# APPENDIX A

## Species Profiles for Wildlife

ARCADIS Design & Consultancy for natural and built assets

Pharmacia LLC and Solutia Inc.

# BASELINE ECOLOGICAL RISK ASSESSMENT FOR OPERABLE UNIT 4

## Appendix A - Species Profiles for Wildlife

Anniston PCB Site, Anniston, Alabama

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# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| ADCNR | Alabama Department of Conservation and Natural Resources |
| AE | assessment endpoint |
| Arcadis | Arcadis U.S., Inc. |
| AWCA | Alabama Wildbird Conservation Association |
| BERA | Baseline Ecological Risk Assessment |
| BBL | Blasland, Bouck & Lee, Inc. |
| cm | centimeters |
| Cornell | Cornell Lab of Ornithology |
| EAV | emergent aquatic vegetation |
| ESR | Ecological Survey Report |
| IDNR | Indiana Department of Natural Resources |
| km | kilometers |
| OU-4 | Operable Unit 4 |
| PCB | polychlorinated biphenyl |
| TAMS | TAMS Consultants, Inc. |
| USEPA | United States Environmental Protection Agency |

# 1 INTRODUCTION

This appendix to the *Baseline Ecological Risk Assessment for Operable Unit 4* (OU-4 BERA) describes profiles for wildlife selected as representative receptors for Operable Unit 4 (OU-4) of the Anniston Polychlorinated Biphenyl (PCB) Site. OU-4 is the most geographically expansive of the three operable units delineated at the Anniston PCB Site. It encompasses the majority of potentially suitable habitat for ecological receptors and includes a variety of distinct habitats. It also includes a number of areas that have been substantially impacted by urbanization, agriculture/grazing, and other human activities.

Several ecological investigations were performed in OU-4 between 1996 and 2009, including habitat assessments and ecological surveys of vegetation, benthic macroinvertebrates, fish, reptiles, amphibians, birds, and mammals. These data were collected to meet a variety of specific objectives, but all were collected to support ecological risk assessment activities for OU-4. Details of each study and the resulting data are presented in the *Preliminary Site Characterization Summary Report* (ENVIRON 2014) and *OU-4 Phase I Ecological Survey Report* (ESR; Arcadis Blasland, Bouck & Lee, Inc. [Arcadis BBL] 2007).

The information collected during these studies was used along with input from the United States Environmental Protection Agency (USEPA) to select assessment endpoints (AEs) for the OU-4 BERA. The AEs identify the specific classes of species that may be present within the system and require protection. Because it is not practical to assess all species within a particular class, it is necessary to select representative receptors for many of the AEs. Specifically, representative receptors are required to evaluate the AEs for the protection of birds and mammals. Table 2-16 in the OU-4 BERA summarizes the selected AEs and each representative receptor. The following sections provide the natural history information and supporting rationale for the selection of each of the representative receptors evaluated in the OU-4 BERA for aquatic, terrestrial, and mixed habitats.

# 2 AQUATIC RECEPTORS

This section presents species profiles for representative aquatic avian and mammalian receptors in OU-4. These species were selected to represent the geographic region and aquatic habitat available in OU-4. Five general aquatic habitat types were identified in habitat studies: riffle, run, emergent aquatic vegetation (EAV), depositional, and backwater. In-stream habitat observations were dominated by riffles and EAV. The majority of both the riffle areas and EAV occur in the middle reaches of Choccolocco Creek, followed by the upper reaches. (See Figures 2-1a through 2-1k in the OU-4 BERA for maps of habitat in the Choccolocco Creek reaches.)

Aquatic bird and mammal surveys were conducted in OU-4 in fall 2006 and winter, spring, and summer 2007. A full list of observations is provided in the ESR (Arcadis BBL 2007).

## 2.1 Aquatic Birds

Representative aquatic avian receptors selected for the OU-4 BERA include tree swallow (*Tachycineta bicolor)*, spotted sandpiper (*Actitis macularia*), belted kingfisher (*Ceryle alcyon*), great blue heron (*Ardea herodias*), and American osprey (*Pandion haliaetus*). The species profiles are discussed below.

### 2.1.1 Tree Swallow

For the OU-4 BERA, the tree swallow was selected as a representative receptor for aquatic aerial-feeding insectivorous birds residing and foraging along the banks of Choccolocco Creek (in-stream areas) and in the riparian corridor (operationally defined for the OU-4 BERA as approximately 100 feet from each side of the creek). The tree swallow is a small insectivorous bird found in northern and central North America. Tree swallows have a slender body form, long pointed wings, a squared or slightly notched tail, with blue to brown plumage above and white below. They have a length of approximately 12 to 15 centimeters (cm) and a wingspan of 30 to 35 cm (Cornell Lab of Ornithology [Cornell] 2013a).

During 2006/2007 avian surveys conducted in OU-4 (Arcadis BBL 2007), tree swallows were observed from ground transects in successional field habitat in the summer of 2007 (Table A-1). Other birds in a similar guild (aquatic aerial-feeding insectivore) were also observed within OU-4, including Eastern phoebe (*Sayornis phoebe*), killdeer (*Charadrius vociferous*), and northern rough-winged swallow (*Stelgidopteryx serripennis*).

#### 2.1.1.1 Habitat

Tree swallows are found in open spaces during foraging, and nest in cavities (e.g., dead trees, artificial nest boxes). They prefer habitats of open water in fields, marshes, meadows, shorelines, beaver ponds, and wooded swamps (Robertson et al. 1992; as cited in Roof and Harris 2001). Habitats used for breeding are similar to habitats used during the non-breeding season (Cornell 2013a).

In OU-4, tree swallows were observed in areas where the dominant vegetation consisted of box elder (*Acer negundo*), sweetgum (*Liquidambar styraciflua*), sycamore (*Platanus occidentalis)*, water oak (*Quercus nigra*), black willow (*Salix nigra*), and Chinese privet (*Ligustrum sinense)*.

#### 2.1.1.2 Home Range and Territoriality

Tree swallows are summer residents in Alabama (Alabama Wildbird Conservation Association [AWCA] 2014) and tend to spend the winter months in the extreme southeastern United States and Gulf of Mexico coastline (primarily Florida), and along the Caribbean coast of Central America (Robertson et al. 1992). They migrate soon after breeding season in July and August. Home ranges depend on geographic area, habitat, and prey abundance. Tree swallows are social birds, reaching densities of up to 150 pairs per 0.7 acre (DeGraaf and Yamasaki 2001). They are diurnal and congregate in large flocks to roost in the evening when not breeding (Forbush 1929). They are not usually territorial, but both sexes will typically defend a nest site up to an area of approximately 30 to 50 feet surrounding their nest (Robertson et al. 1992; DeGraaf and Yamasaki 2001).

For the tree swallow, there are a number of home ranges in the literature. Poole and Gill (1992) provide a nesting territory of 0.74 acre; Stapleton and Robertson (2006) provide a home range of 225 meters (post-laying for females); and McCarty and Winkler (1999) provide a foraging territory of 0.1 kilometers (km), which was used in the Hudson River BERA (TAMS Consultants, Inc. [TAMS] 2000). Because tree swallows feed on aquatic prey that is typically close to a river, the tree swallow is evaluated in the OU-4 BERA using an exposure area based on stream kilometers to conservatively and appropriately represent their foraging area.

#### 2.1.1.3 Reproductive Activities

The breeding season for tree swallows takes place between May and September (Robertson et al. 1992; as cited in Roof and Harris 2001). The highest breeding densities of tree swallows occur in the northeast and Great Lakes region. Tree swallow pairs are generally monogamous during the breeding season (Baicich and Harrison 1997).

Nests are prepared mainly by females from grass woven into a cup with other items (e.g., feathers, quills) interwoven into the cup to form overhanging walls. Clutch size is between two and eight eggs and incubation lasts 13 to 16 days. Young fledge after 15 to 25 days (DeGraaf and Yamasaki 2001). Both parents share responsibilities of feeding the chicks up to when they fledge and at least three days after (Robertson et al. 1992; as cited in Roof and Harris 2001). Tree swallows live an average of 2.7 years and up to 8 years (Butler 1988).

#### 2.1.1.4 Food Habits

Tree swallows forage primarily by pursuing flying insects (e.g., flies, stoneflies, mayflies, caddisflies, and grasshoppers) at an elevation between 0 and 40 feet above ground, but will also glean insects from the surface of water (Robertson et al. 1992; as cited in Roof and Harris 2001). They may also feed on vegetation (which can be up to 20% of the diet) including bulrushes, bayberries, and other seeds. (Robertson et al.1992; as cited in Roof and Harris 2001).

The tree swallow represents avian aerial-feeding insectivorous species, and a diet of 100% emergent/flying insects was assumed in the OU-4 BERA.

#### 2.1.1.5 Predation

House sparrows (*Passer domesticus*), European starlings (*Sturnus vulgaris*), and house wrens (*Troglodytes aedon*) will destroy tree swallow nests and eggs while competing for nesting cavities. Nests can also be raided by mammals other bird species (e.g., raccoons [*Procyon lotor*], deer mice [Peromyscus], house cats [*Felis catus*], American kestrels [*Falco sparverius*], and American crows [*Corvus brachyrhynchos*]) searching for eggs and nestlings. Adult swallows can be prey for hawk (Accipiter) and falcon (Falco) species (Rendell and Robertson 1990).

#### 2.1.1.6 Economic Importance

Tree swallows eat many kinds of insects that humans may consider to be pests (Roof and Harris 2001). No negative impacts to humans are known.

### 2.1.2 Spotted Sandpiper

The spotted sandpiper was selected as a representative receptor for aquatic ground-feeding invertivorous birds residing and foraging in the banks of Choccolocco Creek and in the riparian corridor because exposure data are available for this representative species. Although the spotted sandpiper was not observed within OU-4, other birds in a similar guild (aquatic ground-feeding invertivore) were observed within OU-4 including greater yellowlegs (*Tringa melanoleuca*) and killdeer (Arcadis BBL 2007).

The spotted sandpiper is a small shorebird that frequents shorelines, shallow water (1 to 3 inches), and upland areas adjacent to water bodies. Oring et al. (1997) reported that spotted sandpipers are opportunistic and consume a wide variety of invertebrate prey occurring in these transitional areas. They are medium-sized birds with moderately long legs and bills. They can be identified in flight by a thin white stripe along the wing. They have a white breast (containing dark spots during breeding) and a grayish brown to dark brown back depending on the season. They are approximately 18 to 20 cm long with a wingspan of 37 to 40 cm (Cornell 2013b).

#### 2.1.2.1 Habitat

The spotted sandpiper is found in open areas along the edges of water bodies (rivers, streams, and sea coasts). For breeding, they require a shoreline, a semi-open area for nests, and patches of dense vegetation for sheltering chicks (Cornell 2013a).

The aquatic habitat available in OU-4 provides potential foraging opportunities for sandpipers (e.g., open areas along the creek). They may also stray into meadows and fields (Bent 1929). Killdeer, another species of ground-foraging wading birds, was observed in the spring of 2007 during aquatic surveys.

#### 2.1.2.2 Home Range and Territoriality

Spotted sandpipers are winter visitors in Alabama (AWCA 2014) migrating alone or in small flocks, generally spending the winter in southern United States to northern South America (Oring and Lank 1986; as cited in USEPA 1993). They breed across North America, from the northern Arctic to the southern United States.

Spotted sandpiper density data are limited, but one study found densities of four to 13 females per hectare and seven to 20 males per hectare (Oring et al. 1983; as cited in USEPA 1993). They are territorial during breeding season and winter, with females and males independently defending territories (Oring et al. 1997). Mean territory size is approximately 0.25 hectare (Maxson and Oring 1980).

For the spotted sandpiper, a study by Hays (1972; as cited in Zeiner et al. 1990) concluded the female spotted sandpipers home range was between 2.5 and 8 acres. Miller and Miller (1948; as cited in Zeiner et al. 1990) looked at nesting of the spotted sandpiper in Michigan and found a home range of 12 acres. The range of 8 acres from Hays (1972; as cited in Zeiner et al. 1990) is a central value of those identified.

#### 2.1.2.3 Reproductive Activities

Spotted sandpipers breed between May and August. They are sometimes polyandrous (one female to multiple males), and males provide most of the incubation and parental responsibilities. Females can lay several clutches per year of four eggs in each clutch. Incubation lasts approximately 21 days, but decreases in time later in the season (Maxson and Oring 1980). Young feed themselves immediately after hatching and can fly after approximately 18 days (Oring and Lank 1986; Maxson and Oring 1980; Oring et al. 1997). One sandpiper was known to live at least 12 years; however, most do not live nearly that long (Oring et al. 1997).

#### 2.1.2.4 Food Habits

Spotted sandpipers are diurnal, feeding along shorelines or further inland sometimes into meadows, fields, and gardens in agricultural areas (Bent 1929; Oring et al. 1983). They walk in meandering paths and dart at prey (Cornell 2013a). Feeding movements can also be described as probing or jabbing (Holmes 1966). The majority of their diet is comprised of flying insects, but they may also consume crustaceans (Crustacea), leeches (Hirudinea), mollusks (Mollusca), small fish, and carrion (Oring et al. 1983). Oring et al. (1997) reported that spotted sandpipers are opportunistic and consume a wide variety of invertebrate prey occurring in these transitional areas. Bent (1929), Nelson (1939), and Cramp and Simmons (1983) report that spotted sandpipers are known to eat house and stable flies (Diptera); grasshoppers, crickets, and mole crickets (Orthoptera); beetles (Coleoptera); caterpillars (Lepidoptera); worms (Annelida); mollusks and crustaceans; fish; and spiders.

The spotted sandpiper can be considered an aquatic-dependent insectivore with a diet consisting of aquatic insects—mainly midges and mayflies—and therefore for the OU-4 BERA, the spotted sandpiper represents avian aquatic ground-feeding invertivorous species. However, based on information above regarding the variety of habitats that can be used by spotted sandpipers for foraging and to ensure conservative exposure estimates for the OU-4 BERA, two dietary scenarios were evaluated: 1) 50% aquatic invertebrates (odonate larvae) and 50% terrestrial invertebrates (earthworms), and 2) 50% aquatic invertebrates (odonate larvae) and 50% benthic invertebrates (oligochaetes).

#### 2.1.2.5 Predation

Spotted sandpiper nests can be disturbed by predators such as mink (*Neovison vison*), river otters (*Lontra canadensis*), weasels (Mustela), gulls (Laridae), hawks, and falcons. Adults can be taken by weasels or a variety of raptors (Moore 2002).

#### 2.1.2.6 Economic Importance

Spotted sandpipers eat a wide variety of insects. It is possible that they help control insects that humans view as pests (Moore 2002).

### 2.1.3 Belted Kingfisher

The belted kingfisher is a medium-sized, stocky, short-legged bird with a large bill and head with a double pointed crest. They are found both inland and in coastal areas throughout most of North America, feeding primarily on fish (USEPA 1993). Belted kingfishers are an average of 32.2 cm tall and have a wingspan of 58.8 cm (Ridgway and Friedman 1914; Sibley and Monroe 1990; Terres 1991).

During 2006/2007 avian surveys conducted in OU-4 (Arcadis BBL 2007), belted kingfisher were observed from ground transects in the forested floodplain habitat in fall 2006 (Table A-2). Belted kingfishers were also observed (or indicators of their presence such as burrows in the banks were observed) in aquatic habitat during boat surveys in fall 2006, winter 2007, spring 2007, and summer 2007 (Arcadis BBL 2007). Other birds in a similar guild (piscivore) were also observed within OU-4, including little blue heron (*Egretta caerulea*), anhinga (*Anhinga anhinga*), and green heron (*Butorides virescens*).

For the OU-4 BERA, the belted kingfisher was selected as a representative piscivorous bird residing and foraging along the banks of Choccolocco Creek.

#### 2.1.3.1 Habitat

Belted kingfishers need clear water bodies for foraging, and will use a variety of water bodies (e.g., ponds, lakes, rivers, streams, reservoirs) (Hamas 1994; DeGraaf and Yamasaki 2001). In addition, they require foraging perches from where they can hunt. Nests are excavated burrows located in banks.

In OU-4, belted kingfishers were observed in areas where the dominant vegetation consisted of box elder, sweetgum, sycamore, water oak, black willow, and Chinese privet. They were also observed in aquatic habitat during boat surveys (Arcadis 2014).

#### 2.1.3.2 Home Range and Territoriality

Kingfishers are common in Alabama (AWCA 2014), breed over most of North America, and winter in most regions of United States (National Geographic Society 1987; as cited in USEPA 1993). Belted kingfishers are solitary except during breeding, where between two and six pairs have been recorded per 10 km of river shoreline (Brooks and Davis 1987; as cited in USEPA 1993).

Nest sites can be up to a mile from foraging territory (DeGraaf and Yamasaki 2001). Both male and female will defend a territory that includes the nest and foraging area, but will only defend individual foraging territories once fall arrives (Davis 1982; as cited in USEPA 1993).

At Lake Itasca in Minnesota, home range for a breeding pair of belted kingfishers ranged from 0.5 to 5.0 linear miles from the nest site (Cornwell 1963; as cited in Hamas 2009). In another study, the size of non-breeding territories, expressed as kilometers of shoreline, ranges from 0.7 to 4.8 km (Davis 1982; Salyer and Lagler 1946; both as cited in USEPA 1993). An average home range of 1.6 km for stream habitat in

Pennsylvania and Ohio (Brooks and Davis 1987; as cited in USEPA 1993) is a central value based on non-breeding territory and was also the value used in the Hudson River BERA (TAMS 2000).

#### 2.1.3.3 Reproductive Activities

Male kingfishers establish breeding territories to attract a mate, and aggressively defend the territory once a pair bond is formed. Females lay five to seven eggs in a clutch, and both males and females are responsible for incubating and feeding young (Bent 1940; as cited in USEPA 1993). Young remain with the parents for 10 to 15 days after fledging (Salyer and Lagler 1946; as cited in USEPA 1993), and young disperse within a month of fledging (White 1953; as cited in USEPA 1993).

#### 2.1.3.4 Food Habits

Kingfishers feed on fish in shallow water or near the surface of water bodies (Salyer and Lagler 1946; White 1953; and Cornwell 1963; all as cited in USEPA 1993). They hunt by either diving from perches, or hover above the water and swallow the fish whole (Bent 1940; as cited in USEPA 1993).

Because the belted kingfisher primarily eats fish (Kelly et al. 2009), for the OU-4 BERA this receptor represents avian aquatic piscivorous species with a diet consisting 100% of forage fish. However, other studies report that kingfishers can eat roughly 19% of their diet in crayfish and a small proportion of amphibians (Alexander 1977; Salyer and Lagler 1946; and Davis 1982; all as cited by USEPA 1993). Thus, for the belted kingfisher, a second scenario was evaluated that includes crayfish and amphibians in the diet.

#### 2.1.3.5 Predation

Belted kingfisher nests can be targeted by skunks (Mephitidae), mink, raccoons, and snakes (Serpentes). Raptors (e.g., northern harrier [*Circus cyaneus*] and Cooper's hawk [*Accipiter cooperii*]) can be predators of adults and juveniles (Hamas 1994).

#### 2.1.3.6 Economic Importance

Belted kingfishers sometimes prey on fingerlings of fish hatcheries (Hamas 1994; as cited in Schablein 2012).

### 2.1.4 Great Blue Heron

The great blue heron is a common large-sized wading bird (approximately 106 to 132 cm tall) with a long neck and legs, and a spear-like bill. They are found along the margins of both freshwater and saltwater environments throughout the United States and Canada, and feed primarily on aquatic animals (USEPA 1993).

During 2006/2007 avian surveys conducted in OU-4 (Arcadis BBL 2007), great blue heron were observed from ground transects in the maintained and successional field habitat in fall 2006 (Table A-2). Heron were also observed (or indicators of their presence such as tracks were observed) in aquatic habitat during boat surveys in fall 2006, winter 2007, spring 2007, and summer 2007 (Arcadis BBL 2007). Other birds in a

similar guild (wading carnivore) were also observed within OU-4 including great egret (*Ardea alba*) and snowy egret (*Egretta thula*) (Table A-2).

For the OU-4 BERA, the great blue heron was selected as a representative aquatic wading carnivorous bird residing and foraging along the banks of Choccolocco Creek.

#### 2.1.4.1 Habitat

Great blue herons can be found in a variety of aquatic areas where small fish are available (Spendelow and Patton 1988; Short and Cooper 1985; as cited in USEPA 1993). They nest in dense colonies or heronries close to foraging grounds, preferably in tall trees (Bent 1926; Palmer 1962; and Gibbs et al. 1987; as cited in USEPA 1993).

In OU-4, great blue herons were observed in areas where the dominant vegetation consisted of box elder, sweetgum, sycamore, water oak, black willow, and Chinese privet. They were also observed in aquatic habitat during boat surveys (Arcadis 2014).

#### 2.1.4.2 Home Range and Territoriality

Great blue herons are common in Alabama (AWCA 2014), but local population density varies with the availability of foraging and nesting habitat. In the northern portion of the range, most great blue herons migrate to the southern Atlantic and Gulf States, or further south to Cuba and Central and South America (Hancock and Kushlan 1984; as cited in USEPA 1993). Breeding pairs will defend a small territory around the nest (Hancock and Kushlan 1984; as cited in USEPA 1993).

There are a number of studies looking at the home ranges of great blue herons. Mathisen and Richards (1978; as cited in USEPA 1993) found the distance between heronries and possible feeding areas to range from 0 to 4.2 km, with an average of 1.8 km in regions near lakes in Minnesota. Parnell and Soots (1978; as cited in USEPA 1993) found that most heronries along the North Carolina coast were located an average of 7 to 8 km away. Dowd and Flake (1985; as cited in USEPA 1993) concluded that the home range of the great blue heron near South Dakota rivers and streams was 3.1 km, which is the central value of the range identified.

#### 2.1.4.3 Reproductive Activities

Males choose the breeding site, and pairs are monogamous during the breeding season. Females lay three to five eggs in one clutch per year and may use the same nest for more than one year. Both parents incubate and feed young (Palmer 1962; as cited in USEPA 1993). Young fledge 50 to 60 days after hatching, and will leave the nest after 60 to 91 days (Butler 1992; DeGraaf and Yamasaki 2001). The average lifespan for a great blue heron is approximately 15 years (Naumann 2002).

#### 2.1.4.4 Food Habits

Great blue herons eat fish primarily, as well as amphibians, reptiles, crustaceans, insects, birds, and mammals (Alexander 1977; Bent 1926; Hoffman 1978; Kirkpatrick 1940; and Peifer 1979; all as cited in USEPA 1993). They hunt by either waiting for fish to swim close enough to strike, or slowly wading to catch slower moving prey.

For the OU-4 BERA, a study by Alexander (1977; as cited in USEPA 1993) was used to develop the great blue herons dietary scenario appropriate for a riverine habitat, which includes primarily fish and a small portion of crayfish, amphibians, and small mammals.

#### 2.1.4.5 Predation

Great blue heron eggs can be targeted by predators such as crows and ravens (Corvus), and juveniles can be eaten by eagles (Accipitridae), raccoons, bears (Ursidae), turkey vultures (*Cathartes aura*), and red-tailed hawks (*Buteo jamaicensis*) (Naumann 2002).

#### 2.1.4.6 Economic Importance

People who create and stock fish ponds may find that their expensive fish are being eaten by great blue herons. This can be prevented by installing bird netting or using decoy herons to scare birds away (Naumann 2002).

### 2.1.5 American Osprey

The American osprey is a large bird of prey (average of 56 cm long [USEPA 1993]) with long narrow wings, a sharp hooked bill, and powerful talons. They are found near freshwater or saltwater, feeding almost exclusively on fish. In the United States, there are regional populations on the Atlantic coast, Florida and gulf coast, Pacific Northwest, western interior, and Great Lakes (Henny 1983; as cited in USEPA 1993).

During 2006/2007 avian surveys conducted in OU-4 (Arcadis BBL 2007), an osprey was observed in the stream canopy from boat transects in the summer 2007 (Table A-2). The barred owl (*Strix varia*) observed within OU-4 (Table A-1) can also consume fish as part of their diet.

For the OU-4 BERA, the American osprey was selected as a representative piscivorous bird residing and foraging in the banks of Choccolocco Creek.

#### 2.1.5.1 Habitat

American osprey are found in marine environments, rivers, lakes, and reservoirs (Henny 1986 and 1988; as cited in USEPA 1993). They will nest in tops of isolated trees or man-made structures near open water where fish are available (Poole 1989; as cited in USEPA 1993).

In OU-4, American osprey was observed in the stream canopy from boat transects in the summer 2007 (A-2). The presence of trees lining the stream bank provides foraging and nesting habitat for osprey.

#### 2.1.5.2 Home Range and Territoriality

Osprey are common in Alabama (AWCA 2014). Ospreys are migratory, except for the most southern portions of their range; adults and juveniles from eastern and central United States fly south across open water to Central and South America (Poole 1989; as cited in USEPA 1993). Density of individuals can be variable, ranging from 1.9 nests per hectare (Henny 1988; cited in USEPA 1993) to 0.005 to 0.1 nests per hectare (Henny and Noltemeier 1975; as cited in USEPA 1993).

Osprey may nest in loose colonies as close as 160 feet apart, unless there is low prey abundance, and they will nest in solitary locations six or more miles apart (Rattner et al. 2001). Prey abundance determines the distance they will travel to obtain food during breeding season, which may be up to 10 to 15 km (Van Daele and Van Daele 1982). They are not territorial of an area around the nest, but will defend the nest site (Poole 1989).

Home ranges for the osprey range from 0.7 to 15 km. Dunstan (1973; as cited in USEPA 1993) studied ospreys near lakes in Minnesota and found home ranges that varied from 0.7 to 2.7 km, with an average home range of 1.7 km. Koplin (1981; as cited in USEPA 1993) studied coastal osprey populations in northwest California and found home ranges from 3 to 8 km. Van Daele and Van Daele (1982; as cited in USEPA 1993) found foraging ranges of 10 km near the Cascade Reservoir near Long Valley, Idaho. The foraging range of 3 to 8 km is the central value of the home range values identified for ospreys.

#### 2.1.5.3 Reproductive Activities

Ospreys are monogamous year after year, and females are responsible for incubating, while males are responsible for providing food (Poole 1989; as cited in USEPA 1993). Ospreys will use the same nest for more than one year. Non-migratory ospreys will breed in the winter, and migratory ospreys will breed in the summer. Clutches are generally two to three eggs, incubating for 37 to 38 days (Newton 1979). Young fledge around 60 to 65 days (non-migratory populations) and 50 to 55 days (migratory populations) (Henny et al. 1991; as cited in USEPA 1993), typically leaving the nest after an additional two to three weeks (Poole 1989; as cited in USEPA 1993). Ospreys can live a relatively long life, the oldest known male was 25 years old and oldest female was 23 years old; however, most will not live that long (Poole et al. 2002).

#### 2.1.5.4 Food Habits

The American osprey diet consists completely of fish (Greene et al. 1983; Hughes 1983; Collopy 1984; and Van Daele and Van Daele 1982; all as cited by USEPA 1993), but they will occasionally eat other prey items such as birds, frogs, and crustaceans (Brown and Amadon 1968; as cited in USEPA 1993). They prefer to hunt slow-moving fish in shallow waters and near the surface (Poole 1989; as cited in USEPA 1993). They will travel up to 10 to 15 km to obtain food (Van Daele and Van Daele 1982; as cited in USEPA 1993). Approximately 3% of their diet consists of fish smaller than 10 cm, 42% of their diet consists of fish 11 to 20 cm, 47% of their diet consists of fish 21 to 30 cm, and 7% of their diet consists of fish 31 to 40 cm in length (Van Daele and Van Daele 1982; as cited in USEPA 1993).

The American osprey represents avian piscivore and a diet consisting of 100% fish (ranging in size from 11 to 40 cm) was assumed in the OU-4 BERA.

#### 2.1.5.5 Predation

Predators of osprey nests can be aerial species such as great horned owls (*Bubo virginianus*) and bald eagles (*Haliaeetus leucocephalus*), as well as raccoons, snakes, and other climbing animals (Poole 1989; as cited in Watkins 2000).

#### 2.1.5.6 Economic Importance

Ospreys may be a valuable indicator species for monitoring the long-term health of large rivers, bays, and estuaries because of their piscivorous lifestyle and their known sensitivity to many contaminants. They can be studied relatively easy because they have conspicuous nests and are tolerant of short-term disturbance such as nest observations by researchers (Watkins 2000).

## 2.2 Aquatic Mammals

The representative mammalian receptors selected for the OU-4 BERA include little brown bat (*Myotis lucifugus*), mink, raccoon, and river otter. The species profiles are presented below.

### 2.2.1 Little Brown Bat

The little brown bat is a primarily nocturnal insectivorous mammal weighing between 5 and 14 grams with glossy fur and varies in color from dark brown, golden brown, red, and olive brown. They are abundant across the United States, southern Alaska, Canada, and higher elevation forested regions of Mexico (Havens 2006).

Although the little brown bat has not been observed within OU-4 to date, suitable habitat exists in OU-4 that could support bat species that roost in trees.

For the OU-4 BERA, the little brown bat was selected as a representative receptor for aquatic aerial-feeding insectivore mammal residing and foraging in the banks of Choccolocco Creek and the in the riparian corridor.

#### 2.2.1.1 Habitat

Little brown bats can be found in forested areas near water or in dry climates where they can drink water from moisture on cave walls or condensation on their fur. They have separate day, night, and hibernation roosts, which can be locations such as buildings, trees, under rocks, and piles of wood that provide little to no light during the day and stable ambient temperatures. Large concentrations will cluster together to increase the temperature in the roost. Day and night roosts are used in the summer, spring, and fall. Hibernation roosts are only used during the winter months (Havens 2006).

Based on the habitat description above, the forested floodplain provides potential habitat for bats. Bats were not observed during ecological surveys (conducted during daylight hours), but because they are primarily nocturnal, they would likely be more active and more easily observed at night.

#### 2.2.1.2 Home Range and Territoriality

Little brown bats do not make long migrations during season change (Wilson and Ruff 1999; Fenton and Barclay 1980; Koopman and Gudmundsson 1966; Nowak 1994; as cited in Havens 2006), traveling only up to 100 miles. They are not territorial of their roosts or feeding sites, and will travel several kilometers between day roosts and feeding sites (Nowak 1994; as cited in Havens 2006). If they have had success at a particular feeding site, they tend to return to the same location (Havens 2006).

There are relatively few data on the home range for little brown bats. Henry et al. (2002) concluded that female little brown bats have an average home range size of 74 acres, and that size decreases to 42 acres once they have young. Based on a study of a nursing colony and solitary males near Millbrook, New York, which flew through mixed deciduous forests to feed near a pond (Buchler 1976), a home range of 0.1 km was used in the Hudson River BERA (TAMS 2000). The Henry et al. (2002) value of 42 acres is the central value for the range of values identified for the little brown bat.

#### 2.2.1.3 Reproductive Activities

Little brown bat mating is random and both females and males mate with multiple partners. One litter is born per year. Pups are born in June/July after 50 to 60 days of gestation, and within hours of birth the pups eyes and ears are open and teeth are erupted. Females and young will use nursery roosts, returning to the same colony each year (Havens 2006). Auditory sensitivity of pups is similar to adults by day 13, and young can fly within three weeks (Havens 2006). Within four weeks, pups will be self-supporting. Little brown bats can live an average of six to seven years, up to more than 10 years, with males living longer than females (Fenton and Barclay 1980; Nowak 1994).

#### 2.2.1.4 Food Habits

Little brown bats are insectivores, catching prey through aerial hawking and gleaning by using FM echolocation. Their diet consists solely of flying insects (Belwood and Fenton 1976; as cited in Sample and Suter 1994).

The little brown bat represents mammalian aerial-feeding insectivorous species and a diet consisting of 100% emergent and flying insects was assumed in the OU-4 BERA.

#### 2.2.1.5 Predation

When bats roost close to human habitations, domestic cats are potential predators. Martens (Martes), fishers (*Martes pennanti*), mice (Mus), owls (Strigiformes), hawks, snakes, and raccoons are also predators of little brown bats (Fenton and Barclay 1980; Griffin 1958; as cited in Havens 2006).

#### 2.2.1.6 Economic Importance

Research for the little brown bat is plentiful and provides scientists with a bat model to test and study many aspects of the order, including echolocation, social behavior, feeding, and habitat use. They eat pests in agricultural areas that transmit diseases and eat crops, as well as around human habitats (Barbour and Davis 1969; Wilson and Ruff 1999; as cited in Havens 2006).

Little brown bats can negatively impact humans by inhabiting attics, roofs, trees, and other areas in close proximity to humans. They can carry and transmit parasites such as tapeworms, fleas, mites, and bed bugs (Fenton and Barclay 1980; as cited in Havens 2006).

### 2.2.2 Mink

Mink are nocturnal piscivorous mammals with long slender bodies and short legs, with an average length of 33 to 43 cm (males) and 30 to 36 cm (females) (Burt and Grossenheider 1980). They can live in

terrestrial areas or near lakes and streams. Mink are abundant and found across North America except in extremely arid regions of the southwest United States and Mexico and extreme northern regions of Canada (USEPA 1993).

During 2006/2007 aquatic surveys (Arcadis BBL 2007), evidence of mink was observed in depositional areas and bank habitat in the fall 2006, winter 2007, spring 2007, and summer 2007 (Table A-3).

For the OU-4 BERA, the mink was selected as a representative piscivorous mammal receptor residing and foraging in the banks of Choccolocco Creek.

#### 2.2.2.1 Habitat

Mink are semi-aquatic mammals, and may be found along streams, rivers, lakes, ponds, and marshes. They prefer habitat with irregular shorelines (Allen 1986; as cited in USEPA 1993), and can also be found in upland areas as long as there is adequate cover and prey (DeGraaf and Yamasaki 2001).

#### 2.2.2.2 Home Range and Territoriality

The home range of mink encompasses foraging areas, surrounding waterways, and dens (USEPA 1993). They dig burrows in banks of rivers, lakes, and streams, and will use old dens of other mammals. Mink may use more than one den within their home range (Birks and Linn 1982; as cited in USEPA 1993). The shape of home ranges near riverine habitats is generally linear, while those in marsh habitats are more circular (Birks and Linn 1982; Eagle and Whitman 1987; as cited in USEPA 1993).

Mink are solitary except during the breeding season. The density of mink populations depends on food and habitat availability, and can range from 0.006 mink per hectare (Marshall 1936) to 0.085 mink per hectare (Mitchell 1961; both as cited in USEPA 1993). Mink males are intolerant of one another, and will mark boundaries of their home range. Male mink have larger home ranges than females (Eagle and Whitman 1987; as cited in USEPA 1993).

Gerell (1970; as cited in USEPA 1993) studied mink in a stream in Sweden, and Mitchell (1961; as cited in USEPA 1993) studied mink in a Montana riverine habitat. The Hudson River BERA (TAMS 2000) used these studies as a basis in determining 1.9 km as the home range for female mink and a home range of 3.4 km for male mink. Based on information from the literature, 2.15 km is a conservative estimate of the central value for the home ranges identified for mink.

#### 2.2.2.3 Reproductive Activity

The breeding season begins in late winter continuing through early spring, dependent on the climate where mink are located (Eagle and Whitman 1987; Linscombe et al. 1982; as cited in USEPA 1993). Mink are only capable of producing one litter per year, with an average size between one and eight (Chapman and Feldhamer 1982; as cited in Schlimme 2003). The mink's reproductive cycle is unique. After the egg is fertilized, the embryo goes dormant (Hansson 1947). The length of this dormancy depends on the amount of daylight during a 24-hour period (Holcomb 1963). Therefore, the total gestation period varies from 39 to 76 days. Only 30 to 32 days are needed for full development of the fetus (Enders 1952). Females are solely responsible for raising the young (Baker 1983). Young are able to catch their own prey 42 to 56

days after birth. In August, the young disperse because they no longer need maternal care (Baker 1983). The life expectancy of mink is three to four years (Baker 1983).

#### 2.2.2.4 Food Habits

Mink are carnivorous, but may consume some plant material from time to time (Baker 1983). They are opportunistic in food selection, and will take what is available (Hamilton 1936 and 1940; Errington 1954; and Sargeant et al. 1973; as cited in USEPA 1993). They are skilled swimmers and climbers – when searching for food they can swim up to 30 meters underwater and dive to depths of 5 meters (Kurta 1995; as cited in Schlimme 2003). Primary terrestrial food items include shrews (Soricidae), moles (Talpidae), squirrels (Sciuridae), mice, rats (Rattus), bats (Chiroptera), rabbits (*Lepus curpaeums*), voles (*Microtus pennsylvanicus*), and muskrats (*Ondatra zibethicus*). In the winter, the primary food choice of the mink is either muskrat or rabbit (Baker 1983).

Mink commonly consumes forage fish ranging from 7 to 20 cm (USEPA 2003) and some amphibians, aquatic invertebrates, as well as mammals and birds; therefore, for the OU-4 BERA, two dietary scenarios were evaluated for this receptor representing the mammalian aquatic piscivorous species. One scenario was based on riverine habitat and includes a higher percentage of fish in the diet (Alexander 1977; as cited by USEPA 1993), and one that includes a mink diet with a higher relative proportion of mammals and birds (Korschgen 1958; as cited in USEPA 1993).

#### 2.2.2.5 Predation

Humans are the main predator of mink through hunting and trapping. Other natural predators include species such as great horned owls, coyotes (*Canis latrans*), red fox (*Vulpes vulpes*), and bobcats (*Lynx rufus*) (Lariviere 1999).

#### 2.2.2.6 Economic Importance

Mink have been commercially raised for their pelts since the mid-1900s (Chapman and Feldhamer 1982; as cited in Schlimme 2003). This has helped alleviate hunting and trapping pressures on wild mink, which was under severe strain (Baker 1983). However, mink pelts are still highly valued. In 1969, mink pelts sold for $12 each. By 1980 they were selling for $30 each (Baker 1983), and have reached prices as high as $120-180 per pelt during a peak in 2013 (O'Connell 2014). With such trends, it is expected that mink furs will continue to be valued. The fur market is subject to highs and lows that are influenced by fashion trends, excise taxes, imports, and synthetic furs (Baker 1983).

### 2.2.3 Raccoon

Raccoons are medium sized omnivores (an average of 46 to 71 cm) found commonly throughout much of North America and Central America. They are found near aquatic habitats, and are also common in suburban residential areas (USEPA 1993).

During 2006/2007 terrestrial surveys conducted in OU-4 (Arcadis BBL 2007), raccoon were observed from ground transects in the forested floodplain habitat in winter and spring 2007 (Tables A-3 and A-4). Evidence of raccoon was also observed at numerous locations and habitats during aquatic surveys during fall 2006 and winter, spring, and summer 2007 in the depositional ban, riffle, run, mud flat, and backwater

habitat (Arcadis BBL 2007). Other mammals in a similar guild (omnivore) were also observed within OU-4 including armadillo (*Dasypus novemcinctus*) and rice rat (*Oryzomys palustris*) (Arcadis BBL 2007).

For the OU-4 BERA, the raccoon was selected as a representative terrestrial omnivorous mammal residing and foraging in the floodplain areas of OU-4 and a representative aquatic omnivorous mammal residing and foraging in the banks of Choccolocco Creek.

#### 2.2.3.1 Habitat

Raccoons are found near almost every aquatic habitat and are also common in residential areas and cultivated and abandoned farmlands (Kaufmann 1982; as cited in USEPA 1993). They may forage in farmyards (Greenwood 1982; as cited in USEPA 1993), near and in surface water (Stuewer 1943; as cited in USEPA 1993), and will commonly raid garbage cans and dumps in residential areas.

In OU-4, raccoons were observed from ground transects in the forested floodplain habitat in winter and spring 2007 as well as in aquatic areas. The dominant species in the floodplain consisted of box elder, sweetgum, sycamore, water oak, black willow, and Chinese privet (Arcadis 2014).

#### 2.2.3.2 Home Range and Territoriality

The home range size of a raccoon is variable, ranging from a few hectares to a few thousand hectares, but males tend to have larger ranges than females (Sanderson 1987). Raccoons are mainly solitary with the exception of mating season in March to June in the southern range (Johnson 1970; Sanderson 1987; as cited in USEPA 1993). Population density depends on the food available and quality of habitat, and averages 0.1 to 0.2 individuals per hectare (USEPA 1993). Males are territorial towards other males (not towards females), and females are not territorial (Fritzell 1978), and as a result, home ranges of males and females may overlap (Mech et al. 1966; Johnson 1970; Kaufmann 1982; Stuewer 1943).

Fritzell (1978; as cited in USEPA 1993) concluded that home ranges of raccoons studied in North Dakota could range from 1,654 acres to 12,217 acres. The Hudson River BERA (TAMS 2000) cites a home range of 48 acres based on the information in Urban (1970), which looks at raccoons near a waterfowl marsh in Lake Erie. An additional study by Prange et al. (2004) identified a home range of 270 acres for raccoons in urban, suburban, and rural areas of Illinois, which was selected as the central value for home ranges for raccoons.

#### 2.2.3.3 Reproductive Activities

Males may mate with several females during the breeding season (Mech et al. 1966; Johnson 1970; Kaufmann 1982; Stuewer 1943; as cited in USEPA 1993). They typically have one litter per year ranging from three to seven young. Gestation lasts 63 to 65 days. Young are blind and helpless until their eyes open after 18 to 24 days, and are weaned after 70 days. Young will forage with the mother by 20 weeks of age, staying with her through the spring of the following year (Nowak 1991, Wilson and Ruff 1999; as cited in Fox 2001). Raccoons live an average of five years (Nowak 1991).

#### 2.2.3.4 Food Habits

Raccoons are omnivorous and opportunistic feeders, and will change their activity to accommodate availability of food and water (Sanderson 1987), even though they are primarily active from sunset to sunrise (Kaufmann 1982; Stuewer 1943). They feed primarily on fleshy fruits, nuts, acorns, and corn (Kaufmann 1982), as well as grains, insects, frogs, or any available animal or vegetable matter (Palmer and Fowler 1975).

The raccoon represents mammalian omnivorous species in the floodplains and in the banks of the creek and a diet consisting of a mix of invertebrates, plants, mammals/birds, fish, and reptiles/amphibians was assumed in the OU-4 BERA.

#### 2.2.3.5 Predation

Raccoons are generally inactive during the day, and therefore escape many predators while in their dens. When active, they are aggressive. They are preyed on by large mammals such as coyotes, wolves, large hawks, and owls (Fox 2001).

#### 2.2.3.6 Economic Importance

Raccoon pelts have been harvested since the colonial period. During the 1920s, coats were popular making a pelt worth about $14. Although demand is no longer as high, raccoon pelts may still be sold as imitation mink, otter, or seal fur (Nowak 1991; as cited in Fox 2001).

### 2.2.4 River Otter

River otters are members of the weasel family and have long slender bodies and short legs, with a tail that is roughly one third of its body length (Whitaker and Hamilton 1998). They are an average of 66 to 76 cm long (USEPA 1993) and are found along coastal United States and Canada, feeding primarily on fish.

For the OU-4 BERA, the river otter was selected as a representative piscivorous mammal residing and foraging in the banks of Choccolocco Creek.

#### 2.2.4.1 Habitat

River otters can be found in freshwater and brackish habitats (Whitaker and Hamilton 1998). They look for areas with available prey, adequate shelter, and limited human activity, and can change throughout the seasons (Humphrey and Zinn 1982). They build dens in banks and hollow logs (USEPA 1993) and appear to prefer flowing water habitats over stationary water (Melquist and Hornocker 1983).

Based on the habitat description above and their preference for moving water, the aquatic habitat within OU-4 (e.g., run and riffle portions of the creek) provides potential habitat for river otter. Otters were not observed during surveys (their behavior tends to be shy and secretive), but burrows were observed in banks along the creek, which could potentially be used by river otter.

#### 2.2.4.2 Home Range and Territoriality

Home ranges encompass foraging and reproduction areas, and may be linear or a polygon shape, depending on whether they are close to a water body or in a marsh, respectively (Melquist and Dronkert 1987). Densities vary between one otter every kilometer to one otter every 10 km of river of shoreline. River otters have distinct territories within their home ranges: females maintain a feeding area for their families, males for breeding purposes (Toweill and Tabor 1982). Inside the home range, they have activity centers in areas with abundant prey and shelter (Melquist and Hornocker 1983). Adult and subadult males have larger, more variable home ranges than females. Home ranges are most restricted for lactating females (Melquist and Dronkert 1987).

Spinola et al. (2008) studied the movements of river otters translocated to the Genessee River in New York. They found that dispersal distance of 22 otters post-release ranged from 1.2 to 54.0 km, with a mean of 12.5 km. They also concluded that the dispersal distance of females was greater than that of males by an average of 8.7 km. The Hudson River BERA (TAMS 2000) used a home range of 10 km for the river otter based on the study by Spinola et al. (2008). Melquist and Hornocker (1983; as cited in USEPA 1993) studied river otters in an Idaho river drainage and found adult female home ranges were between 25 and 50 km. Based on the information available, the home range of 25 km is the central value for the ranges identified for river otters.

#### 2.2.4.3 Reproductive Activities

Male otters may mate with more than one female, and are solitary except for mating. Young are born approximately a year after mating, but gestation takes only two months, as implantation is delayed for 10 months (Pearson and Enders 1944; as cited in USEPA 1993). Each litter is two to three pups, and otters may reproduce yearly (Tabor and Wight 1977) or every other year (Lauhachinda 1978) depending on the region. Young are born blind, fully furred, and depend on the mother for 3 to 5 months (Johnstone 1978; Liers 1951; as cited in USEPA 1993). Family groups disperse 3 months after pups are weaned (Melquist and Hornocker 1983; as cited in USEPA 1993). River otters generally live 8 to 9 years in the wild (Ellis 2003).

#### 2.2.4.4 Food Habits

Otters are most active from dawn to midmorning and in the evening. They primarily eat fish, but are also opportunistic feeders, consuming items such as crustaceans, aquatic insects, amphibians, birds, small mammals, and turtles (Burt and Grossenheider 1980; Lagler and Ostenson 1942; Liers 1951; Melquist and Hornocker 1983; Palmer and Fowler 1975; Toweill and Tabor 1982; as cited in USEPA 1993).

River otters consume different fish species according to availability and commonly prey on fish between 5 and 50 cm (Loranger 1981; USEPA 2003). Because the mink is a similar receptor and is being evaluated using multiple diet composition scenarios, it was agreed in discussion with USEPA that the otter would be evaluated as representative piscivorous mammal and consume a diet consisting of 100% fish for the OU-4 BERA.

### 2.2.4.5 Predation

Humans can affect otters through trapping and habitat alteration and pollution. Otters can be taken by coyotes, bobcats, birds of prey, and domestic dogs (Melquist and Hornocker 1983), but can also be successful at escaping predators through their agility in water (Ellis 2003).

### 2.2.4.6 Economic Importance

American river otters are important parts of healthy, aquatic ecosystems. North American river otters have been hunted for many years for their attractive and durable fur. In the 1980s, the average selling price was approximately $18 per pelt. Otters are still an important source of income for many people in Canada and the western United States. They also eat "trash fish" that compete with more economically desirable game fish (Ellis 2003).

# 3 TERRESTRIAL RECEPTORS

This section presents species profiles for representative terrestrial avian and mammalian receptors in OU-4. The general habitat types identified include maintained fields, successional fields, and forested floodplain. Grasses are the dominant vegetation in maintained field; box elder, sweetgum, sycamore, water oak, black willow, and Chinese privet are dominant species in successional fields and forested floodplain.

Terrestrial wildlife surveys were conducted during fall 2001 and spring 2002. Additional surveys conducted in 2006 and 2007 were focused on aquatic species observations, but a number of terrestrial species were also observed along banks. Tables A-1 and A-3 through A-5 of the OU-4 BERA summarize these results. A full list of observations is provided in the ESR (Arcadis BBL 2007).

## 3.1 Birds

Avian receptors include mourning dove (*Zenaida macroura)*, blue jay (*Cyanocitta cristata*), Carolina wren (*Thryothorus ludovicianus*), and red-tailed hawk. The species profiles are discussed below.

### 3.1.1 Mourning Dove

The mourning dove is a medium-sized bird with a relatively small head, small bill, and long, pointed tail (Emiley and Dewey 2013). They eat a variety of seeds, waste grain, fruit and insects, but are primarily herbivores. They can be found throughout the United States and from southern Canada south to Panama (Baskett et al. 1993; Mirarchi and Baskett 1994; U.S. Department of Agriculture 2007; as cited in Emiley and Dewey 2013). Mourning doves in the wild generally live about one and a half years (Baskett et al., 1993; Mirarchi and Baskett 1994; U.S. Department of Agriculture 2007).

During 2006/2007 avian surveys conducted in OU-4, (Arcadis BBL 2007), mourning doves were observed from ground transects in the maintained and successional field habitat in winter and summer 2007. Mourning doves were also observed from the reference areas in forested floodplain and successional field in summer 2007 (Table A-1). Other birds in a similar guild (terrestrial herbivore) were also observed within OU-4 including American goldfinch (*Spinus tristis*), house finch (*Haemorhous mexicanus*), and Northern cardinal (*Cardinalis cardinalis*) (Table A-1).

For the OU-4 BERA, the mourning dove was selected as a representative receptor for terrestrial herbivorous bird residing and foraging in the floodplain.

#### 3.1.1.1 Habitat

Mourning doves are adaptable to a variety of habitats, but are more common to open woodlots and forest edges near fields, and agricultural and suburban areas (Baskett et al. 1993; Mirarchi and Baskett 1994; U.S. Department of Agriculture 2007).

Mourning doves were observed in OU-4 habitat where the dominant species in the maintained field consisted of grasses and the dominant species in the successional field and forested floodplain consisted of box elder, sweetgum, sycamore, water oak, black willow, and Chinese privet.

#### 3.1.1.2 Home Range and Territoriality

Home ranges have been reported ranging from 247 acres for a site in Northern Alabama (Baskett et al. 1993) to 10,600 acres (Poole and Gill 1992). Baskett et al. (1993) reported a range of 1,800 acres based on a study conducted in Alabama and is the central value of the range identified. Mourning doves are found year round in most of the United States, but northern populations may fly over 1000 miles during migration to the south from their breeding grounds. Males do not establish a territory until after mating, but will drive other males away from their display perch prior to breeding (Baskett et al. 1993; Mirarchi and Baskett 1994; U.S. Department of Agriculture 2007).

#### 3.1.1.3 Reproductive Activities

Mourning doves are monogamous during breeding season. Once a female and male form a pair bond, they begin to build a nest shortly after, selected by the male. Females typically lay two eggs, and incubation responsibilities are shared by both male and female, lasting 14 to 15 days. After hatching, the young leave the nest in approximately 15 days, remaining nearby until they are around 30 days old and more accomplished at flying (Basket et al. 1993; Mirarchi and Baskett 1994; U.S. Department of Agriculture 2007).

#### 3.1.1.4 Food Habits

Mourning doves feed on the ground in the open, preferring seeds such as agricultural crops (e.g., corn millet, rye, barley, and oats). If ground food is scarce they may also feed in trees and bushes (Baskett et al. 1993; Mirarchi and Baskett 1994; U.S. Department of Agriculture 2007). They store seeds in an enlargement of the esophagus (i.e., crop), fly to a safe perch, and digest the seeds (Cornell 2013c).

The mourning dove represents herbivorous avian species and a diet of 100% terrestrial plants was assumed in the OU-4 BERA.

#### 3.1.1.5 Predation

Mourning doves are able to escape most predators though flight if aware of their presence, with the exception of peregrine or prairie falcons. They will also try to lure predators away from nests by pretending to be injured (Baskett et al. 1993; Mirarchi and Baskett 1994; U.S. Department of Agriculture 2007).

#### 3.1.1.6 Economic Importance

Mourning doves are the leading game birds in North America, providing recreational hunting trips each year (U.S. Department of Agriculture 2007; as cited in Emiley and Dewey 2013). They can also be a pest to farmers because they eat grain (Baskett et al. 1993; U.S. Department of Agriculture 2007).

### 3.1.2 Blue Jay

The blue jay is a medium-sized omnivorous bright blue bird with a whitish gray belly and chin, and a feather crested head. Total body length can range from 22 to 30 cm (Reilly 1968). They are common in southern Canada and east of the Rocky Mountains in the United States (Frysinger 2001).

During 2006/2007 avian surveys conducted in OU-4 (Arcadis BBL 2007), blue jays were observed in fall 2006 (maintained field, forested floodplain, and successional field), winter 2007 (forested floodplain and successional field), and spring 2007 (successional field). Blue jays were also observed in the reference areas in forested floodplain and successional field in fall 2006, and forested floodplain in spring 2007 (Table A-1). Other birds in a similar guild (terrestrial omnivore) were also observed within OU-4 including brown thrasher (*Toxostoma rufum*), Carolina chickadee (*Poecile carolinensis*), and common grackle (*Quiscalus quiscula*) (Arcadis BBL 2007).

For the OU-4 BERA, the blue jay was selected as a representative terrestrial omnivorous bird residing and foraging in the floodplain.

#### 3.1.2.1 Habitat

Blue jays are found in mixed woodlands as well as suburban areas and city parks (Reilly 1968; as cited in Frysinger 2001).

Observations of the blue jays within OU-4 were in habitats where the dominant species in the maintained field habitat consisted of grasses; dominant species in the forested floodplain and successional field consisted of box elder, sweetgum, sycamore, water oak, black willow, and Chinese privet.

#### 3.1.2.2 Home Range and Territoriality

Blue jays are common in Alabama (AWCA 2014). A home range of 1746 acres was reported in Darley-Hill and Johnson (1981; as cited in Tarvin and Woolfenden 1999). Blue jays are partially migratory, traveling in large flocks in the fall. They are aggressive and will drive other birds away from their territories and nests, even larger birds and mammals such as hawks, falcons, and raccoons (Sanford 1984).

One study provided home range sizes for the upper and lower bound values of 1.3 to 15 acres, respectively (Cox 1984; as cited in Tarvin and Woolfenden 1999). Based on the range in this study, 8.2 acres is an estimated central tendency value for home range size.

#### 3.1.2.3 Reproductive Activities

Blue jays are monogamous, staying with the same partner year after year. Their nests are loose and untidy, comprised on bark, twigs, leaves, and grasses. Females can lay three to six eggs at a time, incubating the eggs for 17 to 18 days. Incubation is primarily the responsibility of the female, but sometimes shared by the male. Both are responsible for feeding the young. Young will fledge after 17 to 21 days, and leave the nest two months after fledging (Zim and Gabrielson 1956; Reilly 1968). Blue jays in the wild generally live to around seven years (Frysinger 2001).

#### 3.1.2.4 Food Habits

Blue jays eat fruit, nuts, seeds, insects, mice, frogs, or other small songbirds and eggs, and will cache food for later use (Reilly 1968).

The blue jay represents omnivorous avian species and a diet consisting primarily of terrestrial plants, with a smaller portion consisting of terrestrial insects and spiders was assumed in the OU-4 BERA.

#### 3.1.2.5 Predation

Blue jays are aggressive and will defend their nests against predators; however, adults are preyed upon by hawks, owls, and falcons; nestlings are preyed upon by squirrels, cats, snakes, crows, other jays, raccoons, opossum (Didelphimorphia), and hawks (Frysinger 2001).

### 3.1.3 Carolina Wren

The Carolina wren is a deep rusty brown small bird with a cinnamon-colored underside, larger when compared to the size of other wrens (Kurpinski 2001). They are ground-foraging insectivores. They are found year round in the southeastern United States from the Atlantic to Texas, Nebraska, Kansas, and Oklahoma, to the north in Michigan, New York, and Massachusetts, and to the south in the northeast corner of Mexico and the Yucatan Peninsula (Cornell 1999; Haggerty and Morton 1995).

During 2006/2007 avian surveys conducted in OU-4 (Arcadis BBL 2007), Carolina wren were observed in fall 2006 (maintained field, forested floodplain, and successional field), winter 2007 (forested floodplain), spring 2007 (forested floodplain and successional field), and summer 2007 (maintained field and forested floodplain). Wrens were also observed in the reference areas in forested floodplain in spring 2007 (Table A-1). Other birds in a similar guild (ground-feeding invertivore) were also observed within OU-4 including American robin (*Turdus migratorius*), black-throated green warbler (*Setophaga virens*), and blue-winged warbler (*Vermivora cyanoptera*) (Table A-1).

For the OU-4 BERA, the Carolina wren was selected as a representative terrestrial ground-feeding invertivorous bird residing and foraging in the floodplain.

#### 3.1.3.1 Habitat

Carolina wrens can be found in many habitats such as brushy clear-cut areas to wooded swamps, preferring moist woodlands (Cornell 1999; Haggerty and Morton 1995). During harsh winters, they look for cover in man-made feeding stations and brush piles.

Observations of the Carolina wren within OU-4 were in habitats where the dominant species in the maintained field consisted of grasses; dominant species in the forested floodplain and successional field consisted of box elder, sweetgum, sycamore, water oak, black willow, and Chinese privet.

#### 3.1.3.2 Home Range and Territoriality

Carolina wrens are found year-round in the southern United States (Cornell 1999; Haggerty and Morton 1995). The average home range for Carolina wren estimated by a study in Alabama was 0.007 square km (Haggerty and Morton 1995). Additional home ranges identified in various literature include 0.42 hectare (based on the marsh wren; Verner 1965), 1.7 hectares (Haggerty and Morton 1975), and 5.4 hectares (Schoener 1968).

#### 3.1.3.3 Reproductive Activities

Carolina wrens are monogamous for multiple years. The male puts on a show to attract a female. They breed between March and October, both male and female working together to build a nest of twigs, grasses weeds, and leaves, which can be in a variety of places such as tree stumps, conifer branches,

overhangs, or mailboxes, to name a few. Females lay three to seven eggs in a clutch, one per day. They can raise up to two or three broods per year. Incubation lasts for 12 to 16 days. The male is responsible for providing food to the female. Chicks leave the nest 12 to 14 days after hatching, becoming independent approximately four weeks after fledging (Kurpinski 2001). The oldest known Carolina wren was 6 years old (Haggerty and Morton 1995).

#### 3.1.3.4 Food Habits

Carolina wrens are insectivores, foraging on the ground by using their bills to search under logs, timber, brush piles, tree bark, and the banks of swamps (Kurpinski 2001). They may also climb tree trunks searching under bark and in crevices.

The Carolina wren represents avian ground-feeding invertivorous species and two dietary scenarios were evaluated in the OU-4 BERA. The first is a diet consisting primarily of earthworms, terrestrial insects (i.e., grasshoppers and crickets), and terrestrial spiders. Because the wren may forage in areas proximal to the aquatic creek areas, the second scenario assumed that the spider portion of the diet was from spiders that were exposed in the aquatic habitats.

#### 3.1.3.5 Predation

There is no documented predation of adults, but it is likely that larger birds are potential predators (e.g., blue jays and hawks). Eggs and nestlings can be targeted by raccoons, rat snakes, squirrels, mink, foxes, and chipmunks (Tamias) (Kurpinski 2001).

### 3.1.4 Red-tailed Hawk

The red-tailed hawk is a moderately large soaring hawk species in the United States, found in most wooded and semiwooded regions of the United States and Canada south of the tundra (USEPA 1993). It is one of the most common *Buteo* species and is approximately 46 cm long (Brown and Amadon 1968; as cited in USEPA 1993). They are active in the daytime and prey on ground-dwelling small mammals.

During 2006/2007 avian surveys conducted in OU-4 (Arcadis BBL 2007), red-tailed hawk were observed in fall 2006 (successional field) and winter 2007 (forested floodplain). Hawks were also observed in the reference areas in forested floodplain in fall 2006 (Table A-1). Red-tailed hawks were observed in aquatic habitat during boat surveys in fall 2006, winter, spring, and summer 2007 (Table A-2). Other birds in a similar guild (terrestrial carnivore) were also observed within OU-4 including barred owl, Cooper's hawk, red-shouldered hawk (*Buteo lineatus*) (Table A-1).

For the OU-4 BERA, the red-tailed hawk was selected as a representative receptor for terrestrial carnivorous bird residing and foraging in the floodplain.

#### 3.1.4.1 Habitat

Red-tailed hawks can be found in a variety of habitats such as woodlands, wetlands, pastures, and prairies (Bohm 1978; Gates 1972; MacLaren et al. 1988; Mader 1978). They build their nests near tops of trees in low-density areas or other structures if trees are scarce (Mader 1978).

Observations of the red-tailed hawk within OU-4 were in habitats where the dominant species in the forested floodplain and successional field consisted of box elder, sweetgum, sycamore, water oak, black willow, and Chinese privet. Red-tailed hawks were observed in aquatic habitat during boat surveys in fall 2006, winter 2007, spring 2007, and summer 2007 (Table A-2).

#### 3.1.4.2 Home Range and Territoriality

Red-tailed hawks are common in Alabama (AWCA 2014). Fitch et al. (1946 as cited in USEPA 1993) studied red-tailed hawks in the California foothills and found an average home range of 148 acres. Andersen and Rongstad (1989; as cited in USEPA 1993) found home ranges of the red-tailed hawk in the Colorado upland prairie to extend to 6,089 acres. Craighead and Craighead (1956; as cited in USEPA 1993) reported a home range of 1,659 acres for red-tailed hawks in Michigan fields and woodlands, which is the central value of the range identified for red-tailed hawks.

#### 3.1.4.3 Reproductive Activities

Red-tailed hawks are monogamous for multiple years, usually until one partner dies. Their nests are large (up to 38 inches diameter and 3 feet tall) and can be used for multiple years (Arnold 2002). Females lay one clutch per year, consisting of one to three eggs (Bent 1937). Both male and female are responsible for incubating (28 to 35 days), and the male provides food for the female during and after incubation (Brown and Amadon 1968). Chicks begin to leave the nest after 42 to 46 days, and fledgling lasts up to 10 weeks while young learn to fly and hunt (Preston and Beane 1993). Red-tailed hawks can live a relatively long life. The oldest hawk in the wild was known to be 21.5 years old (Preston and Beane 1993).

#### 3.1.4.4 Food Habits

Red-tailed hawks hunt from elevated perches, targeting small mammals such as mice, shrews, voles, rabbits, and squirrels, but will also eat a wide variety of other animals including birds, lizards, snakes, and large insects (Bent 1937; Craighead and Craighead 1956; Fitch et al. 1946).

The red-tailed hawk represents avian raptors (i.e., carnivores) and a diet primarily consisting of mammals/birds with a small portion of reptiles and amphibians was assumed in the OU-4 BERA.

#### 3.1.4.5 Predation

Adults have few natural predators, but predation can occur on the eggs and nestlings by great horned owls, crows, and ravens (Preston and Beane 1993).

#### 3.1.4.6 Economic Importance

Red-tailed hawks help farmers by eating mice, moles, and other rodents that disturb crops (Arnold 2002).

## 3.2 Mammals

Mammalian receptors include short-tailed shrew (*Blarina carolinensis*), white-tailed deer (*Odocoileus virginianus*), long-tailed weasel (*Mustela frenata*), and red fox. The species profiles are discussed below.

### 3.2.1 Short-tailed Shrew

Short-tailed shrews (*Blarina brevicauda*) are small insectivorous mammals that are found in the southeastern corner of the United States as far north as southern Illinois and south-central Virginia (Whitaker and Hamilton 1998). They are approximately 8 to 10 cm in length (Burt and Grossenheider 1980).

During 2006/2007 small mammal trapping surveys (Arcadis BBL 2007), short-tailed shrews were captured in maintained field habitat in fall 2006 and winter 2007 (Table A-5). Grasses are the dominant vegetation in this habitat.

For the OU-4 BERA, the short-tailed shrew was selected as a representative terrestrial ground-feeding invertivorous mammal residing and foraging in the floodplain.

#### 3.2.1.1 Habitat

Shrews are found most commonly in moist, well-drained habitats with woody vegetation and close proximity to water, where they burrow underground and build nests of shredded grass, roots, dry leaves, or vegetable material (Wilson and Ruff 1999). They maintain underground runaways in the top 10 to 50 cm of soil (USEPA 1993).

Observations of the short-tailed shrew within OU-4 included in edge habitats near water where grasses are the dominant vegetation in the terrestrial habitat.

#### 3.2.1.2 Home Range and Territoriality

Densities of short-tailed shrews vary by habitat and season. Home ranges can vary from 0.03 to 0.07 hectare (high prey density) to 0.10 to 0.22 hectare (low prey density) in a New York old field (Platt 1976; cited in USEPA 1993). Blair (1940) documents home ranges in Michigan bluegrass habitat from 0.1 to 0.36 hectare (females) and 0.1 to 1.8 hectares (males). A study conducted in Illinois found peak densities (July through October) ranging from 2.5 to 45 shrews per hectare in various habitats (Getz 1989; as cited in USEPA 1993). Buckner (1966; as cited by USEPA 1993) reported a value of 0.96 acre (0.39 hectare) for home ranges of short-tailed shrews in a bog area of Manitoba, which was selected as the central value for the home ranges identified for the short-tailed shrew.

During breeding season, females with young exclude all others from their area. Ranges of opposite sex animals can overlap, but same sex individuals do not (Platt 1976; as cited in USEPA 1993).

#### 3.2.1.3 Reproductive Activities

Short-tailed shrews breed twice a year, between March and June and September and November (Wilson and Ruff 1999), with two to six young per litter. Gestation lasts 21 to 30 days. Young are weaned shortly after they begin to leave the nest, around 18 to 20 days (Nowak 1999). Short-tailed shrews live less than a year in the wild (George et al. 1986).

#### 3.2.1.4 Food Habits

Shrew diets consist mainly of soil invertebrates (e.g., insects, earthworms, slugs, and snails; Hamilton 1941; Whitaker and Ferraro 1963), with some intake of plant material, and will cache food, especially in the fall and winter (Hamilton 1930; Martin 1984). They can produce a poison secretion in their salivary glands transmitted during biting (Pearson 1942; as cited in Eadie 1952). They are most active at night and early morning and early evening (Nowak 1999).

For the OU-4 BERA, two dietary scenarios were developed for the short-tailed shrew, one consisting of terrestrial, plants, worms, insects and spiders based on the average diet composition of Whitaker and Ferraro (1963) and Hamilton (1941), both as cited in USEPA 1993. The second scenario consists of a more varied diet including worms, insects, spiders, plants, small mammals, and amphibians, based on Hamilton (1930 and 1941; both as cited in USEPA 1993).

#### 3.2.1.5 Predation

Short-tailed shrews have a variety of predators, including hawks, owls, coyote, red fox, and large snakes (Wilson and Ruff 1999).

#### 3.2.1.6 Economic Importance

Southern short-tailed shrews are helpful to humans by controlling insect populations (Whitaker and Hamilton 1998). Southern short-tailed shrews may have toxins in their saliva, and bites may result in a painful burning sensation that can last some time (Davis and Schmidly 1997).

### 3.2.2 White-tailed Deer

White-tailed deer are large mammals with brown dorsal coloration that differs in shading locally and seasonally (grayer in winter and redder in summer), with white fur in a band behind the nose, circles around the eyes, inside the ears, over the chin and throat, and on the upper insides of the legs and beneath the tail (Dewey 2003). The head and body length is 150 to 200 cm, tail length is 10 to 28 cm, and height at the shoulders is between 80 and 100 cm (Dewey 2003). They inhabit most of southern Canada and the United States except for a few states in the west, and south to Central America to Bolivia (Dewey 2003).

During 2006/2007 terrestrial surveys conducted in OU-4 (Arcadis BBL 2007), white-tailed deer were observed from ground transects in the successional field habitat in fall 2006 and winter 2007, maintained field in winter 2007, and forested floodplain in spring and summer 2007 (Table A-4). White-tailed deer were also observed in the forested floodplain reference area in fall 2006, spring and summer 2007 (Table A-3). Other mammals in a similar guild (terrestrial herbivore) were also observed within OU-4 including eastern cottontail (*Sylvilagus floridanus*), cattle (*Bos taurus*), eastern chipmunk (*Tamias striatus*) (Table A-4).

For the OU-4 BERA, the white-tailed deer was selected as a representative receptor for terrestrial herbivorous mammal residing and foraging in the floodplain.

#### 3.2.2.1 Habitat

White-tailed deer can be found in a variety of terrestrial habitats, ranging from woods, swamps, farmlands, brushy areas, and desolate areas of the west (Dewey 2003). Ideally they prefer dense thickets to hide and edges that provide food.

Observations of the white-tailed deer within OU-4 were in habitats where the dominant species in the maintained field consisted of grasses; dominant species in the successional field consisted of box elder, sweetgum, sycamore, water oak, black willow, and Chinese privet. White-tailed deer were also observed in the forested floodplain reference area. Evidence of white-tailed deer was observed during aquatic surveys in multiple habitats (e.g., depositional/bank, backwater, run, riffle, mud flat) in fall 2006, and winter, spring, and summer 2007 (Arcadis BBL 2007).

#### 3.2.2.2 Home Range and Territoriality

White-tailed deer home ranges are typically small, less than a square kilometer. Marchinton and Hirth (1984; as cited in Sample and Suter 1994) reports home ranges of 59 to 520 hectares (146 to 1284 acres). They tend to use the same path to forage continually, but will find new areas to bed down during the day. They do not migrate, and are considered solitary animals (except for mothers with young), even though they may graze together in herds. Based on the range of the Marchinton and Hirth (1984) study, 715 acres is an estimated central value for the home range size for the white-tailed deer.

#### 3.2.2.3 Reproductive Activities

Males are polygamous (mating with several females) and mating occurs from October to December. Males will challenge each other during mating season to gain access to a female, using their antlers during the fight. Females typically have two young per litter (or up to four) once a year. Gestation is six and a half months. Young can walk at birth, but mothers will leave them in a hiding place for a few hours at a time while foraging. Young are nursed for eight to 10 weeks before weaned, and will start to follow their mother to forage after four weeks. After two months they are fully ruminant. Young males will leave the mother after one year, while females may stay up to two (Dewey 2003). Most white-tailed deer live two to three years in the wild, up to 10 years at the most. Few can live up to 20 years (Dewey 2003).

#### 3.2.2.4 Food Habits

Deer are ruminants (cud chewers) and eat up to six pounds of forage per day for every 100 pounds of body weight (Alabama Department of Conservation and Natural Resources [ADCNR] 2013). They eat a variety of vegetation as available in the particular habitat, such as buds and twigs of maples (Aceraceae), sassafras (Lauraceae), poplar (Populus), aspen (*Populus tremuloides*), and birch (Betula) in eastern forests, conifers (Pinophyta) in the winter, and yucca (Asparagaceae), and prickly pear cactus (Opunti) in the desert. They feed from before dawn until hours after, and late afternoon to dusk (Dewey 2003).

The white-tailed deer represents large mammalian herbivores and a diet consisting of terrestrial plants was assumed in the OU-4 BERA.

#### 3.2.2.5 Predation

While-tailed deer are extremely agile, reaching speeds of up to 30 miles per hour when bounding through forests. They are also good swimmers, using the water to escape predators. They have an excellent sense of smell and hearing to detect predators (ADCNR 2013), and are preyed upon by wolves (*Canis lupus*), mountain lions (*Puma concolor*), bears, coyotes, and humans (Dewey 2003).

#### 3.2.2.6 Economic Importance

White-tailed deer are commonly hunted for meat and sport and heads are also commonly mounted on the walls of lodges and other places of outdoor recreation. White-tailed deer can be destructive to crops and gardens in areas of human habitation, and are involved in accidents with cars, often resulting in injury to humans. White-tailed deer serve as hosts to ticks that carry the bacteria responsible for Lyme disease, which has become common in certain parts of the United States, especially the northeastern states. In areas where white-tailed deer are high in numbers, they can cause serious damage to forest vegetation through over-browsing (Dewey 2003).

### 3.2.3 Long-tailed Weasel

The long-tailed weasel is a carnivorous mammal with cinnamon brown colored long slender body with a white underside, short legs, and a bushy tail that comprises about 50% of their total body weight (Newell 2002). It is similar to but smaller than the mink, with males 23 to 27 cm and females 20 to 23 cm long. They are found throughout most of North America extending to just north of the United States-Canadian border and south to Central America to northern South America (Baker 1983).

During 2006/2007 terrestrial surveys conducted in OU-4 (Arcadis BBL 2007), long-tailed weasels were observed from ground transects in the forested floodplain in fall 2006 (Table A-4).

For the OU-4 BERA, the long-tailed weasel was selected as a representative terrestrial carnivorous mammal residing and foraging in the floodplain.

#### 3.2.3.1 Habitat

Long-tailed weasels can be found in temperate and tropical habitats, ranging from crop fields, small wooded areas, to suburban areas. They create burrows and nests in hollow logs, rock piles and under barns, or may take over the burrow of one of their prey (Baker 1983).

Observations of the long-tailed weasel within OU-4 were in habitats where the dominant species in the forested floodplain consisted of box elder, sweetgum, sycamore, water oak, black willow, and Chinese privet. Evidence of long-tailed weasels was observed during aquatic surveys in depositional bank habitat in fall 2006 and spring 2007 (Arcadis BBL 2007).

#### 3.2.3.2 Home Range and Territoriality

The home range of a long-tailed weasel varies depending on availability of food resources, and home ranges of long-tailed weasels can vary from 25 to 400 acres depending on food supplies (Indiana Department of Natural Resources [IDNR] 2012). Gehring and Swihart (2004) concluded home ranges of 39 hectares (96 acres) for adult females and 137 hectares (339 acres) for adult male long-tailed weasels

in an Indiana landscape fragmented by agriculture (96 to 338 acres). Snow-tracking studies of long-tailed weasels measured home ranges of 32 to 160 hectares (79 to 395 acres) (Quick 1944 and 1951; both as cited in Gehring and Swihart 2004). Svendsen (1982; as cited in Gehring and Swihart 2004) concluded summer home ranges of long-tailed weasels ranged from 12 to 16 hectares (30 to 40 acres). DeVan (1982; as cited in Gehring and Swihart 2004) reported male home ranges of 10 to 24 hectares (25 to 59 acres) based on a mark-recapture and radio telemetry study in Kentucky farmland. Based on the wide ranges of data in the literature, 25, 96, and 400 acres are considered lower, central and upper bounds, respectively, for long-tailed weasel home ranges.

#### 3.2.3.3 Reproductive Activities

Long-tailed weasels mate in mid-summer. Implantation is delayed and the egg develops in March, therefore total gestation lasts approximately 280 days. Females have one litter per year, with an average of six young. They are weaned around 36 days, eating food brought back from their mother. By 56 days, they can hunt on their own (Baker 1983). If long-tailed weasels make it past one-year old, they may live for several years. The lifespan of long-tailed weasels in the wild is not well known (Newell 2002).

#### 3.2.3.4 Food Habits

Long-tailed weasels are most active at night, but can be active during daytime and are good climbers and swimmers. Long-tailed weasels primarily eat small rodents, smaller females can fit their bodies into rodent burrows while hunting, and males will target larger animals such as rabbits. The long-tailed weasel diet consists mostly of small mammals like mice, voles, rabbits, gophers, and chipmunks; therefore, its dietary composition was based on Sheffield and Thomas (1997).

The long-tailed weasel represents aquatic-dependent carnivorous mammals and a diet consisting of 100% mammals was assumed in the OU-4 BERA.

#### 3.2.3.5 Predation

Long-tailed weasels may be preyed upon by owls, coyotes, or large snakes, but are typically aggressive towards other animals. Young are more vulnerable to predation (Newell 2002).

#### 3.2.3.6 Economic Importance

Long-tailed weasel pelts were available in the fur trade, but were not popular. They can aid farmers in eliminating pests such as rats and mice (Baker 1983); however, they can negatively impact humans because they are known to raid poultry flocks (Baker 1983; as cited in Newell 2002).

### 3.2.4 Red Fox

Red fox are native to most of North America, except in the southeast, extreme southwest, and parts of the central states (USEPA 1993). Red fox are the largest of the *Vulpes* species. Their head and bodies are 56 to 63 cm in length, with a 35 to 41 cm tail (Burt and Grossenheider 1980). Red fox are most often found in rural areas; however, they may also inhabit small areas within urban communities where suitable habitat is available. They are active primarily at night.

Although red fox were not observed within OU-4 during the terrestrial surveys, evidence of grey fox (*Urocyon cinereoargenteus*) was observed during aquatic surveys in run habitat in winter 2007 (Arcadis BBL 2007). Other mammals in a similar guild (terrestrial-dependent carnivore) were also observed within OU-4 including eastern coyote, bobcat, and domestic dog (Arcadis BBL 2007).

For the OU-4 BERA, the red fox was selected as a representative terrestrial carnivorous mammal residing and foraging in the floodplain.

#### 3.2.4.1 Habitat

Red fox can be found in semi-arid deserts, tundra, farmland, boreal forests, and metropolitan areas (Lariviere and Pasitschniak-Arts 1996). They prefer habitats that provide both adequate cover and prey, with areas of fragmented and diverse habitat (Voigt 1987; Lariviere and Pasitschniak-Arts 1996). Red fox construct burrows, which are used as refuges and for rearing young. The burrows are usually located in a well-drained area and may extend 10 to 30 feet below the ground surface (Baker 1983).

Based on the habitat description above and their ability to use and adapt to a variety of habitats, both the terrestrial and aquatic habitat within OU-4 provides potential habitat for red fox.

#### 3.2.4.2 Home Range and Territoriality

Red fox are active year round. Home range territories are usually well defined and occupied by a single family unit of male-female pairs and pups (DeGraaf and Yamasaki 2001). USEPA (1993) reports a mean home range of 2,563 acres. Densities are typically on family per 100 to 1,000 hectares; however, when in areas of lesser quality habitat the density may be lower (Voigt 1987). Territories can range from 50 to more than 3,000 hectares, depending on habitat type (USEPA 1993); urban territories tend to be smaller than rural areas (Ables 1969).

Studies have found that the home range of the red fox can vary from 142 acres to 8,447 acres. A study by Ables (1969; as cited in USEPA 1993) concluded that the home ranges of red fox in Wisconsin varied from 142 to 400 acres. Jones and Theberge (1982; as cited in USEPA 1993) concluded that home ranges for red fox in alpine and subalpine habitat in British Columbia ranged from 277 to 3,420 hectares (684 to 8,447 acres). The mean of all reported values (USEPA 1993) was calculated as 2,563 acres, which is the central value for the home ranges identified for the red fox.

#### 3.2.4.3 Reproductive Activities

The red fox can be monogamous, but males may also mate with multiple females. They may use non-breeding females to help in raising young, and multiple females will share the same den with the male (MacDonald and Reynolds 2005; as cited in Fox 2007). Females are capable of producing one litter of pups per year consisting of four to six pups. Males provide food for females and pups. After four to five weeks, pups will emerge from the den (Samuel and Nelson 1982; as cited in USEPA 1993), and they are weaned after eight to 10 weeks of age (Ables 1974). Red fox live an average of two to three years in the wild (Fox 2007).

#### 3.2.4.4 Food Habits

Red fox are carnivorous, feeding mainly on small mammals, birds, insects, and fruit (Korschgen 1959; Samuel and Nelson 1982; as cited in USEPA 1993), and will scavenge on carcasses or other refuse (Voigt 1987). They sometimes cache food for later use (Samuel and Nelson 1982; as cited in USEPA 1993).

For the OU-4 BERA, two dietary scenarios were developed for the red fox, both with a high proportion of birds and mammals. One scenario has a relatively higher proportion of plants in the diet and also includes a small proportion of terrestrial invertebrates based on Knable (1974; as cited in USEPA 1993), which was focused more on farm and woodland habitats. The second scenario consists primarily of mammals and birds with a small proportion of plants, based on the information in Korschgen (1959; as cited in USEPA 1993), which may be more appropriate for a riverine habitat.

#### 3.2.4.5 Predation

Most predation occurs on young pups, and adults keep them in and near dens as much as possible to avoid predation (Fox 2007). Humans hunt and trap foxes for their fur or to exterminate them as pests (Fox 2007).

#### 3.2.4.6 Economic Importance

Red foxes are raised on farms for pelts, more than any other wild fur-bearing mammal. They can also help to control populations of rodents and may disperse seeds (MacDonald and Reynolds 2005; as cited in Fox 2007). Red foxes can be threatening to poultry as individual foxes may learn to target domestic birds if they are not adequately protected. Foxes can transmit rabies to humans and other animals.

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# TABLES

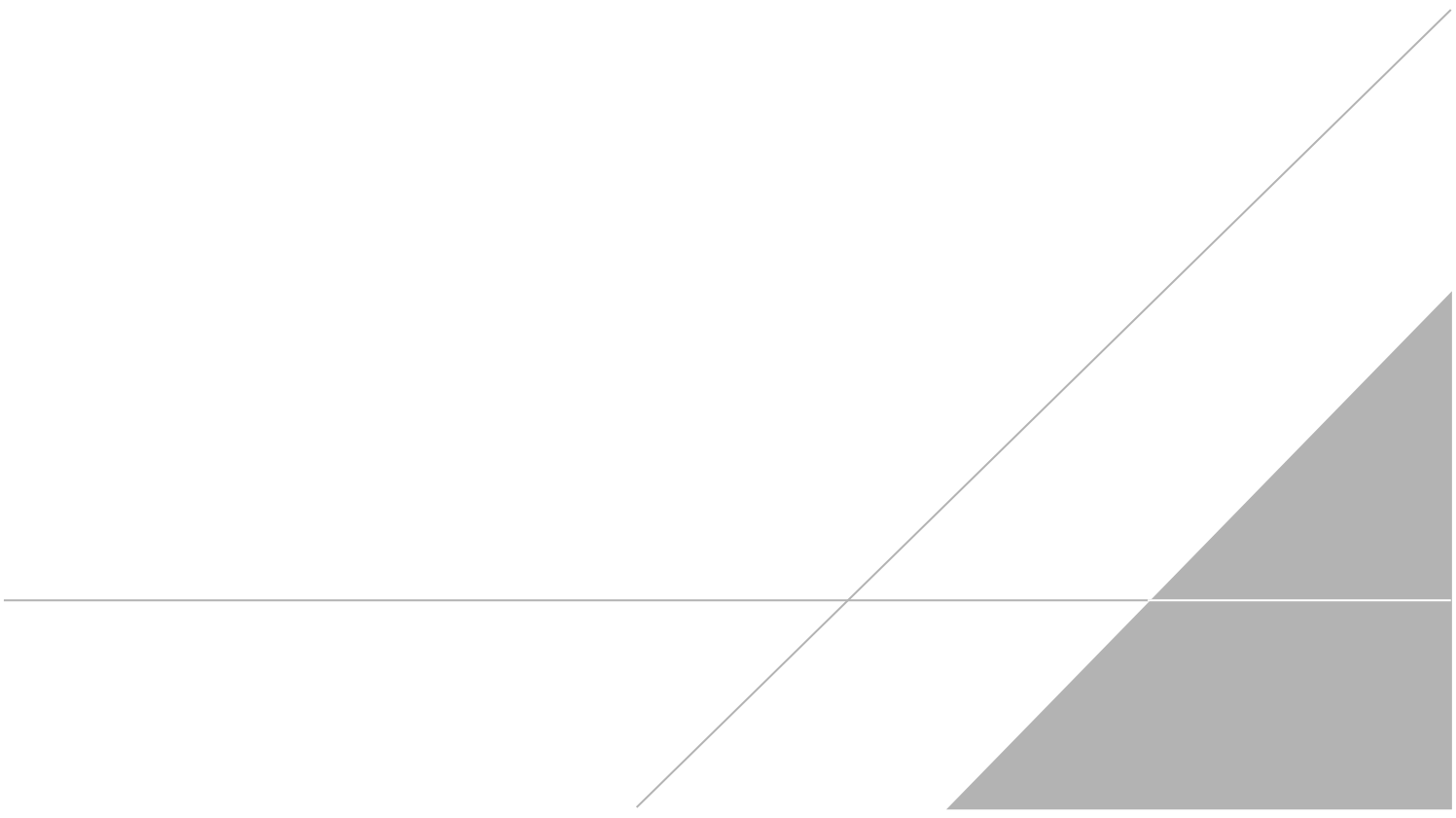

**Table A-1. Bird Species Observed During Terrestrial Transect Surveys[1]**
**Anniston PCB Site, Anniston, Alabama**

| Habitat Type: | | Maintained Field | | | | | | | | | Forested Floodplain | | | | | | | | | | Successional Field | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Assessment Area: | | UAA | | | MAA | | LAA | Ref 1 | Ref 2 | Ref 3 | UAA | | | MAA | | | LAA | | | Ref 1 | Ref 2 | Ref 3 | UAA | | | MAA | | LAA | | | Ref 1 | Ref 2 | Ref 3 |
| **Species** | **Scientific Name** **Transect →** | 1 | 2 | 3 | 1 | 2 | 1 [3] | 1 [2] | 1 | 1 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 [2] | 1 | 1 | 1 | 2 | 3 | 1 | 2 | 1 [3] | 2 | 3 | 1 | 1 | 1 |
| **Fall 2006** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| American Crow | *Corvus brachyrhynchos* | | | | | X | | | | | | | | | | | X | | X | X | X | | X | | | | | | X | | X | | |
| American Goldfinch | *Spinus tristis* | X | | X | | | | | | | | | | | | | X | | | X | | | | X | X | X | | | X | X | | | |
| American Robin | *Turdus migratorius* | | | | | | | | | | X | | X | | | | | | | | | | | X | | | | X | X | | | | |
| Barred Owl | *Strix varia* | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Belted Kingfisher | *Ceryle alcyon* | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Black Vulture | *Coragyps atratus* | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Black-Throated Green Warbler | *Dendroica virens* | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Blue Jay | *Cyanocitta cristata* | X | | X | X | | | | | | X | | | X | | X | | X | | X | X | | X | | X | X | | | X | | X | | |
| Blue-Winged Warbler | *Vermivora pinus* | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Brown Thrasher | *Toxostoma rufum* | | | | | | | | | | | | | | | | | X | | X | | | | | X | | | | | | | | |
| Carolina Chickadee | *Poecile carolinensis* | | | X | | | | | | | X | X | | X | | | | | X | X | | | X | X | X | X | X | | | | | | |
| Carolina Wren | *Thryothorus ludovicianus* | | | X | | | | | | | X | | | X | | | X | | X | | | | | X | X | | | | | | | | |
| Cedar Waxwing | *Bombycilla cedrorum* | | | | | | | | | | X | X | | | | | | | | | | | X | X | | | | | | | | | |
| Chipping Sparrow | *Spizella passerina* | | | | | | | | | | | | | | | | | | | X | X | | | | | | | | | | | | |
| Common Grackle | *Quiscalus quiscula* | X | | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | | |
| Cooper's Hawk | *Accipiter cooperii* | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Dark-Eyed Junco | *Junco hyemalis* | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Downy Woodpecker | *Picoides pubescens* | | | | | | | | | | | | | | | | | | | | X | | | | | | | | X | | | | |
| Eastern Bluebird | *Sialia sialis* | X | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Eastern Phoebe | *Sayornis phoebe* | | | | | | | | | | | | | | | X | X | X | | | | | | X | | | | X | | X | | | |
| Eastern Towhee | *Pipilo erythrophthalmus* | | X | | | | | | | | X | | | | | | | | | X | | | | | | | | | | | | | |
| European Starling | *Sturnus vulgaris* | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Field Sparrow | *Spizella pusilla* | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | X | | | |
| Gray Catbird | *Dumetella carolinensis* | | | | | | | | | | | | X | | | X | X | | | | | | | X | | X | | | | | | | |
| Great Blue Heron | *Ardea herodius* | | | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Great Crested Flycatcher | *Myiarchus crinitus* | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Hairy Woodpecker | *Picoides villosus* | | X | | | | | | | | X | | X | X | | | | | | | | | | X | | | | | | | | | |
| House Finch | *Carpodacus mexicanus* | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Northern Cardinal | *Cardinalis cardinalis* | | | | | | | | | | | | | | | | X | | | X | X | | | | X | | | | | | | | |
| Northern Flicker | *Colaptes auratus* | | X | | X | | | | | | | | | X | | | | | | | X | | | X | | | X | | | | | | |
| Northern Mockingbird | *Mimus polyglottos* | X | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Pileated Woodpecker | *Dryocopus pileatus* | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pine Warbler | *Dendroica pinus* | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Red-Breasted Nuthatch | *Sitta canadensis* | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Red-Headed Woodpecker | *Melanerpes erythrocephalus* | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Red-Shouldered Hawk | *Buteo lineatus* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Red-Tailed Hawk | *Buteo jamaicensis* | | | | | | | | | | | | | | | | | | | | X | | | X | | | | | | | | | |
| Red-Winged Blackbird | *Agelaius phoeniceus* | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ruby-Crowned Kinglet | *Regulus calendula* | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Song Sparrow | *Melospiza melodia* | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Tufted Titmouse | *Baeolophus bicolor* | | | | | | | | | | X | X | | X | | | | X | X | | | | | | X | | | | | | | | |
| Turkey Vulture | *Cathartes aura* | | | | | | | | | | | | | X | | X | | | | | X | | | | | | | | | | | | |
| Unknown Empidonax Flycatcher | *Empidonax* sp. | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Unknown Parid | *N/A* | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| White-Throated Sparrow | *Zonotrichia albicollis* | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | X | |
| Yellow Warbler | *Dendroica petechia* | | | | | | | | | | | | X | | | X | | | | X | | | | | | | | | | | | | |
| Yellow-Rumped Warbler | *Dendroica coronata* | | | X | | | | | | | | | | X | | X | | | | | | | | | X | X | | X | | | | | |

**Table A-1. Bird Species Observed During Terrestrial Transect Surveys[1]**
**Anniston PCB Site, Anniston, Alabama**

| Habitat Type: | | Maintained Field | | | | | | | | | Forested Floodplain | | | | | | | | | | | Successional Field | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Assessment Area: | | UAA | | | MAA | | LAA | Ref 1 | Ref 2 | Ref 3 | UAA | | | MAA | | | LAA | | | Ref 1 | Ref 2 | Ref 3 | UAA | | | MAA | | LAA | | | Ref 1 | Ref 2 | Ref 3 |
| **Species** | **Scientific Name** **Transect →** | 1 | 2 | 3 | 1 | 2 | 1[3] | 1[2] | 1 | 1 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1[2] | 1 | 1 | 1 | 2 | 3 | 1 | 2 | 1[3] | 2 | 3 | 1 | 1 | 1 |
| **Winter 2007** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| American Goldfinch | *Spinus tristis* | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| American Robin | *Turdus migratorius* | | | | | | | | | | | | | X | | | X | | | | | | X | | | | | X | | | | | |
| Blue Jay | *Cyanocitta cristata* | | | | | | | | | | | | | X | | | | | | | | | X | | | | | | | | | | |
| Carolina Chickadee | *Poecile carolinensis* | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Carolina Wren | *Thryothorus ludovicianus* | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Cedar Waxwing | *Bombycilla cedrorum* | | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Common Grackle | *Quiscalus quiscula* | | X | | | | | | | | | | | X | | | X | | | | | | | | | | | | | | | | |
| Eastern Bluebird | *Sialia sialis* | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Eastern Meadowlark | *Sturnella magna* | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eastern Phoebe | *Sayornis phoebe* | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| European Starling | *Sturnus vulgaris* | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Killdeer | *Charadrius vociferus* | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mourning Dove | *Zenaida macroura* | | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Northern Cardinal | *Cardinalis cardinalis* | | | | | | | | | | | | | | | | X | | | | | | | | | | X | | | | | | |
| Northern Flicker | *Colaptes auratus* | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Northern Mockingbird | *Mimus polyglottos* | | | | | | | | | | | | | | | | X | | | | | | X | | | | | | | | | | |
| Red-Bellied woodpecker | *Melanerpes carolinus* | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Red-Headed Woodpecker | *Melanerpes erythrocephalus* | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Red-Tailed Hawk | *Buteo jamaicensis* | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Tufted Titmouse | *Baeolophus bicolor* | | | | | | | | | | | | | X | | | X | | | | | | | | | | | | | | | | |
| White-Throated Sparrow | *Zonotrichia albicollis* | | | | | | | | | | | | | | | | X | | | | | | X | | | | | | | | | | |
| **Spring 2007** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue Jay | *Cyanocitta cristata* | -* | | | -* | | | | | | | | | | | | X | | | X | X | X | X | | | | | | | | - | | |
| Carolina Chickadee | *Poecile carolinensis* | - | | | - | | | | | | | | | | | | X | | | | | | | | | | | | | | - | | |
| Carolina Wren | *Thryothorus ludovicianus* | - | | | - | | | | | | | | | X | | | | | | X | X | | X | | | | | | | | - | | |
| Common Grackle | *Quiscalus quiscula* | - | | | - | | | | | | | | | | | | | | | X | | | | | | | | | | | - | | |
| Eastern Kingbird | *Tyrannus tyrannus* | - | | X | - | | | | | | | | | | | | | | | | | | | | | | | | | | - | | |
| Eastern Towhee | *Pipilo erythrophthalmus* | - | | | - | | | | | | | | | | | | | | | X | X | | | | | | | | | | - | | |
| Gray Catbird | *Dumetella carolinensis* | - | | | - | | | | | | | | | | | | X | | | | | | | | | | | | | | - | | |
| Indigo Bunting | *Passerina cyanea* | - | | | - | X | | | | | | | | | | | X | | | | | | | | | | | | | | - | | |
| Northern Cardinal | *Cardinalis cardinalis* | - | | | - | X | | | | | | | | | | | X | | | X | | | X | | | | | | | | - | | |
| Northern Mockingbird | *Mimus polyglottos* | - | | | - | X | | | | | | | | | | | | | | | | | | | | | | | | | - | | |
| Red-Bellied Woodpecker | *Melanerpes carolinus* | - | | | - | | | | | | | | | | | | X | | | | | | | | | | | | | | - | | |
| Red-Eyed Vireo | *Vireo olivaceus* | - | | | - | | | | | | | | | | | | | | | | | X | | | | | | | | | - | | |
| Tufted Titmouse | *Baeolophus bicolor* | - | | | - | | | | | | | | | | | | X | | | | | | | | | | | | | | - | | |
| Unknown Hummingbird | *Trochilidae (family)* | - | | | - | | | | | | | | | | | | X | | | | | X | | | | | | | | | - | | |
| Unknown Vireo | *Vireo* sp. | - | | | - | | | | | | | | | X | | | | | | | | | | | | | | | | | - | | |
| White-Eyed Vireo | *Vireo griseus* | - | | | - | | | | | | | | | | | | | | | X | X | | | | | | | | | | - | | |
| Yellow Warbler | *Dendroica petechia* | - | | | - | | | | | | | | | | | | X | | | | | | | | | | | | | | - | | |
| Yellow-Rumped Warbler | *Dendroica coronata* | - | | | - | | | | | | | | | X | | | | | | | | | | | | | | | | | - | | |
| **Summer 2007** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| American Crow | *Corvus brachyrhynchos* | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | - | | | |
| American Goldfinch | *Spinus tristis* | X | | | | | | | | | | | | | | | | | | X | | | X | | | | | | - | | | |
| American Robin | *Turdus migratorius* | | | | | | | | | | | | | X | | | | | | X | | | | | | | | | - | | | |
| Barn Swallow | *Hirundo rustica* | | | | | | | | | | | | | | | | | | | | | | X | | | | | | - | | | |
| Blue Jay | *Cyanocitta cristata* | | | X | | | | | | | | | | X | | | X | | | | | | X | | | | | | - | | X | |
| Blue-gray Gnatcatcher | *Polioptila caerulea* | | | | | | | | | | | | | X | | | | | | | | | | | | | | | - | | | |
| Blue-winged Teal | *Anas discors* | X | | | | | | | | | | | | | | | | | | | | | | | | | | | - | | | |

**Table A-1. Bird Species Observed During Terrestrial Transect Surveys[1]**
**Anniston PCB Site, Anniston, Alabama**

| Habitat Type: | | Maintained Field | | | | | | | | | Forested Floodplain | | | | | | | | | | Successional Field | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Assessment Area: | | UAA | | | MAA | | LAA | Ref 1 | Ref 2 | Ref 3 | UAA | | | MAA | | | LAA | | | Ref 1 | Ref 2 | Ref 3 | UAA | | | MAA | | LAA | | | Ref 1 | Ref 2 | Ref 3 |
| **Species** | **Scientific Name** **Transect →** | 1 | 2 | 3 | 1 | 2 | 1[3] | 1[2] | 1 | 1 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1[2] | 1 | 1 | 1 | 2 | 3 | 1 | 2 | 1[3] | 2 | 3 | 1 | 1 | 1 |
| Brown-headed Cowbird | *Molothrus ater* | | | | | | | | | | | | | | | | | | | | | | | X | | | | - | | | | | |
| Carolina Chickadee | *Poecile carolinensis* | | | | | | | | | | | | | X | | | X | | | | | | | | | | | - | | | | | |
| Carolina Wren | *Thryothorus ludovicianus* | | | | | X | | | | | | | | | | | X | | | | | | | | | | | - | | | | | |
| Chimney Swift | *Chaetura pelagica* | X | | | | | | | | | | | | X | | | | | | X | | | | | | | | - | | | | | |
| Common Grackle | *Quiscalus quiscula* | | | | | | | | | | | | | | | | | | | | | | | X | | | | - | | | | | |
| Common Yellowthroat | *Geothlypis trichas* | X | | | | | | | | | | | | | | | | | | | | | | | | | | - | | | | | |
| Downy Woodpecker | *Picoides pubescens* | | | | | | | | | | | | | X | | | | | | | | | | | | | | - | | | | | |
| Eastern Bluebird | *Sialia sialis* | | | | | X | | | | | | | | | | | | | | | | | | | | | | - | | | | | |
| Eastern Phoebe | *Sayornis phoebe* | | | | | | | | | | | | | X | | | | | | | | | | | | | | - | | | | | |
| Eastern Towhee | *Pipilo erythrophthalmus* | | | | | | | | | | | | | | | | X | | | | | | | | | | | - | | | | | |
| European Starling | *Sturnus vulgaris* | X | | | | | | | | | | | | | | | | | | | | | | | | | | - | | | | | |
| Grey Catbird | *Dumetella carolinensis* | | | | | | | | | | | | | | | | | | | X | | | | | | | | - | | | | | |
| Indigo Bunting | *Passerina cyanea* | | | | | | | | | | | | | | | | X | | | X | | | | X | | | | - | | | | | |
| Mallard | *Anas platyrhynchos* | X | | | | | | | | | | | | | | | | | | | | | | | | | | - | | | | | |
| Mourning Dove | *Zenaida macroura* | X | | | | X | | | | | | | | | | | | | | X | | X | | X | | | | - | | | | X | |
| Northern Cardinal | *Cardinalis cardinalis* | | | | | | | X | | | | | | X | | | X | | | | | | | | | | | - | | | | | |
| Northern Mockingbird | *Mimus polyglottos* | | | | | | | | | | | | | | | | | | | | | X | | | | | | - | | | | | |
| Northern Rough-Winged Swallow | *Stelgidopteryx serripennis* | | | | | | | | | | | | | | | | | | | | X | | | | | | | - | | | | | |
| Red-Bellied Woodpecker | *Melanerpes carolinus* | | | | | | | | | | | | | | | | | | | X | | | | | | | | - | | | | | |
| Red-Breasted Nuthatch | *Sitta canadensis* | | | | | | | | | | | | | X | | | | | | | | | | | | | | - | | | | | |
| Red-Winged Blackbird | *Agelaius phoeniceus* | | | | | | | | | | | | | | | | | | | | | | | X | | | | - | | | | | |
| Ruby-Throated Hummingbird | *Archilochus colubris* | | | | | | | | | | | | | | | | | | | X | | | | X | | | | - | | | | | |
| Tree Swallow | *Tachycineta bicolor* | | | | | | | | | | | | | | | | | | | | | | | X | | | | - | | | | | |
| Turkey Vulture | *Cathartes aura* | | | | | | | | | | | | | | | | | | | | X | | | | | | | - | | | | | |

**Notes:**
Fall avian surveys were conducted from October 24 to 27, 2006.
Winter avian surveys were conducted on February 7, 2007.
Spring avian surveys were conducted from May 29 to 30, 2007.
Summer avian surveys were conducted from August 12 to 13, 2007.
-: Indicates that a survey was performed, but no species were observed. Empty boxes indicate that no survey was performed along that particular transect.
[1] Data are from RI/FS Phase 1 Ecological Surveys.
[2] Transect line is different from previous investigations.
[3] Habitat classification was changed from successional to maintained due to a subsequent change in crop planting rotation.
X: indicates presence
LAA: lower assessment area
MAA: middle assessment area
N/A: not available
PCB: polychlorinated biphenyl
RI/FS: remedial investigation/feasibility study
Ref: reference location
UAA: upper assessment area

**Table A-2. Bird Species Observed During Aquatic Habitat Surveys[1]**
**Anniston PCB Site, Anniston, Alabama**

| Species | | Assessment Area | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Upper | | | | Middle | | | | Lower | | | | Ref 1 | Ref 2 | Ref 3 |
| Common Name | Scientific Name | Fall 2006 | Winter 2006 | Spring 2007 | Summer 2007 | Fall 2006 | Winter 2006 | Spring 2007 | Summer 2007 | Fall 2006 | Winter 2006 | Spring 2007 | Summer 2007 | Spring 2007 | Spring 2007 | Spring 2007 |
| American Ahninga | *Ahninga ahninga* | | | | | | | | | X | | | | | | |
| American Osprey | *Pandion haliaetus* | | | | | | | | X | | | | | | | |
| Belted Kingfisher | *Megaceryle alcyon* | X | X | X | X | X | X | X | X | X | X | | X | | | |
| Black Vulture | *Coragyps atratus* | | | | | | | X | | | | | | | | |
| Canada Goose | *Branta canadensis* | | | | | | | | | | | X | | | | |
| Cooper's Hawk | *Accipiter cooperii* | | | | | X | | | | X | | | X | | | |
| Duck sp. | Anatidae | | | X | X | | | X | | | | | | X | | |
| Great Blue Heron | *Ardea herodias* | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| Great Egret | *Ardea alba* | | | | X | | | | | | | X | | | | |
| Green Heron | *Butorides virescens* | | | X | X | | | X | X | | | X | X | | | |
| Hawk sp. | Accipitridae | | | | X | | | | | | | | | | | |
| Hooded Merganser | *Lophodytes cucullatus* | | | | | | X | | | | | | | | | |
| Killdeer | *Charadrius vociferus* | | | X | | | | | | | | | | | | |
| Mallard | *Anas platyrhynchos* | | | | | X | X | X | | | X | | | | | |
| Northern Harrier | *Circus cyaneus* | | | | | | | | | | | X | | | | |
| Owl sp. | Strigidae | | | | | | | | X | | | | | | | |
| Red-headed Woodpecker | *Melanerpes erythrocephalus* | X | | | | X | | | | | | | | | | |
| Red-shouldered Hawk | *Buteo lineatus* | X | X | | X | X | X | | X | X | | | X | | | |
| Red-tailed Hawk | *Buteo jamaicensis* | X | | X | X | | X | X | | X | X | X | | | | |
| Ruby-throated Hummingbird | *Archilochus colubris* | | | | | | X | | | | | | | | | |
| Sharpshin Hawk | *Accipiter striatus* | | | | | X | | | | | | | | | | |
| Snowy Egret | *Egretta thula* | | | | | | | | | | | X | | | | |
| Swallows sp. | *Hirundinidae sp.* | X | | | | | | | | | | | | | | |
| Turkey Vulture | *Cathartes aura* | | | | | | X | | | | | X | | | | |
| Wild Turkey | *Meleagris gallopavo* | X | | | | | | | | | | | | | | |
| Wood Duck | *Aix sponsa* | X | X | X | X | X | X | X | X | X | X | X | X | X | | |

**Notes:**
[1] Data are from RI/FS Phase 1 Ecological Surveys performed by season using float trips through OU-4 and reference stream reaches. Based on observations, some birds were not able to be identified to species level. Additionally, some terrestrial bird species are noted within the aquatic/riparian corridor.
X: indicates presence; blank indicates none observed
OU-4: Operable Unit 4
PCB: polychlorinated biphenyl
Ref: reference location
RI/FS: remedial investigation/feasibility study

**Table A-3. Mammal Species Observed During Aquatic Habitat Surveys[1]**
**Anniston PCB Site, Anniston, Alabama**

| Species | | Assessment Area | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Upper | | | | Middle | | | | Lower | | | | Ref 1 | Ref 2 | Ref 3 |
| Common Name | Scientific Name | Fall 2006 | Winter 2006 | Spring 2007 | Summer 2007 | Fall 2006 | Winter 2006 | Spring 2007 | Summer 2007 | Fall 2006 | Winter 2006 | Spring 2007 | Summer 2007 | Spring 2007 | Spring 2007 | Spring 2007 |
| Beaver | *Castor canadensis* | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X[2] |
| Coyote | *Canis latrans* | X | | | | | | | | | X | | | | | |
| Eastern Chipmunk | *Tamias striatus* | X | | | | | | | | | | | | | | |
| Fox | Canidae | | | | | | | | | | | | | X | | |
| Gray Fox | *Urcyon cinereoargenteus* | | X | | | | | | | | | | | | | |
| Gray Squirrel | *Sciurus carolinensis* | | | | | | | | | | | | | | | |
| Groundhog | *Marmota monax* | X | | X | | | | | | | | | | X | | |
| Long-tailed Weasel | *Mustela frenata* | X | | X | | | | | | | | | | | | |
| Mink | *Neovison vison* | X | X | | | | | X | X | X | | | X | | | |
| Muskrat | *Ondatra zibethicus* | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X[2] |
| Opossum | *Didelphia virginiana* | | X | | | | | | | | | | | | | |
| Raccoon | *Procyon lotor* | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| Skunk | *Mephitis mephitis* | | | X | | | | | | | | | | | | |
| White-tailed Deer | *Odocoileus virginianus* | X | | X | X | X | | X | X | X | X | X | X | X | | |

**Notes:**
[1] Data are from RI/FS Phase 1 Ecological Surveys performed by season using float trips through OU-4 and reference stream reaches. Some terrestrial mammals were observed and are noted within the aquatic/riparian corridor.
[2] Survey observation noted either species, based on distant visual observation along bank.
X: indicates presence; blank indicates none observed
OU-4: Operable Unit 4
PCB: polychlorinated biphenyl
Ref: reference location
RI/FS: remedial investigation/feasibility study

**Table A-4. Mammal Species Observed During Terrestrial Transect Surveys[1,2]**
**Anniston PCB Site, Anniston, Alabama**

| Habitat Type: | | | Maintained Field | | | | | | | Forested Floodplain | | | | | | | | | | | Successional Field | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Assessment Area: | | | UAA | | | MAA | | LAA | Ref 1 | UAA | | | MAA | | | LAA | | | Ref 1 | Ref 2 | Ref 3 | UAA | | MAA | | LAA | | | Ref 1 | Ref 2 |
| Species | Scientific Name | Transect | 1 | 2 | 3 | 1 | 2 | 1 [3] | 1 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 [3] | 2 | 3 | 1 | 1 |
| **Fall 2006** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beaver | *Castor canadensis* | | | | | | | | | X | | | | | | | | | | | | | | | | | | - | |
| Cattle | *Bos taurus* | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | - | |
| Eastern Chipmunk | *Tamias striatus* | | | | | | | | | | | | | | | | X | | | X | | | | | | | | - | |
| Eastern Cottontail | *Sylvilagus floridanus* | | | | | | | | | | | | | | | | | | | X | | X | | | | | | - | |
| Eastern Coyote | *Canis latrans* | | | | | | | | | | | | | | | | | | X | | | X | | | | X | X | - | |
| Gray Squirrel | *Sciurus carolinensis* | | | | | | | | | | | | | | | | X | | X | | | | | | | | | - | |
| Long-tailed Weasel [4] | *Mustela frenata* | | | | | | | | | X | | | | | | | | | | | | | | | | | | - | |
| White-tailed Deer | *Odocoileus virginianus* | | | | | | | | | | | | | | | | | | X | | | X | | | | X | | - | |
| Woodchuck | *Marmota monax* | | | | | | | | | | | | | | | | | | | | | X | | | | | | - | |
| **Winter 2007** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Armadillo | *Dasypus novemcinctus* | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Cattle | *Bos taurus* | | | X | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Eastern Cottontail | *Sylvilagus floridanus* | | | | | | | | | | | | | | | | | | | | | X | | | | X | | | | |
| Eastern Coyote | *Canis latrans* | | | X | | | | | | | | | | | | | | | | | | X | | | | X | | | | |
| Gray Squirrel | *Sciurus carolinensis* | | | | | | X | | | | | | X | | | | | | | | | | | | | | | | | |
| Racoon | *Procyon lotor* | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| White-tailed Deer | *Odocoileus virginianus* | | | X | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Woodchuck | *Marmota monax* | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| **Spring 2007** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Armadillo | *Dasypus novemcinctus* | | | | | | | - | - | | | | | | | X | | | | | | | | | | | | | | - |
| Beaver | *Castor canadensis* | | | | | | | - | - | | | | | | | | | | | | X | | | | | | | | | - |
| Cattle | *Bos taurus* | | X | | | X | | - | - | | | | | | | | | | | | | | | | | | | | | - |
| Eastern Cottontail | *Sylvilagus floridanus* | | | | | | | - | - | | | | | | | | | | | | | X | | | | | | | | - |
| Gray Squirrel | *Sciurus carolinensis* | | | | | | | - | - | | | | | | | X | | | X | | | | | | | | | | | - |
| Racoon | *Procyon lotor* | | | | | | | - | - | | | | X | | | | | | | | | | | | | | | | | - |
| White-tailed Deer | *Odocoileus virginianus* | | | | | | | - | - | | | | | | | X | | | | X | | | | | | | | | | - |
| **Summer 2007** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Armadillo | *Dasypus novemcinctus* | | | | | | | | - | | | | | | | X | | | | | | | | | | | - | | | - |
| Beaver | *Castor canadensis* | | | | | | | | - | | | | | | | | | | | | X | | | | | | - | | | - |
| Bobcat | *Felis rufus* | | | | | | | | - | | | | | | | | | | | X | | | | | | | - | | | - |
| Cattle | *Bos taurus* | | X | | | X | | | - | | | | | | | | | | | | | | | | | | - | | | - |
| Eastern Cottontail | *Sylvilagus floridanus* | | | | | | | | - | | | | | | | | | | | | | | X | | | | - | | | - |
| Gray Squirrel | *Sciurus carolinensis* | | | | | | | | - | | | | | | | X | | | X | | | | | | | | - | | | - |
| Racoon | *Procyon lotor* | | | | | | | | - | | | | X | | | | | | | | | | | | | | - | | | - |
| White-tailed Deer | *Odocoileus virginianus* | | | | | | | | - | | | | | | | X | | | | X | | | | | | | - | | | - |

**Notes:**

[1] Data are from RI/FS Phase 1 Ecological Surveys.

[2] Observations in this table were made during terrestrial wildlife surveys. Aquatic survey observations are not included.

[3] Habitat classification was changed from successional to maintained due to a subsequent change in crop planting rotation.

[4] Field notes recorded observation as a short-tailed weasel, but it was changed to long-tailed based on geographic range.

Fall wildlife surveys were conducted from October 24 to 27, 2006.

Winter wildlife surveys were conducted on February 7, 2007.

Spring wildlife surveys were conducted from May 29 to 30, 2007.

Summer wildlife surveys were conducted from August 12 to 13, 2007.

LAA: lower assessment area

MAA: middle assessment area

PCB: polychlorinated biphenyl

Ref: reference location

RI/FS: remedial investigation/feasibility study

UAA: upper assessment area

-: Indicates that a survey was performed, but no species were observed.

X: Indicates presence during fall, winter, spring, or summer terrestrial wildlife surveys. Empty boxes indicate that no survey was performed along that particular transect.

**Table A-5. Terrestrial Small Mammal Survey Results[1]**
**Anniston PCB Site, Anniston, Alabama**

| Habitat Type: | | | Maintained Field | | | | | | | | | | Forested Floodplain | | | | | | | | | | Successional Field | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Assessment Area: | | | UAA | | | MAA | | | LAA | | | Ref 1 | Ref 2 | Ref 3 | UAA | | | MAA | | | LAA | | | Ref 1 | Ref 2 | Ref 3 | UAA | | | MAA | | | LAA | | | Ref 1 | Ref 2 | Ref 3 |
| **Species** | **Scientific Name** | **Transect** | **1** | **2** | **3** | **1** | **2** | **3** | **1** | **2** | **3** | **1** | **1** | **1** | **1** | **2** | **3** | **1** | **2** | **3** | **1** | **2** | **3** | **1** | **1** | **1** | **1** | **2** | **3** | **1 [2]** | **2** | **3** | **1** | **2** | **3** | **1** | **1** | **1** |
| **Fall 2006** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| House Mouse | *Mus musculus* | | | 0 | 1 | | 0 | 0 | | | | | | | 0 | | 0 | 0 | | 0 | 0 | | | | | | 1 | 0 | 0 | | 0 | | 0 | | | | | |
| Hispid Cotton Rat | *Sigmodon hispidus* | | | 1 | 1 | | 0 | 0 | | | | | | | 0 | | 0 | 0 | | 0 | 0 | | | | | | 2 | 3 | 0 | | 1 | | 0 | | | | | |
| Harvest Mouse | *Reithrodontomys humulis* | | | 1 | 0 | | 1 | 2 | | | | | | | 0 | | 0 | 0 | | 0 | 0 | | | | | | 0 | 0 | 0 | | 0 | | 6 | | | | | |
| Cotton Mouse | *Peromyscus gossypinus* | | | 0 | 0 | | 0 | 0 | | | | | | | 1 | | 2 | 1 | | 1 | 1 | | | | | | 0 | 1 | 1 | | 0 | | 0 | | | | | |
| Eastern Wood Rat | *Neotoma floridana* | | | 0 | 0 | | 0 | 0 | | | | | | | 0 | | 0 | 0 | | 0 | 0 | | | | | | 0 | 0 | 1 | | 0 | | 0 | | | | | |
| Rice Rat | *Oryzomys palustris* | | | 0 | 0 | | 0 | 0 | | | | | | | 0 | | 1 | 0 | | 0 | 0 | | | | | | 0 | 0 | 0 | | 0 | | 0 | | | | | |
| Shorttail Shrew | *Blarina brevicauda* | | | 0 | 0 | | 0 | 1 | | | | | | | 0 | | 0 | 0 | | 0 | 0 | | | | | | 0 | 0 | 0 | | 0 | | 0 | | | | | |
| Total Organisms: | | | | 2 | 2 | | 1 | 3 | | | | | | | 1 | | 3 | 1 | | 1 | 1 | | | | | | 3 | 4 | 2 | | 1 | | 6 | | | | | |
| **Winter 2007** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cotton Mouse | *Peromyscus gossypinus* | | | | | | 0 | 5 | | | | | | | 0 | | 3 | | | | | | | | | | 0 | | | | 0 | | | | | | | |
| Harvest Mouse | *Reithrodontomys humulis* | | | | | | 1 | 0 | | | | | | | 0 | | 1 | | | | | | | | | | 1 | | | | 0 | | | | | | | |
| Hispid Cotton Rat | *Sigmodon hispidus* | | | | | | 0 | 0 | | | | | | | 0 | | 0 | | | | | | | | | | 1 | | | | 0 | | | | | | | |
| House Mouse | *Mus musculus* | | | | | | 0 | 0 | | | | | | | 0 | | 0 | | | | | | | | | | 1 | | | | 0 | | | | | | | |
| Short-tailed Shrew | *Blarina brevicauda* | | | | | | 0 | 1 | | | | | | | 0 | | 0 | | | | | | | | | | 0 | | | | 0 | | | | | | | |
| White-Footed Mouse | *Preomyscus leucopus* | | | | | | 0 | 1 | | | | | | | 0 | | 0 | | | | | | | | | | 0 | | | | 0 | | | | | | | |
| Total Organisms: | | | | | | | 0 | 7 | | | | | | | 0 | | 4 | | | | | | | | | | 3 | | | | 0 | | | | | | | |
| **Spring 2007** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cotton Mouse | *Peromyscus gossypinus* | | | | | | 0 | 0 | | | | 0 | | 0 | 0 | | 0 | | | | | | | 0 | 0 | | 3 | | | | 0 | | | | | | 0 | 0 |
| Deer Mouse | *Peromyscus maniculatus* | | | | | | 0 | 0 | | | | 0 | | 0 | 0 | | 4 | | | | | | | 0 | 1 | | 0 | | | | 0 | | | | | | 0 | 0 |
| Golden Mouse | *Peromyscus nuttalli* | | | | | | 0 | 0 | | | | 0 | | 0 | 0 | | 0 | | | | | | | 1 | 0 | | 0 | | | | 0 | | | | | | 0 | 0 |
| Harvest Mouse | *Reithrodontomys humulis* | | | | | | 0 | 2 | | | | 0 | | 0 | 0 | | 0 | | | | | | | 0 | 0 | | 0 | | | | 0 | | | | | | 0 | 0 |
| Hispid Cotton Rat | *Sigmodon hispidus* | | | | | | 0 | 0 | | | | 0 | | 1 | 0 | | 0 | | | | | | | 0 | 0 | | 1 | | | | 0 | | | | | | 1 | 0 |
| House Mouse | *Mus musculus* | | | | | | 0 | 0 | | | | 0 | | 0 | 0 | | 1 | | | | | | | 0 | 0 | | 0 | | | | 0 | | | | | | 0 | 3 |
| Norway Rat | *Rattus norvegicus* | | | | | | 0 | 0 | | | | 0 | | 3 | 0 | | 0 | | | | | | | 0 | 0 | | 0 | | | | 1 | | | | | | 0 | 0 |
| White-footed Mouse | *Preomyscus leucopus* | | | | | | 3 | 0 | | | | 0 | | 0 | 0 | | 0 | | | | | | | 0 | 0 | | 0 | | | | 0 | | | | | | 0 | 0 |
| Total Organisms: | | | | | | | 0 | 2 | | | | 0 | | 4 | 0 | | 5 | | | | | | | 1 | 1 | | 4 | | | | 1 | | | | | | 1 | 3 |

**Notes:**

[1] Data are from RI/FS Phase 1 Ecological Surveys.

[2] This successional field transect was reclassified as a maintained field due to a change in crop planting rotation between the winter and spring surveys.

**Fall**

Small mammal surveys were conducted from October 24 to November 1, 2006.

**Winter**

Small mammal surveys were conducted from February 6 to 7, 2007.

**Spring**

Small mammal surveys were conducted from May 15 to 18, 2007.

LAA: lower assessment area

MAA: middle assessment area

PCB: polychlorinated biphenyl

Ref: reference location

RI/FS: remedial investigation/feasibility study

UAA: upper assessment area

Blank indicates none observed.

# APPENDIX B

## Bioaccumulation Factor/Uptake Model Development

ARCADIS Design & Consultancy for natural and built assets

Pharmacia LLC and Solutia Inc.

# BASELINE ECOLOGICAL RISK ASSESSMENT FOR OPERABLE UNIT 4

## Appendix B - Bioaccumulation Factor/ Model Development

Anniston PCB Site, Anniston, Alabama

October 2016

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# ATTACHMENT

Attachment 1 Statistical Evaluation of Regression Analyses

# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| AA | assessment area |
| Arcadis | Arcadis U.S., Inc. |
| BAF | bioaccumulation factor |
| $BAF_i$ | individual tissue sample bioaccumulation factor |
| BERA | baseline ecological risk assessment |
| BSA | biological sampling area |
| BSAF | biota-sediment accumulation factor |
| cm | centimeters |
| COPC | constituent of potential concern |
| DL-PCB | dioxin-like polychlorinated biphenyl |
| d/kg | day per kilogram |
| dw | dry weight |
| FSP | field sampling plan |
| kg | kilogramKM Kaplan-Meier |
| mg/d | milligrams per day |
| mg/kg | milligrams per kilogram |
| ng/g | nanograms per gram |
| OC | organic carbon |
| OEHHA | Office of Environmental Health Hazard Assessment |
| OU | Operable Unit |
| p | probability of Type 1 error |
| PCB | polychlorinated biphenyl |
| PCDD/PCDF | polychlorinated dibenzo-p-dioxin/polychlorinated dibenzofuran |
| $r^2$ | coefficient of determination |
| TCos | transfer coefficients |
| TOC | total organic carbon |
| UAA | upper assessment area |
| USEPA | United States Environmental Protection Agency |
| ww | wet weight |

# 1 INTRODUCTION

This appendix to the *Baseline Ecological Risk Assessment for Operable Unit 4* (OU-4 BERA) describes the development of bioaccumulation factors (BAFs) and media-to-prey uptake regressions (bioaccumulation models) used in the exposure dose calculations to estimate risk to ecological receptors at Operable Unit 4 (OU-4). The OU-4 BERA was conducted to evaluate the aquatic and terrestrial exposure pathways for ecological receptors and potential risks associated with identified constituents of potential concern (COPCs) (i.e., polychlorinated biphenyls [PCBs], mercury, barium, chromium, cobalt, lead, and vanadium) within OU-4. Polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans (PCDD/PCDFs) and dioxin-like PCBs (DL-PCBs) were also evaluated at the request of the United States Environmental Protection Agency (USEPA), and the derivation of BAFs for PCDD/PCDF and DL-PCB is presented in Appendix F of the OU-4 BERA.

Dietary exposure for a range of feeding guilds of birds and mammals was evaluated based on COPC exposure from soil, sediment, and contaminated prey tissues. To evaluate the dietary exposure pathways to aquatic and terrestrial-feeding receptors, COPC concentrations in tissues of the prey were modeled for the identified receptors.

The prey items for the representative aquatic receptors selected for evaluation in the OU-4 BERA were aquatic plants, benthic invertebrates, oligochaetes, emergent insects, crayfish, mollusks, frogs, snakes, and fish (represented by forage fish, predator fish, and/or all fish[1]). The prey items for the representative terrestrial receptors selected for evaluation in the OU-4 BERA were terrestrial plants, terrestrial invertebrates (including earthworms, terrestrial- and riparian-feeding spiders, and insects), and small mammals. In addition, some receptors were exposed to a mixed diet of aquatic and terrestrial prey. Table B-1 summarizes the aquatic and terrestrial receptors evaluated in the OU-4 BERA and the assumed dietary components of each receptor's diet.

Biotic tissue data and sediment and floodplain soil data were collected as a part of the Phase 2 field sampling in 2009. These data were collected primarily to support the evaluation of potential risk to the identified ecological receptors from dietary exposure in OU-4. Details of the approach for this sampling are provided in the *Phase 2 Field Sampling Plan for OU-4* (FSP; Arcadis U.S., Inc. [Arcadis] 2009). Additionally, historical samples collected in 2007 and 2009 as part of the Phase 1 FSP (Arcadis BBL 2006) located near the 2009 Phase 2 tissue and sediment/soil samples were included in the BAF dataset at the request of USEPA (USEPA 2016). The data collected and used in this analysis are described in Section 2.1.

The bioaccumulation model represents the relationship between the abiotic media (in this case, creek sediment, floodplain soil, and riparian soil) and the measured prey tissue concentration. When available data are sufficient, a regression analysis to predict tissue concentrations as a function of the abiotic media concentration is preferred. The regression takes the following form (e.g., for a linear model):

[1] Bottom-feeding fish were not included as a dietary item; therefore, BAFs for those fish were not needed in the foodweb models.

Equation 1:

*tissue concentration (y) = slope (m) of the line * exposed sediment concentration (x) + the y intercept (b)*

Where:

$C_{tissue}$ y = concentration of constituent in tissue (milligrams of constituent per kilogram tissue; mg/kg $_{tissue}$)

x concentration of constituent in sediment or soil (mg of constituent per kg of sediment or soil; mg/kg $_{sediment\ or\ soil}$)

m slope of regression (unitless)

b y intercept (unitless)

If available data are not sufficient, or if regression analyses do not result in a positive predictive relationship between abiotic media and tissue (i.e., not statistically significant or low coefficient of determination [$r^2$] values), prey tissue concentrations can be estimated using BAFs that relate concentrations in abiotic media to tissue concentrations through a simple ratio. As a convention herein, ratios based on wet weight (ww) or dry weight (dw) tissue and abiotic media concentrations are referred to as BAFs. Ratios based on lipid-normalized tissue and organic carbon (OC)-normalized sediment are referred to as biota-sediment accumulation factors (BSAFs).

As an example, a BAF can be calculated as follows:

Equation 2:

$C_{insect} = BAF_{insect} \times PCB_{sediment}$

Where:

$C_{insect}$ concentration of PCB in insect tissue (milligrams of PCB per kilogram tissue; mg/kg $_{tissue}$)

$PCB_{sediment}$ concentration of PCB in sediment or soil (milligram of PCB per kilogram of sediment or soil; mg/kg $_{sediment\ or\ soil}$)

$BAF_{insect}$ bioaccumulation factor from sediment-to-insect (kilogram $_{sediment\ or\ soil}$/kilogram $_{tissue}$)

When BAFs are used, the predictability of the selected BAF is acknowledged to be uncertain due to the lack of relationship between the soil/sediment and tissue data in the regression analysis. The approach for development of BAFs/bioaccumulation models for PCBs and mercury was similar to the approach used to develop BAFs/ bioaccumulation models for the remaining COPCs, as described in more detail below.

The following sections describe the overall uptake development approach (Section 2), and available data and analysis used to develop PCB and mercury prey-tissue bioaccumulation models for aquatic species (Section 3) and terrestrial species (Section 4). The prey-tissue bioaccumulation models for non-mercury metals are discussed in Section 5. BAFs for bird eggs are discussed in Section 6.

# 2 OVERVIEW OF UPTAKE MODEL DERIVATION

## 2.1 Data Use

Three assessment areas (AAs; upper assessment area, middle assessment area, and lower assessment area) were identified within OU-4 based on habitat surveys conducted in the *Phase 1 Ecological Survey Report* (Arcadis BBL 2007). Three aquatic biological sampling areas (BSAs) and nine terrestrial BSAs were identified within each of the three AAs for a total of nine aquatic BSAs and 27 terrestrial BSAs within OU-4 that were sampled as part of the 2009 Phase 2 sampling in support of BAF development. Soil and sediment sampling locations from OU-4 are presented on Figures B-1a through B-1g. Tissue samples were collected throughout each of the terrestrial and aquatic BSAs (indicated by green or blue hatching on the figures, respectively) and composited. Samples were also collected from three aquatic and three terrestrial reference locations, as presented on Figures B-1h through B-1j.

As the data are not co-located, soil/sediment samples from the Phase 1 (2007) and Phase 2 (2009) investigations located within or nearby each BSA were grouped and evaluated with the tissue data from the same BSA. Older abiotic media data collected prior to 2007 were not included in the BAF dataset, as surface conditions in the creek, riparian areas, and floodplain may have been altered by physical processes over time. These data groupings were identified by USEPA (2016) for use in BAF development, and are summarized in Table B-2 for sediment and Table B-3 for soil.

Initially, regression analysis was performed on each tissue type to determine whether COPC concentrations in abiotic media are predictive of tissue residues in OU-4 biota. When the regressions were statistically significant, predictive, and had a positive slope, the regressions were used to estimate COPC uptake into OU-4 prey tissues. Otherwise, median BAFs were developed for each of the three AAs based on the BSA data groupings. These two approaches (regression analysis and median BAFs) follow recommendations from USEPA (2016) and are described in more detail below.

## 2.2 Regression Analysis

Regression analysis was conducted for PCBs and mercury only, as the datasets for the remaining COPCs are not sufficient for statistical evaluation with regression. OU-4 and reference data groupings were included in the regression dataset. Samples with concentrations less than the laboratory reporting limit were excluded from the regression dataset. Thus, predictive relationships were developed, where possible, using data where COPCs were detected in both abiotic and biotic media. Data pairs for the regression analysis consisted of mean abiotic media concentrations for each BSA paired with mean tissue concentrations for each BSA. The resulting regression equations are equivalent to regressions derived by evaluating BSA mean abiotic media concentrations paired with individual tissue sample results from the BSAs. Tissue data were evaluated on a dry weight, wet weight, and lipid-normalized basis. Soil/sediment data were evaluated on a dry weight, total organic carbon (TOC)-normalized, and/or fines-normalized basis. In general, sediment/soil PCBs were measured as Aroclors. In a subset of samples in six of the nine BSAs, PCBs were measured as homologs. The homolog data were also considered in the regression analysis. Linear regression was performed on untransformed and log-transformed data. Relationships were considered to be predictive if the resulting $r^2$ value was greater than 0.3 (indicating that 30% of the tissue COPC concentration can be explained by the soil/sediment concentration). For those data pairings

with an $r^2$ value greater than 0.3, the data were plotted, and statistical evaluation of positive relationships was conducted. Relationships were considered to be statistically significant if the p-value was less than 0.1 (indicating that there is a 90% confidence in the $r^2$ value). Regression equations for predictive, statistically significant, positive relationships were preferentially selected to model uptake into prey tissue in the OU-4 food web models.

## 2.3 Median BAF Calculation

When a significant predictive relationship did not exist for a specific tissue type, BAFs were calculated to model uptake into prey tissue. For the BAFs, all detected and non-detected soil/sediment data within the BSAs were included in the evaluation. The mean abiotic media concentration was calculated for each BSA using Kaplan-Meier (KM) statistics to account for any non-detected results. Only detected concentrations in tissue were included in the BAF calculations. BAFs were calculated for each OU-4 BSA using the following approach:

1. Calculate individual tissue samples BAFs ($BAF_i$) using KM mean soil/sediment concentration in the BSA, individual tissue sample, and Equation 2.

2. Calculate median of the $BAF_i$ for all individual samples included in an AA. This results in an AA BAF that will be used to model uptake in that AA in the absence of a significant predictive relationship (see Section 2.2).

3. If data are not sufficient to calculate an AA BAF, calculate a site-wide median BAF using $BAF_i$ values from all OU-4 BSAs. Reference BSAs are not included in the median BAF calculation.

4. If data are not sufficient to calculate a site-wide BAF:

    a. If a COPC was never detected in OU-4 tissue, then one-half the maximum laboratory reporting limit for the site-wide dataset is used as an estimate of prey tissue concentrations.

    b. If a COPC was detected in OU-4 tissue, but lacks data for soil/sediment in the same BSA, then the site-wide average ratio BAF is calculated by dividing the average detected tissue concentration by the average KM mean concentrations in the BSAs.

Median BAFs based on AAs were selected for PCBs and mercury as requested by USEPA (2016). This approach also provides a prey tissue estimation method on the same spatial scale as for the measured tissue concentrations, which are also being used to estimate dietary exposures. Due to the small size of the tissue datasets for each BSA, tissue exposure concentrations are calculated by AA. Median BAFs for each AA provide hazard estimates for wildlife based on dietary exposures that are comparable to the hazard estimates based on measured tissue concentrations.

Median BAFs were calculated for PCBs and mercury, as well as for the remaining COPCs. For metals and PCDD/PCDFs, the BAF datasets were small, and site-wide median BAFs were selected instead of AA median BAFs. In some cases, site-wide median BAFs could not be developed for the other metals. For these COPCs and tissues, alternate BAF methods were employed, as described in more detail below.

For PCBs and mercury, uncertainty in the median BAFs was estimated by calculating 95% confidence limits. Non-parametric confidence limits for percentiles were calculated using the methods of Conover (1980) based on the ranked data and the binomial distribution. One-sided upper and lower confidence limits for the median were calculated using the normal approximation of the binomial probability, as in the following equations:

Equation 3: 95% Lower Confidence Limit = x(*j*), where $j = (0.5 \times n) - 1.645 \times (0.5^2 n)^{\wedge 0.5}$

Equation 4: 95% Upper Confidence Limit = x(*k*), where $k = (0.5 \times n) + 1.645 \times (0.5^2 n)^{\wedge 0.5}$

Where:

j rank of the *j*th observation, x(*j*)

k rank of the *k*th observation, x(*k*)

n sample size

A minimum of nine samples are required to calculate the confidence limits. For datasets with fewer than nine samples, confidence limits were not estimated.

## 2.4 Literature Uptake Relationships

In some cases for PCBs and mercury, USEPA (2016) recommended the use of specific literature uptake factors to model prey tissue concentrations when site data were not sufficient for regression and/or BAF development. The following uptake factors were selected for use in the OU-4 BERA:

- PCBs and plants: Ficko et al. (2013) present co-located plant and soil PCB data for willows growing in Northern Labrador. The resulting uptake relationship was used to estimate PCB uptake into terrestrial plants. From Ficko et al. (2013):

  Equation 5: plant wet weight (nanograms per gram [ng/g] ww) = 0.1433 (soil ng/g dw) + 34.546 ($r^2$ = 0.375)

- PCBs and terrestrial insects: Blankenship et al. (2005) present uptake data for terrestrial invertebrates (excluding worms). A BAF of 0.17 based on the ratio of the mean tissue concentration to mean soil concentration was selected. An assumption of 30% solids, based on OU-4 data for crickets and grasshoppers, was used to convert wet weight concentrations reported by Blankenship et al. (2005) to dry weight.

- Mercury and plants: Pant et al. (2011) present data for *Impatiens walleriana* plants grown in mercury-contaminated soil from Oak Ridge, Tennessee for 90 days. A BAF of 0.05 was selected based on uptake to leaves and stems.

- Mercury and aquatic worms: Gilmour et al. (2013) exposed *Lumbriculus variegatus* to mercury-contaminated sediments in-situ in field microcosms. A BAF of 1.0 was selected based on worm uptake in un-amended South River sediment.

# 3 PCB AND MERCURY BAFS/ BIOACCUMULATION MODELS FOR AQUATIC PREY

Six discrete sediment samples were collected from each BSA and reference location. Four field duplicates were collected, one in each AA and one in the reference location. Field duplicates were averaged for the purposes of this analysis. In addition to the sediment data collected as a part of the biota investigation, two composite sediment samples (HHFL-04 and HHFL-05) that were collected from within or in close proximity to the OU-4 BSAs, and three discrete historical samples (ECO-REF-01 through ECO-REF-03) collected from the reference areas were identified. These samples were also included in the sediment datasets for the BSAs (Table B-2). Tables B-4 and B-5 summarize the sediment and biotic tissue data for PCBs and mercury, respectively, and present the median BAF calculations on a dry weight basis along with 95% confidence limits. Sediment and fish tissue data for PCBs and mercury are presented in Tables B-6 and B-7, respectively, which also include the median BAF calculations on a dry weight basis and 95% confidence limits. A summary of the aquatic tissue percent solids data used to convert tissue data to a dry weight basis is included in Table B-8. Figures B-1a through B-1g show the locations of each BSA as well as the locations of the sediment data collected from within or in close proximity to each BSA. Figures B-1h through B-1j show the reference locations.

PCBs were not detected in sediment at any of the three reference locations. Mercury was detected in a small number of reference area sediments. As discussed above, the regression analyses were conducted using only detected sample results in the OU-4 and reference BSAs. As such, reference data were not included in the PCB regression analysis, but were included in the mercury regression analysis.

Regression analyses are presented in Tables B-9 and B-10 for untransformed and log-transformed PCB data, respectively. Tissue data were evaluated on a dry weight, wet weight, and lipid-normalized basis. Sediment data were evaluated on a dry weight, TOC-normalized, and/or fines-normalized basis. Sediment PCBs were measured as Aroclors, in most cases. In a subset of samples in six of the nine BSAs, PCBs were measured as homologs. The homolog data were also considered in the regression analysis. Datasets for the regression analyses are presented in Attachment 1. Data plots and regression equations for the predictive data pairs ($r^2$>0.3) are presented in Figure B-2 and B-3 for untransformed and log-transformed data, respectively. Statistical evaluation of the regressions was conducted for positive predictive ($r^2$ > 0.3) relationships, with p values less than 0.1 considered to be significant. Results of the statistical evaluations are presented in Attachment 1. For mercury, the regression analyses are presented in Tables B-11 and B-12, data plots for predictive relationships are presented in Figures B-4 and B-5, and statistical evaluations of the regressions are presented in Attachment 1.

Regression analyses were also performed for PCBs and mercury with percent TOC and percent fines (Figure B-6).

In addition to the field-collected benthic invertebrate data, a laboratory bioaccumulation test was conducted using *Lumbriculus variegatus* and site sediments containing a range of PCB concentrations. The specific methods and results for the laboratory bioaccumulation study are provided in the final report from the laboratory (Ingersoll et al. 2014). Laboratory sediments were analyzed as both homologs and Aroclors. Tissue was measured as homologs and is provided as wet weight. The laboratory bioaccumulation data for homologs and Aroclors are summarized in Tables B-13 and B-14, respectively.

Data plots and regression equations are presented in Figures B-7 and B-8 for homolog and Aroclor data, respectively. These data were used to estimate uptake from sediment-to-oligochaetes in OU-4.

The BAFs and bioaccumulation models developed for PCBs and mercury are based on samples collected from OU-4 and are therefore considered representative of bioaccumulation conditions at OU-4. The following sections describe the available data and analysis used to develop PCB and mercury aquatic prey-tissue BAFs/bioaccumulation models.

## 3.1 Aquatic Plants

Aquatic plants consisted primarily of the stems and leaves of alligator weed (*Alternanthera philoxeroides*). Three composite tissue samples were collected from BSAs. The arithmetic mean of detected composites within each BSA was taken and associated with the arithmetic mean of the detected sediment concentrations for that BSA for the regression analysis. For $BAF_i$ calculation, individual detected tissue samples were compared to the KM mean of all sediment samples in the BSA.

The regression analyses for PCBs (Tables B-9 and B-10) and mercury (Tables B-11 and B-12) did not result in a significant, predictive relationship between sediment and aquatic plant tissue on a dry weight or on an OC- and lipid-normalized (PCB only) basis, or between sediment on a percent fines-normalized basis or plant tissue on a wet weight basis. Because a predictive relationship was not identified, median BAFs were calculated for each AA and for OU-4 (site-wide) (Table B-4 for PCBs, Table B-5 for mercury). The AA and site-wide median BAFs are summarized below:

| Area | PCB Median BAFs [a] | Mercury Median BAFs [a] |
|---|---|---|
| Upper Assessment Area | 0.60 | 0.09 |
| Middle Assessment Area | 0.42 | 0.07 |
| Lower Assessment Area | 0.26 | 0.08 |
| Site-wide [b] | 0.45 | 0.08 |

a. Median BAFs presented on dry weight basis.
b. The site-wide BAF was not needed, as median BAFs were available for all AAs.

## 3.2 Emergent Insects

Emergent insects collected consisted primarily of craneflies (Tipulidae), damselflies (Odonata), and dragonflies (Epiprocta). Three composite tissue samples were collected from BSAs. The arithmetic mean of detected composites within each BSA was taken and associated with the arithmetic mean of the detected sediment sample concentrations for that BSA for the regression analysis. For $BAF_i$ calculation, individual detected tissue samples were compared to the KM mean of all sediment samples in the BSA.

The regression analyses for PCBs (Tables B-9 and B-10) and mercury (Tables B-11 and B-12) did not result in a predictive relationship between sediment and emergent insect tissue on a dry weight or on an OC- and lipid-normalized (PCB only) basis, or sediment on a percent fines-normalized basis or emergent insect tissue on a wet weight basis. Because a predictive relationship was not identified, median BAFs

were calculated for each assessment area and for OU-4 (site-wide) (see Table B-4 for PCBs, Table B-5 for mercury). The AA and site-wide median BAFs are summarized below:

| Area | PCB Median BAFs [a] | Mercury Median BAFs [a] |
|---|---|---|
| Upper Assessment Area | 20.18 | 0.33 |
| Middle Assessment Area | 0.53 | 0.13 |
| Lower Assessment Area | 0.56 | 0.13 |
| Site-wide | 0.68 | 0.14 |

a. Median BAFs presented on dry weight basis.

Note that the PCB BAFs from EUA-02 and EUA-03 (UAA), consisting of cranefly tissue only, are not consistent with BAFs from the other BSAs, which are composite samples of mixed damselfly, dragonfly, and/or cranefly tissue. The disparity between PCB concentrations in craneflies and mixed species warranted further consideration. Natural history information on the orders collected indicates that, in general, larval craneflies primarily feed on vegetation and algal and microscopic organisms low in the food chain and adult craneflies rarely feed during their short 10 to 15-day life span (Newton 2008, Merritt et al. 2008). They can also feed and reside in both aquatic and terrestrial environments. This is in contrast to odonates, which are mainly predaceous and prey upon various trophic levels within the food chain throughout their nymph development stage and on insects in their adult stage (Peckarsky et al. 1990). This information is not consistent with the observed concentrations, as species feeding lower in the food chain (e.g., on plant matter) would not be expected to be exposed to higher PCB concentrations than predator species. Based on the feeding strategy for craneflies, it is unlikely that the sediment in EUA-02 and EUA-03 is the source of the elevated PCB concentrations measured in cranefly tissue from these areas.

## 3.3 Benthic Invertebrates

Benthic invertebrate samples collected from each of the nine BSAs consisted of Odonata larvae. Three composite benthic invertebrate samples were collected in each of the nine BSAs. For the regression analysis, the arithmetic mean of the detected composites within each BSA was taken and associated with the arithmetic mean of the detected sediment sample concentrations for that BSA. For $BAF_i$ calculation, individual detected tissue samples were compared to the KM mean of all sediment samples in the BSA.

The regression analyses for PCBs (Tables B-9 and B-10) did not result in a predictive relationship between sediment and benthic invertebrate tissue on a dry weight or on an OC and lipid-normalized (PCB only) basis. However, PCBs in sediment normalized to percent fines were correlated to benthic invertebrate tissue on a wet weight basis (Table B-9). The correlation to wet weight tissue was considered to be statistically significant (p=0.07). However, percent fines in sediment did not correlate well with PCB

concentrations in sediment (Figure B-6). Thus, it was not possible to estimate a concentration for any other tissue type based on fines-normalized sediment. Because no other element of any receptor diet is based on percent fines, and because the risk calculations in the OU-4 BERA require a fixed assumption about the percent of fines in sediment, it was not feasible to incorporate this fines-normalized relationship into the overall dose estimation in the OU-4 BERA. An evaluation of this uncertainty is provided in Section 6.2 of the OU-4 BERA.

Based on these analyses, median BAFs were calculated for PCBs for each assessment area and for OU-4 (site-wide) (Table B-4). The AA and site-wide median BAFs for PCBs are summarized below:

| Area | PCB Median BAFs [a] |
|---|---|
| Upper Assessment Area | 1.14 |
| Middle Assessment Area | 1.14 |
| Lower Assessment Area | 0.58 |
| Site-wide [b] | 0.78 |

a. Median BAFs presented on dry weight basis.
[b] The site-wide BAF was not needed, as median BAFs were available for all AAs.

For mercury, the regression analysis (Tables B-11 and B-12) found that mercury in sediment (log-transformed, dry weight basis) was predictive of wet weight benthic invertebrate tissue concentrations (log-transformed; $r^2$=0.59, p=0.003). Additionally, for the log-transformed data, sediment mercury (fines-normalized basis) and benthic invertebrate tissue (wet weight and dry weight basis) resulted in $r^2$ values greater than 0.3, but lower than 0.59. The regression equation based on sediment (dry weight) and wet weight benthic invertebrates (Figure B-5) was selected to predict mercury in benthic invertebrate tissues:

Equation 6: log (tissue, ww) = 0.3083 * log (sediment, dw) - 1.2447 ($r^2$=0.59)

The predicted wet weight benthic invertebrate tissue concentration was converted to dry weight for use in the food web model by dividing by the average proportion solids (0.18 g solids/g wet weight) of OU-4 benthic invertebrate (Odonata) data.

## 3.4 Oligochaetes

Oligochaete data were not collected from OU-4. However, results of the laboratory bioaccumulation tests with *Lumbriculus variegatus* and OU-4 sediments can be used to estimate PCB uptake into aquatic worms. For the laboratory *Lumbriculus variegatus* data, regression analyses demonstrated statistically significant predictive relationships between sediment PCB concentrations and *Lumbriculus variegatus* tissue concentrations. Regressions are shown on Figures B-7 and B-8. The statistical evaluation of these regression analyses is provided in Attachment 1. The regression equation from the laboratory study was selected to estimate oligochaete tissue concentrations for the OU-4 BERA dose calculations. Because sediment Aroclor vs. tissue homolog for both the log-normalized wet weight and lipid-normalized worm

tissue basis had good fit, the regression equation using non-normalized field data was used for simplicity as follows:

Equation 7: log (tissue Homologs, mg/kg ww) = 0.6272* log (sediment Aroclors, mg/kg dw) + 1.0224 ($r^2$=0.8947; P = 0.0000033)

The predicted wet weight worm tissue concentration was converted to dry weight for use in the food web model by dividing by the average proportion solids (0.19 g solids/g wet weight) of *Lumbriculus variegatus* from the laboratory data.

For mercury, site-specific laboratory uptake data were not unavailable. However, USEPA (2016) recommended that the BAF of 1 for *Lumbriculus variegatus* from Gilmour et al. (2013) be used to evaluate uptake of mercury in OU-4. Therefore, the median AA BAFs were not selected. As recommended by USEPA, oligochaete uptake of mercury was estimated using a BAF of 1 (Gilmour et al. 2013).

## 3.5 Crayfish

Crayfish were collected from all nine BSAs. One to three composite tissue samples were collected opportunistically in emergent vegetation, run, or riffle habitats in each BSA. For the regression analysis, the arithmetic mean of the detected tissue composites within each BSA was taken and associated with the arithmetic mean of the detected sediment sample concentrations for that BSA. For $BAF_i$ calculation, individual detected tissue samples were compared to the KM mean of all sediment samples in the BSA.

For PCBs, the regression analyses (Tables B-9 and B-10) resulted in a predictive relationship between sediment homologs and crayfish tissue for PCBs on a lipid-normalized wet weight basis. However, this correlation was negative, as indicated by the negative slope (Figures B-2 and B-3). The regressions for PCBs were not predictive for other data combinations.

Because a positive predictive relationship was not identified, median BAFs were calculated for each assessment area and for OU-4 (site-wide) (Table B-4). The AA and site-wide median BAFs for PCBs are summarized below:

| Area | PCB Median BAFs [a] |
|---|---|
| Upper Assessment Area | 1.92 |
| Middle Assessment Area | 1.37 |
| Lower Assessment Area | 0.58 |
| Site-wide [b] | 0.93 |

a. Median BAFs presented on dry weight basis.
b. The site-wide BAF was not needed, as median BAFs were available for all AAs.

For mercury, the regression analysis (Tables B-11 and B-12) found that mercury in sediment (log transformed, dry weight basis) was predictive of dry weight crayfish tissue concentrations (log-transformed; $r^2$=0.51, p=0.02). For the log-transformed data, mercury in crayfish tissue (wet weight basis) was also predicted by sediment (dry weight basis) and sediment-normalized to fines (dry weight basis),

however the $r^2$ values were less than 0.51. The regression equation based on sediment (dry weight) and dry weight crayfish (Figure B-5) was selected to predict mercury in crayfish tissues:

Equation 8: log (tissue, dw) = 0.2185 * log (sediment, dw) – 0.7272 ($r^2$=0.514)

## 3.6 Molluscs

Molluscs were collected from all nine BSAs. Efforts were made to collect molluscs in either emergent vegetation, run, or riffle habitats in each BSA. For the regression analysis, the arithmetic mean of the detected composites within each BSA was taken and associated with the arithmetic mean of the detected sediment sample concentrations for that BSA. For $BAF_i$ calculation, individual detected tissue samples were compared to the KM mean of all sediment samples in the BSA.

The regression analyses for PCBs (Tables B-9 and B-10) and mercury (Tables B-11 and B-12) did not result in a significant, predictive relationship between sediment and mollusc tissue on a dry weight or on an OC and lipid-normalized (PCB only) basis, or between sediment on a percent fines-normalized basis or mollusc tissue on a wet weight basis. Because a predictive relationship was not identified, median BAFs were calculated for each assessment area and for OU-4 (site-wide) (Table B-4 for PCBs, Table B-5 for mercury). The AA and site-wide median BAFs are summarized below:

| Area | PCB Median BAFs [a] | Mercury Median BAFs [a] |
|---|---|---|
| Upper Assessment Area | 10.53 | 0.32 |
| Middle Assessment Area | 4.73 | 0.26 |
| Lower Assessment Area | 7.24 | 0.83 |
| Site-wide [b] | 7.24 | 0.33 |

a. Median BAFs presented on dry weight basis.
b. The site-wide BAFs were not needed, as median BAFs were available for all AAs.

## 3.7 Frogs

Efforts were made to collect frogs in all nine BSAs. However, samples were not found in all areas. Tables B-4 and B-5 summarize the data available by BSA for frogs and toads. Species collected include southern leopard frogs (*Thobates sphenocephalus*), bullfrogs (*Rana catesbeiana*), bronze or green frogs (*Rana clamitans*), American toad (*Anaxyrus americanus),* and northern cricket frogs (*Acris crepitans*). For the regression analysis, the arithmetic mean of the detected tissue composites within each BSA was taken and associated with the arithmetic mean of the detected sediment sample concentrations for that BSA. For $BAF_i$ calculation, individual detected tissue samples were compared to the KM mean of all sediment samples in the BSA.

For PCBs, the regression analyses (Tables B-9 and B-10) did not resulted in a predictive significant relationship between sediment PCBs (dry weight or OC-normalized basis) and frog tissue (dry weight, wet weight, or lipid-normalized wet weight basis). Because a predictive relationship was not identified, median BAFs were calculated for each AA and for OU-4 (site-wide) (Table B-4).

The AA and site-wide median BAFs for PCBs are summarized below:

| Area | PCB Median BAFs [a] |
|---|---|
| Upper Assessment Area | 8.67 |
| Middle Assessment Area | 2.49 |
| Lower Assessment Area | 2.18 |
| Site-wide [b] | 3.36 |

a. Median BAFs presented on dry weight basis.
b. The site-wide BAF was not needed, as median BAFs were available for all AAs.

For mercury, the regression analysis (Tables B-11 and B-12) found that mercury in sediment was predictive of frog tissue concentrations for all untransformed and log-transformed data pairs. The highest $r^2$ values were found for log-transformed data (Table B-12). The highest $r^2$ value was found for log transformed frog tissue (dry weight basis) and mercury in sediment normalized to fines ($r^2 = 0.88$, $p=0.0002$). However, as noted above, percent fines in sediment did not correlate well with PCB concentrations in sediment (Figure B-6). Thus, it was not possible to estimate a concentration for tissue type based on fines-normalized sediment. Because no other element of any receptor diet is based on percent fines, and because the risk calculations in the OU-4 BERA require a fixed assumption about the percent of fines in sediment, it was not feasible to incorporate this fines-normalized relationship into the overall dose estimation in the OU-4 BERA. An evaluation of this uncertainty is provided in Section 6.2 of the OU-4 BERA.

The next highest $r^2$ value for mercury uptake was for log transformed data for frogs (dry weight basis) and mercury in sediment (dry weight basis; $r^2=0.62$, $p=0.01$). The regression equation based on log transformed sediment (dry weight) and dry weight frog tissue (Figure B-5) was selected to predict mercury in frog tissues:

Equation 9: log (tissue, dw) = 0.4577 * log (sediment, dw) – 0.2419 ($r^2=0.62$)

## 3.8 Snakes

Water snakes were sampled in all nine BSAs. Efforts were made to collect tissues in each BSA. However, samples were not found in all areas. Tables B-4 and B-5 summarize the data available by BSA for water snakes. Snake species collected include midland water snake (*Nerodia sipedon*), queen snake (*Regina septemvittata*), cottonmouth (*Agkistrodon piscivorus*), and yellow-bellied water snake (*Nerodia erythrogaster*)—all aquatic species. For the regression analysis, the arithmetic mean of the detected tissue samples within each BSA was taken and associated with the arithmetic mean of the detected sediment sample concentrations for that BSA. For $BAF_i$ calculation, individual detected tissue samples were compared to the KM mean of all sediment samples in the BSA.

For PCBs, the regression analyses (Tables B-9 and B-10) resulted in a predictive relationship between sediment PCBs and snake tissue for most data combinations of log-transformed data. However, there was

a negative relationship between sediment and snake tissue in all cases, as indicated by the negative regression slopes (Figures B-2 and B-3). The regressions for PCBs were not predictive for untransformed data combinations.

Because a positive predictive relationship was not identified, median BAFs were calculated for each AA and for OU-4 (site-wide) (Table B-4). The AA and site-wide median BAFs for PCBs are summarized below:

| Area | PCB Median BAFs [a] |
|---|---|
| Upper Assessment Area | 83.29 |
| Middle Assessment Area | 62.72 |
| Lower Assessment Area | 24.54 |
| Site-wide [b] | 24.54 |

a. Median BAFs presented on dry weight basis.
b. The site-wide BAF was not needed, as median BAFs were available for all AAs.

For mercury, the regression analysis (Tables B-11 and B-12) found that mercury in sediment was predictive of snake tissue concentrations for log-transformed data pairs. The highest $r^2$ value of 0.41 (p=0.05), was found for snake tissue (wet weight basis) and mercury in sediment (dry weight basis). The regression equation based on sediment (dry weight) and wet weight snake tissue (Figure B-5) was selected to predict mercury in frog tissues:

Equation 10: log (tissue, ww) = 0.2167 * log (sediment, dw) – 0.5347 ($r^2$=0.4137)

The predicted wet weight snake tissue concentration was converted to dry weight for use in the food web model by dividing by the average proportion solids (0.26 g solids/g wet weight) of OU-4 snake data.

## 3.9 Fish

Three different categories of fish tissue were collected for OU-4: forage fish, bottom fish, and predator fish. Uptake was evaluated for each class individually. Additionally, the fish data for each class were combined and evaluated together as “all fish”. Fish were collected opportunistically from each BSA and reference area and were not specifically associated with habitat types. For the regression analysis, the arithmetic mean of the detected tissue samples within each BSA was taken and associated with the arithmetic mean of the detected sediment concentrations for that BSA. For $BAF_i$ calculation, individual detected tissue samples were compared to the KM mean of all sediment samples in the BSA.

Forage fish collected from each BSA and reference location consisted of a variety of shiner species: Alabama hog sucker (*Hypentelium etowanum*), large-scale stoneroller (*Campostoma oligolepis*), southern studfish (*Fundulus stellifer*), black spotted topminnow (*Fundulus olivaceus*), and black redhorse (*Moxostoma duquesnei*). The size for these fish ranged from approximately 4 to 15 centimeters (cm). Bottom fish samples collected from each of the nine BSAs consisted of discrete whole body samples of black redhorse. The size of fish collected ranged from 20 to 38 cm. Predator fish samples that were collected from each of the nine BSAs primarily consisted of discrete whole body samples of spotted bass (*Micropterus punctulatus*). The size of fish collected ranged from 23 to 43 cm.

For PCBs, although the regression analyses (Tables B-9 and B-10) indicate predictive relationships for some fish data pairs (forage fish, predator fish, and all fish [wet and dry weight basis] and sediment Aroclors normalized to TOC, bottom fish [dry weight basis] and sediment Aroclors normalized to fines, log-transformed bottom fish [dry weight basis] and sediment Aroclors [dry weight basis], and predator fish and all fish [wet and dry weight basis] and log-transformed sediment Aroclors normalized to TOC), there was a negative relationship between sediment and fish tissue in all cases (Figures B-2 and B-3).

For mercury, no predictive relationships between sediment and fish tissue were found for any untransformed or log-transformed data pairs (Tables B-11 and B-12).

As with snakes, fish forage over varying areas and consume prey that is in many cases mobile. As such, associating fish tissue concentrations with specific sediment locations is uncertain. However, it is necessary to estimate tissue burdens for the food web in the OU-4 BERA. As no predictive relationships were found for PCBs or mercury, median BAFs were calculated for each fish class for each assessment area and for OU-4 (site-wide) (Tables B-6 and B-7). The AA and site-wide median BAFs for PCBs and mercury are summarized below:

| Area | PCB Median BAFs [a] | Mercury Median BAFs [a] |
|---|---|---|
| **Forage Fish** | | |
| Upper Assessment Area | 16.65 | 0.14 |
| Middle Assessment Area | 22.01 | 0.45 |
| Lower Assessment Area | 19.31 | 0.46 |
| Site-wide [b] | 18.24 | 0.31 |
| **Predator Fish** | | |
| Upper Assessment Area | 80.60 | 1.37 |
| Middle Assessment Area | 46.60 | 1.34 |
| Lower Assessment Area | 62.15 | 1.58 |
| Site-wide [b] | 62.15 | 1.38 |
| **All Fish** | | |
| Upper Assessment Area | 22.24 | 0.26 |
| Middle Assessment Area | 23.72 | 0.47 |
| Lower Assessment Area | 22.41 | 0.55 |
| Site-wide [b] | 22.41 | 0.42 |

a. Median BAFs presented on dry weight basis.
b. The site-wide BAF was not needed, as median BAFs were available for all AAs.

The piscivorous receptors evaluated in the OU-4 BERA consume a variety of fish classes, including mixtures of these fish classes (Table B-1). However, none were assumed to consume exclusively bottom fish. The bottom fish BAFs are not summarized above, but are included on Tables B-6 and B-7 for informational purposes.

# 4 PCB AND MERCURY BAFS/BIOACCUMULATION MODELS FOR TERRESTRIAL PREY

As with the aquatic tissue collection, the terrestrial prey tissue data in OU-4 were collected from three AAs within OU-4 and from three reference locations. There were nine identified BSAs within each AA for a total of 27 terrestrial BSAs. Based on the Phase 1 Ecological Survey (Arcadis BBL 2007), three major terrestrial habitat types were identified and located in OU-4: forest/wooded, maintained field, and successional field. The sampling within each BSA was designed to evaluate the biota present in these habitat types when present. The specific methods and rationale for sampling are described in more detail in the Phase 2 FSP (Arcadis 2009). In addition to the soil data collected as a part of the biota investigation, 42 historical soil samples were identified that were collected within or in close proximity to the OU-4 BSAs in 2007 or later (Table B-3). These samples were also included in the soil datasets for the BSAs. Tables B-15 and B-16 summarize the soil and biotic tissue data for PCBs and mercury, respectively, and present the median BAF calculations on a dry weight basis. A summary of the terrestrial tissue percent solids data used to convert tissue data to a dry weight basis is included in Table B-17. Figures B-1a through B-1g show the locations of each BSA as well as the locations of the sediment/soil data collected within or in close proximity to each BSA.

Two discrete soil samples were collected from each BSA and from habitat types within each reference location. Four field duplicates were collected, one in each AA and one in reference location 2. Field duplicates were averaged for the purposes of this analysis. Biota samples were collected within each BSA and reference area from areas of specified habitat type. As discussed above, the regression analyses were conducted using only detected sample results in the OU-4 and reference BSAs. PCBs were not detected in any reference soil samples. As such, reference data were not included in the PCB regression analysis, but were included in the mercury regression analysis. Regression analyses are presented in Tables B-18 and B-19 for untransformed and log-transformed PCB data, respectively. Tissue data were evaluated on a dry weight, wet weight, and lipid-normalized basis. Soil data were evaluated on a dry weight, TOC-normalized, and/or fines-normalized basis. Sediment PCBs were measured as Aroclors in most cases. In a subset of samples in six of the nine BSAs, PCBs were measured as homologs. The homolog data were also considered in the regression analysis. Datasets for the regression analyses are presented in Attachment 1. Data plots and regression equations for the predictive data pairs ($r^2$>0.3) are presented in Figures B-9 and B-10 for untransformed and log-transformed data. Statistical evaluation of the regressions was conducted for positive predictive ($r^2$ > 0.3) relationships, with p values less than 0.1 considered to be significant. Results of the statistical evaluations are presented in Attachment 1. For mercury, regression analyses are presented in Tables B-20 and B-21, data plots for predictive relationships are presented in Figure B-11 and B-12, and the statistical evaluation of the regressions is presented in Attachment 1.

The BAFs and bioaccumulation models developed for PCBs and mercury are based on samples collected from OU-4 and are therefore considered representative of bioaccumulation conditions at OU-4. The following sections describe the available data and analysis used to develop PCB and mercury terrestrial prey-tissue BAFs/bioaccumulation models.

## 4.1 Terrestrial Plants

Terrestrial plants collected included a variety of species (e.g., soy bean [*Glycine max*], yellow foxtail [*Setaria pumila*], crabgrass [Digitaria], cotton [Gossypium], pokeberry [Phytolacca], and prickly mallow [*Sida spinose*]). Stems, leaves, and seeds were collected opportunistically. PCBs were detected in only three composite samples within two BSAs, and mercury was detected in only two BSA samples. As such, data were not sufficient to conduct a regression analysis for mercury or PCBs.

For $BAF_i$ calculation, individual detected tissue samples were compared to the KM mean of all sediment samples in the BSA. The median BAFs calculated for each assessment area and OU-4 (site-wide) are presented in Table B-15 for PCBs and Table B-16 for mercury.

However, USEPA (2016) recommends that literature data be used to evaluate plant uptake of PCBs and mercury in OU-4 because the plant dataset is not sufficient for development of uptake factors. Therefore, the median AA BAFs were not selected. As recommended by USEPA, plant uptake of PCBs into terrestrial plants was estimated from data presented by Ficko et al. (2013), represented by Equation 5 (Section 2.4).

Equation 5: plant wet wt (ng/g ww) = 0.1433 (soil PCB ng/g dw) + 34.546 ($r^2$ = 0.375)

The predicted wet weight plant tissue concentration was converted to dry weight for use in the food web model by dividing by the average proportion solids (0.29 g solids/g wet weight) of OU-4 terrestrial plant data. For mercury, the soil-to-plant BAF of 0.05 from Pant et al. (2011) was used, as recommended by USEPA.

## 4.2 Earthworms

Three composite earthworm samples were collected from three BSAs representing each of the three identified habitat types within each AA and reference area. For the regression analysis, the arithmetic mean of the detected tissue composites within each BSA was taken and associated with the arithmetic mean of the detected soil concentrations for that BSA. For $BAF_i$ calculation, individual detected tissue samples were compared to the KM mean of all sediment samples in the BSA.

The regression analyses for PCBs and mercury resulted in a significant predictive relationship between soil and earthworms tissue for PCBs or mercury, whether based on dry weight or wet weight and TOC- and/or lipid-normalized data (Tables B-18 and B-19 for PCBs, and Tables B-20 and B-21 for mercury). The statistical evaluation of the regression analyses is provided in Attachment 1. For both PCBs and mercury, the regression equations were all highly significant, with similar $r^2$ and p values. Therefore, for simplicity, the dry weight tissue to dry weight soil regression equation was selected for use in estimating prey tissue concentration in the OU-4 BERA. The regression equations identified from the regression analysis used to estimate worm tissue concentrations in the OU-4 BERA are:

Equation 11 (PCBs): tissue, mg/kg dw = 4.7017 *(soil, mg/kg dw) - 0.5528 ($r^2$=0.854; P = 0.008)

Equation 12 (Mercury): tissue, mg/kg dw = 1.3029 *(soil, mg/kg dw) + 0.690 ($r^2$ = 0.892; P = 0.00004)

## 4.3 Spiders

Spider data were not collected from OU-4. However, data from Walters et al. (2010), Shang et al. (2013), and Sample et al. (1999) demonstrate that spiders, particularly aquatic-feeding spiders, can have PCB

body burdens similar to earthworms. As recommended by USEPA (2016), the site-specific earthworm bioaccumulation models (Section 4.2) were selected to estimate uptake into spiders as well. For terrestrial spiders, uptake was estimated from soil using the earthworm bioaccumulation models. For aquatic spiders, uptake was estimate from sediment using the earthworm bioaccumulation models.

## 4.4 Terrestrial Insects

Terrestrial insects collected included grasshoppers and crickets. Three composite samples were collected from two BSAs representing maintained field and successional field habitat types within each AA and reference area. PCBs were not detected in any of the samples collected, and mercury was detected in only four samples within two BSAs in the UAA (Tables B-15 and B-16). As such, data were not sufficient to conduct a regression analysis for PCBs or mercury.

For PCBs, no BAFs could be calculated. Uptake into terrestrial insects was estimated using a BAF of 0.17, derived for soil invertebrates along the Kalamazoo River (Blankenship et al. 2005).

For mercury, the site-wide median BAF of 0.02 based on data from the UAA was selected for use in estimating terrestrial insect tissue concentrations in the OU-4 BERA (Table B-16).

## 4.5 Small Mammals

An effort was made to collect small mammals in all nine terrestrial BSAs within each AA. However, samples were not found in each location. Samples were collected in between five and nine BSAs within each area. Samples included mice, voles, shrews, and rats. When sample size for a particular group was sufficient, that group was evaluated individually. All small mammals were also evaluated collectively. Small mammals were also evaluated excluding shrews, which may have higher tissue concentrations of most constituents due to their diet, and generally shrews are not preferred food items for predators when other small mammals are available (Korpimaki and Norrdahl 1989). For the regression analyses, the arithmetic mean of the detected tissue samples within each BSA was associated with the arithmetic mean of the detected soil concentrations for that BSA. Data included in the regression analyses are presented in Attachment 1. For $BAF_i$ calculation, individual detected tissue samples were compared to the KM mean of all sediment samples in the BSA.

Based on the available data, a regression analysis was conducted for both PCBs and mercury for mice, non-shrew small mammals, and for all small mammals collectively. The regression analyses for PCBs resulted in a significant predictive relationship between soil and all three small mammal groupings (Tables B-18 and B-19). The statistical evaluation of the regression analyses is provided in Attachment 1. Although the dry weight tissue to dry weight soil regression analysis for mice tissue resulted in the best fit for PCBs, the log dry weight tissue to log dry weight soil regression for all small mammals was used in the OU-4 BERA, as it would account for uptake into a larger range of small mammals as part of a receptor's diet (i.e., more realistic than based on only a diet of single type of mammal). The regression equation based on log-transformed soil (dry weight) and log-transformed dry weight small mammal tissue (Figure B-11) was selected to predict mercury in small mammal tissues:

Equation 13 (PCBs): log (tissue, mg/kg dw) = 0.5446 *log (soil, mg/kg dw) + 0.3164 ($r^2$ = 0.476; P = 0.003)

For mercury, the regression analyses (Tables B-20 and B-21) did not result in a significant predictive relationship between soil and mice, non-shrew small mammals, and all small mammal tissue. Because a significant relationship was not identified, median BAFs were calculated for each AA and OU-4 (site-wide) (Table B-16). The AA and site-wide median BAFs for mercury are summarized below:

| Area | Mercury Median BAFs [a] |
|---|---|
| Upper Assessment Area | 0.01 |
| Middle Assessment Area | 0.08 |
| Lower Assessment Area | 0.14 |
| Site-wide [b] | 0.04 |

a. Median BAFs presented on a dry weight basis.
[b] The site-wide BAF was not needed, as median BAFs were available for all AAs.

# 5 BAFS/BIOACCUMULATION MODEL DEVELOPMENT FOR NON-MERCURY METALS

This section describes the data and method for developing BAFs/bioaccumulation models for barium, chromium, cobalt, lead, and vanadium for use in the OU-4 BERA.

Non-mercury metal COPCs were measured in soil, sediment, and tissue in approximately 10% of samples collected for PCB and mercury analysis, as described in the OU4-BERA. As there were too few samples to develop a regression model, it was necessary to estimate BAFs for these metals.

Median BAFs were calculated using the approach described in Section 2.3, although a site-wide median BAF was calculated for all tissues due to the small size of the datasets. As metals were detected in all soil and sediment samples, the abiotic media concentration was the average concentration in the BSA. For simplicity, the site-wide median BAF was selected for use in calculating tissue COPC concentrations for all non-mercury metals in the food web models. The grouped aquatic tissue and sediment data and resulting site-wide median BAFs are presented in Table B-22. The grouped terrestrial tissue and soil data and resulting site-wide median BAFs are presented in Table B-23.

Because several tissues had metals concentrations below the laboratory reporting limit and because some BSAs did not have data for both abiotic and biotic samples, it was not possible to calculate median BAFs for several COPCs and tissues. Certain metals were never detected in some prey tissue types. In these cases, no mean BAF could be calculated. When metals were never detected in a prey tissue, a tissue concentration equal to half the maximum reporting limit was selected. This is the case for the following COPC-tissue pairs, with ½ maximum reporting limit shown in parentheses:

- Chromium – snakes (9.01 mg/kg dw), and terrestrial insects (7.38 mg/kg dw)
- Cobalt – aquatic plants (34.7 mg/kg), crayfish (20 mg/kg), snake (22.53 mg/kg), forage fish (19.31 mg/kg), terrestrial insects (18.45 mg/kg), and small mammals (15.63 mg/kg dw)
- Vanadium – snake (9.01 mg/kg dw), small mammals (6.25 mg/kg dw)

Additionally in certain cases, metals were detected in tissue samples, but abiotic data from the same BSA were lacking, and therefore a BAF could not be calculated. In these cases, a site-wide average ratio BAF was calculated by dividing the site-wide average detected tissue concentration by the site-wide average concentration in soil or sediment. The site-wide average ratio BAF values – presented in Tables B-22 for sediment and B-23 for soil – were selected to model uptake in the OU-4 BERA for the following COPC-tissue pairs:

- Barium – frogs, snakes, terrestrial plants, and small mammals
- Chromium – frogs, terrestrial plants, and small mammals
- Cobalt – frogs, and terrestrial plants
- Lead – frogs, snakes, terrestrial plants, and small mammals

- Vanadium – frogs, terrestrial plants

Tissue metals data were not collected for spiders or oligochaetes. Similar to the approach for PCBs and mercury, earthworm metals BAFs were selected to model uptake into spiders and benthic invertebrate (Odonata) BAFs were selected to model uptake into oligochaetes.

# 6 BIOACCUMULATION FACTORS FOR UPTAKE INTO EGGS

Because bird egg tissue was not collected at OU-4, uptake factors are needed to estimate concentrations of PCBs and mercury in bird eggs. Following available guidance (California's Office of Environmental Health Hazard Assessment [OEHHA 2015]), for the OU-4 BERA, uptake of PCBs, mercury, and PCDD/PCDFs were estimated using uptake transfer coefficients (TCos) recommended by OEHHA (2015). The TCos, expressed in day per kilogram (d/kg), represent the ratio of contaminant concentration in fresh weight animal product (in mg/kg, for example) to the daily intake of contaminant by the animal (in milligrams per day [mg/d]). The OEHHA (2015) TCos for PCBs and mercury for uptake into bird eggs are presented in Table B-24.

For PCBs, the TCo was developed based on data from a study by Pirard and De Pauw (2005) that determined bioconcentration factors for coplanar-PCBs in chicken breast muscle. OEHHA (2012) adjusted the muscle TCo to account for the higher fat content in eggs (11%) relative to breast muscle (7%). The resulting PCB TCo for uptake into egg tissue is 10 d/kg.

For mercury, the TCo was developed from a study by Kiwimae et al. (1969) where total mercury uptake measured in eggs after hens were fed inorganic mercury for 140 days. The egg TCo for mercury selected by OEHHA (2012) is 0.8 d/kg.

The bird egg tissue concentrations were estimated using the TCos and the following equation from OEHHA (2015):

Equation 14: $C_{fa}$ = Exposure dose * Tco

Where:

| | |
|---|---|
| $C_{fa}$ | average concentration in farm animals and their products; bird egg tissue concentration (mg/kg wet weight) |
| Exposure dose | dose through inhalation, water ingestion, feed ingestion, and soil ingestion; dietary dose estimated from the food web models in units of milligrams per day (mg/d) |
| Tco | chemical-specific transfer coefficient of contaminant from diet to animal product (d/kg) |

These TCos were multiplied by the daily dose (mg/d) predicted from the dietary intake pathways (including sediment and/or soil ingestion) for each bird receptor in the OU-4 dose model to predict wet weight egg concentrations. The wet weight egg concentrations were converted to a dry weight basis assuming 75% moisture content in egg tissue (Ahn et al. 1997).

# 7 SUMMARY

As described above, abiotic and biotic tissue data from OU-4 and reference area were grouped by BSAs for BAF development.

For PCBs and mercury, regression analyses were conducted on samples with detected concentrations of COPCs to determine if predictive relationships between sediment/soil and tissue could be identified. Tissue data were evaluated on a dry weight, wet weight, and lipid-normalized basis. Soil/sediment data were evaluated on a dry weight, TOC-normalized, and/or fines-normalized basis. Soil/sediment PCBs were measured as Aroclors in most cases. In a subset of samples in six of the nine BSAs, PCBs were measured as homologs. The homolog data were also considered in the regression analysis.

In some cases, positive, predictive ($r^2 > 0.3$), and statistically significant ($p < 0.1$) relationships were identified (e.g., for earthworms and small mammals). In these cases, the regression equations were used to estimate concentrations of these tissues for the dietary dose calculations in the OU-4 BERA. Although the relationship on a lipid- and OC-normalized basis was stronger for some datasets than on a dry weight/dry weight basis, the difference was minimal and dry weight calculations were selected for use in the OU-4 BERA for simplicity.

When positive, predictive, and significant regressions were not found, median BAFs were calculated. For PCBs and mercury, median BAFs based on AAs were selected to model prey uptake in the OU-4 BERA. When AA median BAFs could not be calculated, a site-wide median BAF was selected.

Additionally, some COPCs were never detected in certain tissue types. In these cases, half the reporting limit was selected as a representative tissue concentration in the food web models.

For sediment, Figure B-13 presents a summary of the selected regressions/BAFs for PCBs, and Figure B-14 presents a summary of the selected regressions/BAFs for mercury. For soil, the selected BAFs/regressions are presented on Figures B-15 and B-16 for PCBs and mercury, respectively. Table B-25 summarizes the selected BAFs/bioaccumulation models selected for PCBs and mercury in the OU-4 BERA. AA and site-wide median BAFs for PCBs and mercury are summarized on Table B-26.

For non-mercury metals, the BAF datasets were insufficient for conducting regression analysis or calculating AA BAFs. Site-wide median BAFs were selected for non-mercury metals due to the small datasets for these COPCs. In some cases, COPCs were detected in tissue but soil/sediment data from paired BSAs were unavailable. In these cases, a site-wide average ratio BAF was selected. Additionally, some COPCs were never detected in certain tissue types. In these cases, half the reporting limit was selected as a representative tissue concentration in the food web models. BAFs selected for non-mercury metals are summarized in Table B-26.

Because egg tissue was not collected, wet weight uptake factors for PCBs and mercury of 10 d/kg and 0.8 d/kg, respectively (OEHHA 2015), were selected to estimate egg concentrations for the OU-4 BERA.

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# TABLES

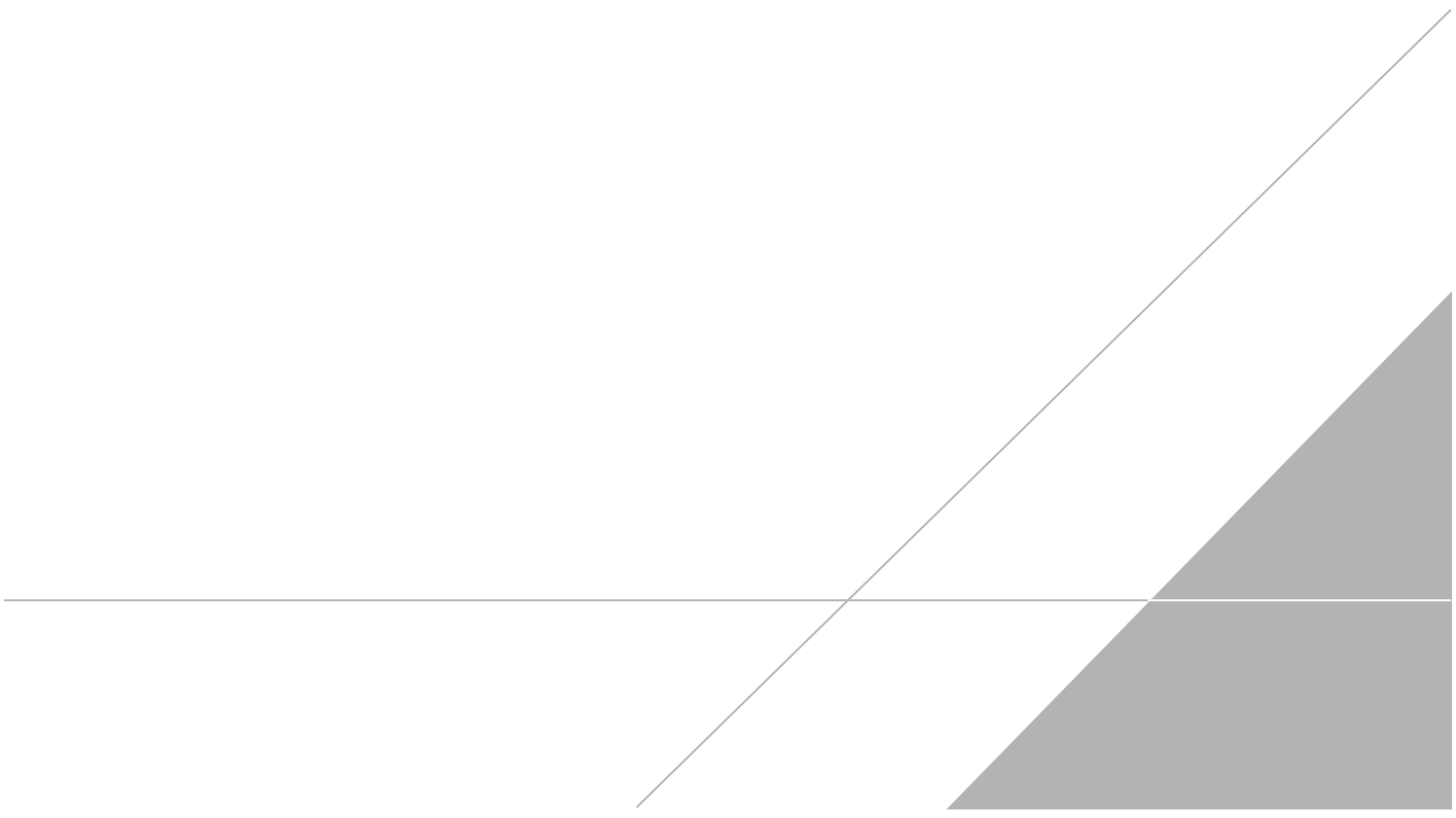

**Table B-1. OU-4 Aquatic and Terrestrial Receptors and Dietary Components**
**Anniston PCB Site, Anniston, Alabama**

| Receptor | Aquatic (Sediment) Exposure | | | | | | | | | | | | Terrestrial (Soil) Exposure | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Aquatic Plants | Aquatic Emergent & Flying Insects | Benthic Invertebrates | Oligochaetes | Crayfish | Mollusc | Fish (All Sizes) | Predator Fish | Forage Fish (4-15 cm) | Amphibians | Reptiles | Aquatic-Feeding Spiders [a] | Terrestrial-Feeding Spiders | Earthworms | Terrestrial Insects | Terrestrial Plants | Mammals/ Birds |
| ***Aquatic Receptors*** | | | | | | | | | | | | | | | | | |
| Tree Swallow | | X | | | | | | | | | | | | | | | |
| Spotted Sandpiper | | | | | | | | | | | | | | | | | |
| Scenario 2 | | | X | X | | | | | | | | | | | | | |
| Belted Kingfisher | | | | | | | | | | | | | | | | | |
| Scenario 1 | | | | | | | | | X | | | | | | | | |
| Scenario 2 | | | | | X | | | | X | X | | | | | | | |
| Great Blue Heron | | | | | X | | X | | | X | | | | | | | X |
| American Osprey | | | | | | | X | | | | | | | | | | |
| Little Brown Bat | | X | | | | | | | | | | | | | | | |
| Mink | | | | | | | | | | | | | | | | | |
| Scenario 2 | X | | | | X | | | | X | X | | | | | | | X |
| River Otter | | | | | | | X | X | X | | | | | | | | |
| ***Terrestrial Receptors*** | | | | | | | | | | | | | | | | | |
| Mourning Dove | | | | | | | | | | | | | | | | X | |
| Blue Jay | | | | | | | | | | | | | X | | X | X | |
| Carolina Wren | | | | | | | | | | | | | | | | | |
| Scenario 1 | | | | | | | | | | | | | X | X | X | X | |
| Short-Tailed Shrew | | | | | | | | | | | | | | | | | |
| Scenario 1 | | | | | | | | | | | | | X | X | X | X | |
| Scenario 2 | | | | | | | | | | X | X | | X | X | X | X | X |
| White-Tailed Deer | | | | | | | | | | | | | | | | X | |
| Weasel | | | | | | | | | | | | | | | | | X |
| Red Fox | | | | | | | | | | | | | | | | | |
| Scenario 1 | | | | | | | | | | | | | | X | | X | X |
| Scenario 2 | | | | | | | | | | | | | | | | X | X |
| ***Aquatic + Terrestrial Receptors*** | | | | | | | | | | | | | | | | | |
| Carolina Wren | | | | | | | | | | | | | | | | | |
| Scenario 2 | X | | | | | | | | | | | X | | X | X | | |
| Spotted Sandpiper | | | | | | | | | | | | | | | | | |
| Scenario 1 | | | X | | | | | | | | | | | X | | | |
| Red-Tailed Hawk | | | | | | | | | | | X | | | | | | X |
| Mink | | | | | | | | | | | | | | | | | |
| Scenario 1 | | | | | X | | | | X | X | | | | | | | X |
| Raccoon | | | | | | | | | | | | | | | | | |
| Scenario 1 | | | | | X | | X | | | X | X | | X | X | X | X | X |
| Scenario 2 | X | | | X | X | X | X | | | X | | | | | | | X |

**Notes:**
a. Riparian-feeding spiders are assumed to consume primarily aquatic emergent insects, and were modeled using sediment concentrations.
cm: centimeter
OU: operable unit
PCB: polychlorinated biphenyl

**Table B-2. Sediment Samples Included in Bioaccumulation Factor Datasets**
**Anniston PCB Site, Anniston, Alabama**

| AA | EU/ Reach | BSA | Location ID | Date | Sample Type | Sediment Class | Analyses | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | PCB Aroclors | Mercury | PCB Congeners[1] and PCB Homologs | Ba, Cr, Co, Pb, V | Dioxins/ Furans | Grain Size | TOC by Lloyd Kahn |
| Upper | C2 | EUA-01 | EUA-01-19 | 9/30/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EUA-01-20 | 9/30/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EUA-01-21 | 9/30/2009 | D | Gravel | 1 | 1 | | | | 1 | 1 |
| | | | EUA-01-22 | 9/30/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EUA-01-23 | 9/30/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EUA-01-24 | 9/30/2009 | D | Fine | 1 | 1 | 1 | | 1 | 1 | 1 |
| | C3 | EUA-02 | EUA-02-43 | 10/1/2009 | D | Fine | 2 | 2 | 2 | | 2 | 2 | 2 |
| | | | EUA-02-44 | 10/1/2009 | D | Fine | 1 | 1 | | 1 | | 1 | 1 |
| | | | EUA-02-45 | 10/1/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | EUA-02-46 | 10/1/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | EUA-02-47 | 10/1/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | EUA-02-48 | 10/1/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | C4 | EUA-03 | EUA-03-25 | 9/30/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EUA-03-26 | 9/30/2009 | D | Gravel | 1 | 1 | | | | 1 | 1 |
| | | | EUA-03-27 | 9/30/2009 | D | Gravel | 1 | 1 | | | | 1 | 1 |
| | | | EUA-03-28 | 9/30/2009 | D | Gravel | 1 | 1 | | | | 1 | 1 |
| | | | EUA-03-29 | 9/30/2009 | D | Fine | 1 | 1 | | 1 | | 1 | 1 |
| | | | EUA-03-30 | 9/30/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| Middle | C5 | EMA-01 | EMA-01-01 | 9/29/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EMA-01-02 | 9/29/2009 | D | Coarse | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | EMA-01-03 | 9/29/2009 | D | Coarse | 2 | 2 | | | | 2 | 2 |
| | | | EMA-01-04 | 9/29/2009 | D | Coarse | 1 | 1 | | 1 | | 1 | 1 |
| | | | EMA-01-05 | 9/29/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | EMA-01-06 | 9/29/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | HHFL-05 | 4/4/2009 | C | Coarse | 2 | 2 | | 2 | | 2 | 2 |
| | | EMA-02 | EMA-02-07 | 9/29/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | EMA-02-08 | 9/29/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EMA-02-09 | 9/29/2009 | D | Coarse | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | EMA-02-10 | 9/29/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | EMA-02-11 | 9/29/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | EMA-02-12 | 9/29/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | EMA-03 | EMA-03-31 | 9/30/2009 | D | Coarse | 1 | 1 | | 1 | | 1 | 1 |
| | | | EMA-03-32 | 9/30/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EMA-03-33 | 9/30/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EMA-03-34 | 9/30/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EMA-03-35 | 9/30/2009 | D | Fine | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | EMA-03-36 | 9/30/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| Lower | C7 | ELA-01 | ELA-01-55 | 10/2/2009 | D | Coarse | 2 | 2 | | 2 | | 2 | 2 |
| | | | ELA-01-56 | 10/2/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ELA-01-57 | 10/2/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ELA-01-58 | 10/2/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ELA-01-59 | 10/2/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ELA-01-60 | 10/2/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | HHFL-04 | 5/4/2009 | C | Coarse | 1 | 1 | | 1 | | 1 | 1 |
| | | ELA-02 | ELA-02-61 | 10/2/2009 | D | Fine | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | ELA-02-62 | 10/2/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ELA-02-63 | 10/2/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ELA-02-64 | 10/2/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ELA-02-65 | 10/2/2009 | D | Coarse | 1 | 1 | | 1 | | 1 | 1 |
| | | | ELA-02-66 | 10/2/2009 | D | Fine | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | ELA-03 | ELA-03-67 | 10/2/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ELA-03-68 | 10/2/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ELA-03-69 | 10/2/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ELA-03-70 | 10/2/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ELA-03-71 | 10/2/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ELA-03-72 | 10/2/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |

**Table B-2. Sediment Samples Included in Bioaccumulation Factor Datasets**
**Anniston PCB Site, Anniston, Alabama**

| AA | EU/ Reach | BSA | Location ID | Date | Sample Type | Sediment Class | Analyses | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | PCB Aroclors | Mercury | PCB Congeners[1] and PCB Homologs | Ba, Cr, Co, Pb, V | Dioxins/ Furans | Grain Size | TOC by Lloyd Kahn |
| Reference | REF | ERA-01 | ECO-REF-01 | 4/6/2009 | D | Fine | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | ERA-01-49 | 10/1/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ERA-01-50 | 10/1/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ERA-01-51 | 10/1/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ERA-01-52 | 10/1/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ERA-01-53 | 10/1/2009 | D | Coarse | 2 | 2 | | | | 2 | 2 |
| | | | ERA-01-54 | 10/1/2009 | D | Fine | 1 | 1 | | 1 | | 1 | 1 |
| | | ERA-02 | ECO-REF-02 | 4/6/2009 | D | Fine | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | ERA-02-13 | 9/29/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ERA-02-14 | 9/29/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ERA-02-15 | 9/29/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ERA-02-16 | 9/29/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ERA-02-17 | 9/29/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ERA-02-18 | 9/29/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | ERA-03 | ECO-REF-03 | 4/6/2009 | D | Coarse | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | ERA-03-37 | 10/1/2009 | D | Gravel | 1 | 1 | | | | 1 | 1 |
| | | | ERA-03-38 | 10/1/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ERA-03-39 | 10/1/2009 | D | Coarse | 1 | 1 | | 1 | | 1 | 1 |
| | | | ERA-03-40 | 10/1/2009 | D | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ERA-03-41 | 10/1/2009 | D | Gravel | 1 | 1 | | | | 1 | 1 |
| | | | ERA-03-42 | 10/1/2009 | D | Fine | 1 | 1 | | | | 1 | 1 |

**Notes:**

[1] Congeners analyzed: BZ77, BZ81, BZ105, BZ114, BZ118, BZ123, BZ26, BZ153, BZ156, BZ157, BZ167, BZ169, BZ189

AA: assessment area
Ba: barium
BSA: biological sampling area
C: composite
Co: copper
Cr: chromium
D: discrete
EU: exposure unit
Pb: lead
PCB: polychlorinated biphenyl
TOC: total organic carbon
V: vanadium

**Table B-3. Soil Samples Included in Bioaccumulation Factor Datasets**
**Anniston PCB Site, Anniston, Alabama**

| AA | EU | BSA | Location ID | Date | Analyses | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | PCB Aroclors | Mercury | PCB Congeners[1] and PCB Homologs | Cr, Pb, V | Dioxins/ Furans | Grain Size | TOC by Lloyd Kahn |
| Upper | C2B | EUT-01 | C2N-18 | 2/19/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-01-09 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-01-10 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | EUT-02 | C2N-22 | 2/19/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C2N-26 | 2/19/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-02-11 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-02-12 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | EUT-03 | C2N-21 | 2/19/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | | | EUT-03-13 | 9/16/2009 | 2 | 2 | | | | 2 | 2 |
| | | | EUT-03-14 | 9/16/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | C3N | EUT-04 | C3N-03 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-04-07 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-04-08 | 9/16/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | EUT-05 | C3N-08 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C3N-09 | 3/31/2009 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | C3N-10 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C3NF-05 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C3NF-07 | 3/31/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | C3NF-08 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C3NF-10 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C3NF-11 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-05-05 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-05-06 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | EUT-06 | C3N-14 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-06-03 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-06-04 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | EUT-07 | C3NF-17 | 4/1/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-07-01 | 9/16/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | EUT-07-02 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | C4S | EUT-08 | C3S-27 | 3/25/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-08-49 | 9/18/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | | | EUT-08-50 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | EUT-09 | C4S-04 | 3/16/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | | | EUT-09-51 | 9/18/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | EUT-09-51b | 9/18/2009 | 1 | 1 | | | | 1 | 1 |

**Table B-3. Soil Samples Included in Bioaccumulation Factor Datasets**
**Anniston PCB Site, Anniston, Alabama**

| AA | EU | BSA | Location ID | Date | Analyses | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | PCB Aroclors | Mercury | PCB Congeners[1] and PCB Homologs | Cr, Pb, V | Dioxins/ Furans | Grain Size | TOC by Lloyd Kahn |
| Middle | C5N | EMT-01 | C5N-19 | 3/5/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-01-25 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-01-26 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | EMT-02 | C5N-24 | 2/24/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-02-17 | 9/16/2009 | 2 | 2 | | | | 2 | 2 |
| | | | EMT-02-18 | 9/16/2009 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | EMT-03 | C5N-26 | 2/24/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C5N-27 | 2/24/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-03-15 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-03-16 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | EMT-04 | C5N-29 | 2/24/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C5NF-10 | 2/24/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-04-19 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-04-20 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | EMT-05 | C5N-30 | 2/24/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-05-21 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-05-22 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | EMT-06 | C5N-31 | 2/24/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-06-23 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-06-24 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | C5S | EMT-07 | C5S-34 | 2/22/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C5S-36 | 2/22/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | C5S-37 | 2/22/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | | | EMT-07-27 | 9/17/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | | | EMT-07-28 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | EMT-08 | C5S-40 | 2/22/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-08-29 | 9/17/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | EMT-08-30 | 9/17/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | EMT-09 | C5S-44 | 2/23/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C5S-45 | 2/22/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-09-31 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-09-32 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| Lower | C7N | ELT-08 | C7N-28 | 6/20/2007 | 1 | | | | | 1 | 1 |
| | | | ELT-08-33 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ELT-08-34 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | ELT-09 | C7N-33 | 6/20/2007 | 1 | | | | | 1 | 1 |
| | | | C7N-34 | 6/20/2007 | 1 | | | | | 1 | 1 |
| | | | ELT-09-35 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ELT-09-36 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | C7S | ELT-01 | C7S-01 | 6/28/2007 | 1 | | | | | 1 | 1 |
| | | | ELT-01-39 | 9/17/2009 | 2 | 2 | | 2 | | 2 | 2 |
| | | | ELT-01-40 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | ELT-02 | ELT-02-38 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C7S-03 | 6/28/2007 | 2 | | | | | 2 | 2 |
| | | | ELT-02-37 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | ELT-03 | C7S-11 | 6/27/2007 | 1 | | | | | 1 | 1 |
| | | | ELT-03-41 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ELT-03-42 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | ELT-04 | C7S-12 | 6/27/2007 | 1 | | | | | 1 | 1 |
| | | | ELT-04-43 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ELT-04-44 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | ELT-05 | C7S-14 | 6/27/2007 | 1 | | | | | 1 | 1 |
| | | | ELT-05-45 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ELT-05-46 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | ELT-06 | ELT-06-47 | 9/18/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | | | ELT-06-48 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | ELT-07 | C7S-22 | 6/27/2007 | 1 | | | | | 1 | 1 |
| | | | ELT-07-54 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ELT-07-55 | 9/18/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |

**Table B-3. Soil Samples Included in Bioaccumulation Factor Datasets**
**Anniston PCB Site, Anniston, Alabama**

| AA | EU | BSA | Location ID | Date | Analyses | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | PCB Aroclors | Mercury | PCB Congeners[1] and PCB Homologs | Cr, Pb, V | Dioxins/ Furans | Grain Size | TOC by Lloyd Kahn |
| Reference | REF | ERT-01-MF | ERT-01-62 | 9/23/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-01-63 | 9/23/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-01-52 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-01-53 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | ERT-02-FF | ERT-02-60 | 9/22/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-02-56 | 9/22/2009 | 2 | 2 | | | | 2 | 2 |
| | | | ERT-02-57 | 9/22/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | | ERT-02-SF | ERT-02-58 | 9/22/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-02-59 | 9/22/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-02-61 | 9/22/2009 | 1 | 1 | | | | 1 | 1 |
| | | ERT-03-FF | ERT-03-64 | 9/28/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-03-65 | 9/28/2009 | 1 | 1 | | | | 1 | 1 |
| | | ERT-03-SF | ERT-03-66 | 9/28/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-03-67 | 9/28/2009 | 1 | 1 | | | | 1 | 1 |

**Notes:**

[1] Congeners analyzed: BZ77, BZ81, BZ105, BZ114, BZ118, BZ123, BZ26, BZ153, BZ156, BZ157, BZ167, BZ169, BZ189

AA: assessment area
Ba: barium
BSA: biological sampling area
Cr: chromium
EU: exposure unit
PCB: polychlorinated biphenyl
Pb: lead
TOC: total organic carbon
V: vanadium

**Table B-4. Sediment and Aquatic Biota (non-fish) PCB Data and Median BAF Calculations (mg/kg dw)[1,2,3]**
**Anniston PCB Site, Anniston, Alabama**

| AA | BSA | Sampling Location | Sediment | Aquatic Plants | Aquatic Plants BAF | Emergent Insects | Emergent Insects BAF | Benthic Invertebrates | Benthic Invertebrates BAFs | Crayfish | Crayfish BAFs | Mollusc | Mollusc BAFs | Frog | Frog BAFs | Snake | Snake BAFs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Upper | EUA-01 | EUA-01-19 | 1.10 | 0.87 | **0.51** | 2.7 | **1.59** | 3.5 | **2.08** | 1.8 | **1.08** | 11 | **6.30** | 15 | **8.64** | 26 | **15.34** |
| | | EUA-01-20 | 3.08 | 0.41 | **0.25** | 0.36 | **0.22** | 0.96 | **0.57** | 3.2 | **1.92** | 6.3 | **3.73** | 18 | **10.89** | na | **NA** |
| | | EUA-01-21 | 0.81 | 0.88 | **0.52** | 0.31 | **0.18** | 0.98 | **0.58** | 1.6 | **0.93** | 5.9 | **3.50** | na | **NA** | na | **NA** |
| | | EUA-01-22 | 1.96 | | | | | | | | | | | | | | |
| | | EUA-01-23 | 0.35 | | | | | | | | | | | | | | |
| | | EUA-01-24 | 2.83 | | | | | | | | | | | | | | |
| | | **EUA-01 Median*** | **1.69** | | **0.513** | | **0.216** | | **0.580** | | **1.085** | | **3.727** | | **9.763** | | **15.3** |
| | | **Reach C2 (Median)** | | | **0.513** | | **0.216** | | **0.580** | | **1.085** | | **3.727** | | **9.763** | | **15.3** |
| | EUA-02 | EUA-02-43 | 1377.48 | 0.65 | **0.59** | 27 | **24.7** | 0.86 | **0.78** | 3.8 | **3.45** | 14 | **12.5** | 9.5 | **8.67** | 167 | **151** |
| | | EUA-02-44 | 0.40 | 0.67 | **0.60** | 23 | **21.3** | 2.9 | **2.66** | 3.3 | **3.02** | 17 | **15.3** | 2.5 | **2.30** | na | **NA** |
| | | EUA-02-45 | 1.51 | 0.80 | **0.73** | 18 | **16.2** | 1.3 | **1.14** | 2.2 | **2.00** | 12 | **10.5** | na | **NA** | na | **NA** |
| | | EUA-02-46 | 0.26 | | | | | | | | | | | | | | |
| | | EUA-02-47 | 1.63 | | | | | | | | | | | | | | |
| | | EUA-02-48 | 0.87 | | | | | | | | | | | | | | |
| | | **EUA-02 Median*** | **1.10** | | **0.604** | | **21.3** | | **1.135** | | **3.017** | | **12.5** | | **5.482** | | **151** |
| | | **Reach C3 (Median)** | | | **0.604** | | **21.3** | | **1.135** | | **3.017** | | **12.5** | | **5.482** | | **151** |
| | EUA-03 | EUA-03-25 | 1.24 | 0.76 | **0.75** | 25 | **24.7** | 1.1 | **1.08** | 1.3 | **1.27** | 17 | **16.6** | 17 | **16.67** | na | **NA** |
| | | EUA-03-26 | 1.45 | 1.2 | **1.16** | 23 | **22.9** | 2.3 | **2.29** | na | **NA** | 15 | **14.5** | 38 | **37.89** | na | **NA** |
| | | EUA-03-27 | 0.28 | 1.2 | **1.18** | 20 | **20.2** | 1.3 | **1.33** | na | **NA** | 8.8 | **8.67** | 5.6 | **5.53** | na | **NA** |
| | | EUA-03-28 | 0.36 | | | | | | | | | | | | | | |
| | | EUA-03-29 | 2.35 | | | | | | | | | | | | | | |
| | | EUA-03-30 | 0.42 | | | | | | | | | | | | | | |
| | | **EUA-03 Median*** | **1.02** | | **1.163** | | **22.9** | | **1.328** | | **1.269** | | **14.5** | | **16.67** | | **NA** |
| | | **Reach C4 (Median)** | | | **1.163** | | **22.9** | | **1.328** | | **1.269** | | **14.5** | | **16.67** | | **NA** |
| | | **Upper (Median)** | | | **0.604** | | **20.2** | | **1.135** | | **1.917** | | **10.5** | | **8.666** | | **83.3** |
| | | **95% Confidence Limits 4** | | | (0.513 - 0.727) | | (0.216 - 21.2) | | (0.580 - 1.33) | | NA | | (3.73 - 12.5) | | NA | | NA |
| Middle | EMA-01 | EMA-01-01 | 1.22 | 0.082 | **nd** | 0.31 | **0.30** | 1.6 | **1.52** | 2.6 | **2.54** | 4.9 | **4.73** | 2.4 | **2.35** | 122 | **118.62** |
| | | EMA-01-02 | 0.70 | 1.1 | **1.03** | 0.55 | **0.53** | 1.3 | **1.31** | 2.6 | **2.51** | 4.6 | **4.46** | 4.6 | **4.44** | na | **NA** |
| | | EMA-01-03 | 950.00 | 0.39 | **0.38** | 0.69 | **0.67** | 1.2 | **1.14** | na | **NA** | 6.3 | **6.06** | na | **NA** | na | **NA** |
| | | EMA-01-04 | 0.36 | | | | | | | | | | | | | | |
| | | EMA-01-05 | 1.30 | | | | | | | | | | | | | | |
| | | EMA-01-06 | 2.27 | | | | | | | | | | | | | | |
| | | HHFL-05 | 0.23 | | | | | | | | | | | | | | |
| | | **EMA-01 Median*** | **1.03** | | **0.704** | | **0.534** | | **1.306** | | **2.529** | | **4.731** | | **3.398** | | **118.6** |
| | EMA-02 | EMA-02-07 | 2.37 | 1.7 | **0.61** | 0.68 | **0.25** | 2.0 | **0.70** | 2.1 | **0.74** | 7.3 | **2.63** | 3.4 | **1.24** | 19 | **6.81** |
| | | EMA-02-08 | 1.31 | 1.2 | **0.44** | 0.73 | **0.26** | 1.9 | **0.70** | na | **NA** | 6.4 | **2.31** | 2.9 | **1.05** | na | **NA** |
| | | EMA-02-09 | 5.15 | 0.108 | **nd** | 0.58 | **0.21** | 1.9 | **0.70** | 0.89 | **0.32** | 6.2 | **2.24** | na | **NA** | na | **NA** |
| | | EMA-02-10 | 2.27 | | | | | | | | | | | | | | |
| | | EMA-02-11 | 1.95 | | | | | | | | | | | | | | |
| | | EMA-02-12 | 3.64 | | | | | | | | | | | | | | |
| | | **EMA-02 Median*** | **2.78** | | **0.523** | | **0.246** | | **0.700** | | **0.530** | | **2.315** | | **1.142** | | **6.808** |
| | EMA-03 | EMA-03-31 | 0.23 | 0.117 | **nd** | 0.81 | **0.71** | 1.4 | **1.25** | 1.8 | **1.62** | 12 | **10.55** | 4.5 | **3.97** | na | **NA** |
| | | EMA-03-32 | 0.041 | 0.44 | **0.39** | 0.80 | **0.71** | 2.0 | **1.76** | 1.5 | **1.37** | 10 | **9.29** | 3.1 | **2.74** | na | **NA** |
| | | EMA-03-33 | 0.38 | 0.39 | **0.35** | 1.0 | **0.90** | 1.2 | **1.07** | 1.1 | **1.00** | 12 | **10.27** | 2.8 | **2.49** | na | **NA** |
| | | EMA-03-34 | 0.69 | | | | | | | | | | | | | | |
| | | EMA-03-35 | 3.90 | | | | | | | | | | | | | | |
| | | EMA-03-36 | 1.51 | | | | | | | | | | | | | | |
| | | **EMA-03 Median*** | **1.13** | | **0.373** | | **0.715** | | **1.252** | | **1.372** | | **10.274** | | **2.742** | | **NA** |
| | | **Reach C5 (Median)** | | | **0.417** | | **0.534** | | **1.143** | | **1.372** | | **4.731** | | **2.494** | | **62.7** |
| | | **Middle (Median)** | | | **0.417** | | **0.534** | | **1.143** | | **1.372** | | **4.731** | | **2.494** | | **62.7** |
| | | **95% Confidence Limits 4** | | | NA | | (0.246 - 0.670) | | (0.700 - 1.25) | | NA | | (2.31 - 6.06) | | NA | | NA |

**Table B-4. Sediment and Aquatic Biota (non-fish) PCB Data and Median BAF Calculations (mg/kg dw)[1,2,3]**
**Anniston PCB Site, Anniston, Alabama**

| AA | BSA | Sampling Location | Sediment | Aquatic Plants | Aquatic Plants BAF | Emergent Insects | Emergent Insects BAF | Benthic Invertebrates | Benthic Invertebrates BAFs | Crayfish | Crayfish BAFs | Mollusc | Mollusc BAFs | Frog | Frog BAFs | Snake | Snake BAFs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lower | ELA-01 | ELA-01-55 | 328.89 | 0.63 | **0.45** | 0.67 | **0.47** | 1.6 | **1.11** | 1.3 | **0.90** | 10 | **7.24** | na | **na** | 45 | **31.7** |
| | | ELA-01-56 | 0.26 | 0.37 | **0.26** | 0.96 | **0.68** | 0.90 | **0.64** | 0.83 | **0.58** | 11 | **7.98** | na | **na** | 35 | **24.5** |
| | | ELA-01-57 | 1.97 | 0.58 | **0.41** | 1.2 | **0.83** | 0.91 | **0.64** | 1.1 | **0.76** | 6.1 | **4.29** | na | **na** | 35 | **24.5** |
| | | ELA-01-58 | 2.65 | | | | | | | | | | | | | | |
| | | ELA-01-59 | 0.82 | | | | | | | | | | | | | | |
| | | ELA-01-60 | 2.37 | | | | | | | | | | | | | | |
| | | HHFL-04 | 1.31 | | | | | | | | | | | | | | |
| | | **ELA-01 Median*** | **1.42** | | **0.412** | | **0.681** | | **0.645** | | **0.761** | | **7.242** | | **NA** | | **24.5** |
| | ELA-02 | ELA-02-61 | 3.90 | 0.25 | **0.10** | 0.74 | **0.30** | 0.80 | **0.32** | 0.24 | **0.10** | 12 | **4.76** | 5.4 | **2.21** | 26 | **10.63** |
| | | ELA-02-62 | 2.37 | 0.073 | **nd** | 0.83 | **0.34** | 0.81 | **0.33** | 0.51 | **0.21** | 8.4 | **3.42** | 5.3 | **2.15** | na | **NA** |
| | | ELA-02-63 | 2.99 | 0.084 | **nd** | 1.4 | **0.56** | 1.0 | **0.41** | 1.3 | **0.52** | 14 | **5.61** | na | **NA** | na | **NA** |
| | | ELA-02-64 | 3.17 | | | | | | | | | | | | | | |
| | | ELA-02-65 | 1.19 | | | | | | | | | | | | | | |
| | | ELA-02-66 | 1.10 | | | | | | | | | | | | | | |
| | | **ELA-02 Median*** | **2.453** | | **0.104** | | **0.340** | | **0.330** | | **0.206** | | **4.755** | | **2.184** | | **10.6** |
| | ELA-03 | ELA-03-67 | 4.20 | 0.33 | **0.26** | 0.71 | **0.55** | 0.74 | **0.58** | 0.68 | **0.53** | 11 | **8.31** | na | **NA** | 30 | **23.5** |
| | | ELA-03-68 | 0.98 | 0.24 | **0.19** | 0.95 | **0.74** | 0.94 | **0.73** | 0.76 | **0.59** | 11 | **8.56** | na | **NA** | 48 | **37.6** |
| | | ELA-03-69 | 2.04 | 0.085 | **nd** | 1.2 | **0.92** | 0.61 | **0.48** | 0.87 | **0.67** | 12 | **9.38** | na | **NA** | 55 | **42.9** |
| | | ELA-03-70 | 0.04 | | | | | | | | | | | | | | |
| | | ELA-03-71 | 0.10 | | | | | | | | | | | | | | |
| | | ELA-03-72 | 0.36 | | | | | | | | | | | | | | |
| | | **ELA-03 Median*** | **1.287** | | **0.223** | | **0.740** | | **0.576** | | **0.590** | | **8.558** | | **NA** | | **37.6** |
| | | **Reach C7 (Median)** | | | **0.258** | | **0.563** | | **0.576** | | **0.584** | | **7.242** | | **2.184** | | **24.5** |
| | | **Lower (Median)** | | | **0.258** | | **0.563** | | **0.576** | | **0.584** | | **7.242** | | **2.184** | | **24.5** |
| | | **95% Confidence Limits [4]** | | | NA | | (0.340 - 0.681) | | (0.330 - 0.639) | | (0.206 - 0.590) | | (4.29 - 7.98) | | NA | | NA |
| | | **Sitewide (Median)** | | | **0.446** | | **0.681** | | **0.784** | | **0.929** | | **7.242** | | **3.356** | | **24.5** |
| | | **95% Confidence Limits 4** | | | (0.350 - 0.588) | | (0.473 - 0.740) | | (0.645 - 1.11) | | (0.590 - 1.27) | | (4.73 - 8.56) | | (2.21 - 5.53) | | (10.6 - 37.6) |
| Reference | ERA-01 | ERA-01-49 | 0.041 | 0.084 | **nd** | 0.31 | **nd** | 0.30 | **nd** | na | **NA** | 0.56 | **nd** | na | **NA** | 1.3 | **NA** |
| | | ERA-01-50 | 0.053 | 0.080 | **nd** | 0.31 | **nd** | 0.24 | **nd** | na | **NA** | 0.54 | **nd** | na | **NA** | 1.2 | **NA** |
| | | ERA-01-51 | 0.038 | 0.079 | **nd** | 0.35 | **nd** | 0.29 | **nd** | na | **NA** | 0.23 | **nd** | na | **NA** | 0.21 | **NA** |
| | | ERA-01-52 | 0.040 | | | | | | | | | | | | | | |
| | | ERA-01-53 | 13.415 | | | | | | | | | | | | | | |
| | | ERA-01-54 | 0.074 | | | | | | | | | | | | | | |
| | ERA-02 | ERA-02-13 | 0.034 | 5.1 | **NA** | 0.179 | **nd** | 0.138 | **nd** | 0.128 | **nd** | 0.27 | **nd** | 0.127 | **NA** | 0.074 | **NA** |
| | | ERA-02-14 | 0.072 | 0.073 | **nd** | 0.18 | **nd** | 0.26 | **nd** | 0.102 | **nd** | 0.29 | **nd** | 0.28 | **NA** | na | **NA** |
| | | ERA-02-15 | 0.080 | 0.101 | **nd** | 0.15 | **nd** | 0.30 | **nd** | 0.127 | **nd** | 0.22 | **nd** | na | **NA** | na | **NA** |
| | | ERA-02-16 | 0.047 | | | | | | | | | | | | | | |
| | | ERA-02-17 | 0.041 | | | | | | | | | | | | | | |
| | | ERA-02-18 | 0.044 | | | | | | | | | | | | | | |
| | ERA-03 | ERA-03-37 | 0.110 | 0.084 | **nd** | 0.48 | **nd** | 0.33 | **nd** | na | **NA** | 0.31 | **nd** | 0.12 | **nd** | 0.028 | **nd** |
| | | ERA-03-38 | 0.059 | 0.078 | **nd** | 0.33 | **nd** | 0.35 | **nd** | na | **NA** | 0.27 | **nd** | na | **NA** | 4.5 | **NA** |
| | | ERA-03-39 | 0.071 | 0.078 | **nd** | 0.33 | **nd** | 0.34 | **nd** | na | **NA** | 0.26 | **nd** | 0.09 | **NA** | na | **NA** |
| | | ERA-03-40 | 0.040 | | | | | | | | | | | | | | |
| | | ERA-03-41 | 0.041 | | | | | | | | | | | | | | |
| | | ERA-03-42 | 0.094 | | | | | | | | | | | | | | |

**Table B-4. Sediment and Aquatic Biota (non-fish) PCB Data and Median BAF Calculations (mg/kg dw)[1,2,3]**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**

Indicates a reach-specific median BAF
Indicates an assessment area median BAF
Indicates a sitewide median BAF

Red text indicates value is shown at the reporting limit

[1] Total PCB calculated a nondetect = 0 if one or more Aroclor/homolog detected in a sample; if all Aroclors/homologs are nondetect in a sample, then the highest reporting limit for individual Aroclor/homolog shown in red.

[2] Sediment, crayfish tissue, and mollusc tissue concentrations were measured as Aroclors while all other tissue concentrations were measured as homologs.

[3] Sediment concentration for the BSA is the Kaplan-Meier mean and includes non-detected concentrations.

[4] Non-parametric confidence limits calculated using methods from Conover (1980). Minimum of nine samples required for calculation. See text for details.

AA: assessment area
BAF: bioaccumulation factor
BSA: biological sampling area
dw: dry weight
mg/kg: milligrams per kilogram
NA: Average BAF not available because samples not collected or PCBs not detected within BSA.
na: no sample aquired in specified area.
nd: ratio not calculated because PCBs not detected in sediment or tissue
PCB: polychlorinated biphenyl
* Median BAF for each BSA is based on the tissue concentration for a sampling location divided by the Kaplan-Meier mean for sediment in the BSA.

**Table B-5. Sediment and Aquatic Biota (non-fish) Mercury Data and Median BAF Calculations (mg/kg dw)[1]**
**Anniston PCB Site, Anniston, Alabama**

| AA | BSA | Sampling Location | Sediment | Aquatic Plants | Aquatic Plants BAFs | Emergent Insects | Emergent Insects BAFs | Benthic Invertebrates | Benthic Invertebrates BAFs | Crayfish | Crayfish BAFs | Molluscs | Molluscs BAFs | Frog | Frog BAFs | Snake | Snake BAFs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Upper | EUA-01 | EUA-01-19 | 2.60 | 0.049 | **nd** | 0.13 | **0.075** | 0.13 | **0.078** | 0.12 | **0.069** | 0.14 | **0.084** | 0.63 | **0.376** | 0.88 | **0.523** |
| | | EUA-01-20 | 0.83 | 0.040 | **nd** | 0.10 | **0.063** | 0.19 | **0.116** | 0.13 | **0.076** | 0.14 | **0.083** | 1.0 | **0.608** | na | **na** |
| | | EUA-01-21 | 2.90 | 0.046 | **0.027** | 0.11 | **0.066** | 0.16 | **0.096** | 0.12 | **0.071** | 0.16 | **0.094** | na | **na** | na | **na** |
| | | EUA-01-22 | 0.30 | | | | | | | | | | | | | | |
| | | EUA-01-23 | 0.78 | | | | | | | | | | | | | | |
| | | EUA-01-24 | 0.75 | | | | | | | | | | | | | | |
| | | **EUA-01 Median*** | **1.674** | | **0.027** | | **0.066** | | **0.096** | | **0.071** | | **0.084** | | **0.492** | | **0.523** |
| | | **Reach C2 (Median)** | | | **0.027** | | **0.066** | | **0.096** | | **0.071** | | **0.084** | | **0.492** | | **0.523** |
| | EUA-02 | EUA-02-43 | 0.47 | 0.075 | **0.097** | 0.27 | **0.355** | 0.13 | **0.166** | 0.80 | **nd** | 0.26 | **0.330** | 0.12 | **0.158** | 0.61 | **0.787** |
| | | EUA-02-44 | 0.04 | 0.085 | **0.110** | 0.23 | **0.299** | 0.31 | **0.402** | 0.12 | **0.161** | 0.30 | **0.393** | 0.13 | **0.173** | na | **na** |
| | | EUA-02-45 | 0.32 | 0.065 | **0.084** | 0.30 | **0.394** | 0.19 | **0.244** | 0.14 | **0.181** | 0.25 | **0.323** | na | **na** | na | **na** |
| | | EUA-02-46 | 0.05 | | | | | | | | | | | | | | |
| | | EUA-02-47 | 1.00 | | | | | | | | | | | | | | |
| | | EUA-02-48 | 1.30 | | | | | | | | | | | | | | |
| | | **EUA-02 Median*** | **0.773** | | **0.097** | | **0.355** | | **0.244** | | **0.171** | | **0.330** | | **0.166** | | **0.787** |
| | | **Reach C3 (Median)** | | | **0.097** | | **0.355** | | **0.244** | | **0.171** | | **0.330** | | **0.166** | | **0.787** |
| | EUA-03 | EUA-03-25 | 1.30 | 0.088 | **0.090** | 0.42 | **0.425** | 0.18 | **0.182** | 0.19 | **0.193** | 0.32 | **0.322** | 0.73 | **0.743** | na | **na** |
| | | EUA-03-26 | 0.91 | 0.080 | **0.081** | 0.36 | **0.368** | 0.28 | **0.288** | na | **na** | 0.38 | **0.384** | 1.0 | **1.051** | na | **na** |
| | | EUA-03-27 | 0.27 | 0.11 | **0.115** | 0.32 | **0.330** | 0.15 | **0.151** | na | **na** | 0.22 | **0.227** | 0.86 | **0.872** | na | **na** |
| | | EUA-03-28 | 0.35 | | | | | | | | | | | | | | |
| | | EUA-03-29 | 0.86 | | | | | | | | | | | | | | |
| | | EUA-03-30 | 1.00 | | | | | | | | | | | | | | |
| | | **EUA-03 Median*** | **0.981** | | **0.090** | | **0.368** | | **0.182** | | **0.193** | | **0.322** | | **0.872** | | **NA** |
| | | **Reach C4 (Median)** | | | **0.090** | | **0.368** | | **0.182** | | **0.193** | | **0.322** | | **0.872** | | **NA** |
| | | **Upper (Median)** | | | **0.090** | | **0.330** | | **0.166** | | **0.119** | | **0.322** | | **0.608** | | **0.655** |
| | | **95% Confidence Limits 2** | | | NA | | (0.065 - 0.355) | | (0.096 - 0.182) | | NA | | (0.084 - 0.323) | | NA | | NA |
| Middle | EMA-01 | EMA-01-01 | 0.43 | 0.063 | **0.069** | 0.15 | **0.161** | 0.22 | **0.244** | 0.19 | **0.212** | 0.17 | **0.192** | 0.67 | **0.744** | 0.54 | **0.598** |
| | | EMA-01-02 | 0.61 | 0.049 | **nd** | 0.19 | **0.212** | 0.24 | **0.269** | 0.17 | **0.193** | 0.37 | **0.407** | 0.33 | **0.362** | na | **na** |
| | | EMA-01-03 | 0.73 | 0.081 | **0.090** | 0.32 | **0.353** | 0.32 | **0.356** | na | **na** | 0.14 | **0.151** | na | **na** | na | **na** |
| | | EMA-01-04 | 0.74 | | | | | | | | | | | | | | |
| | | EMA-01-05 | 0.50 | | | | | | | | | | | | | | |
| | | EMA-01-06 | 0.91 | | | | | | | | | | | | | | |
| | | HHFL-05 | 0.74 | | | | | | | | | | | | | | |
| | | **EMA-01 Median*** | **0.903** | | **0.080** | | **0.212** | | **0.269** | | **0.202** | | **0.192** | | **0.553** | | **0.598** |
| | EMA-02 | EMA-02-07 | 0.65 | 0.069 | **0.055** | 0.077 | **0.061** | 0.44 | **0.351** | 0.21 | **0.163** | 0.27 | **0.210** | 0.33 | **0.259** | 1.7 | **1.346** |
| | | EMA-02-08 | 0.84 | 0.081 | **0.064** | 0.034 | **0.027** | 0.26 | **0.203** | na | **na** | 0.28 | **0.221** | 0.24 | **0.186** | na | **na** |
| | | EMA-02-09 | 1.10 | 0.38 | **0.297** | 0.038 | **0.030** | 0.23 | **0.184** | 0.14 | **0.110** | 0.33 | **0.258** | na | **na** | na | **na** |
| | | EMA-02-10 | 0.69 | | | | | | | | | | | | | | |
| | | EMA-02-11 | 0.47 | | | | | | | | | | | | | | |
| | | EMA-02-12 | 0.87 | | | | | | | | | | | | | | |
| | | **EMA-02 Median*** | **1.266** | | **0.064** | | **0.030** | | **0.203** | | **0.136** | | **0.221** | | **0.222** | | **1.346** |
| | EMA-03 | EMA-03-31 | 0.30 | 0.049 | **nd** | 0.15 | **0.152** | 0.30 | **0.297** | 0.12 | **0.120** | 0.42 | **0.426** | 0.28 | **0.278** | na | **na** |
| | | EMA-03-32 | 0.43 | 0.047 | **nd** | 0.13 | **0.128** | 0.41 | **0.415** | 0.14 | **0.138** | 0.37 | **0.370** | 0.37 | **0.371** | na | **na** |
| | | EMA-03-33 | 0.45 | 0.049 | **nd** | 0.12 | **0.124** | 0.28 | **0.286** | 0.20 | **0.206** | 0.36 | **0.365** | 1.8 | **1.764** | na | **na** |
| | | EMA-03-34 | 0.51 | | | | | | | | | | | | | | |
| | | EMA-03-35 | 0.81 | | | | | | | | | | | | | | |
| | | EMA-03-36 | 0.75 | | | | | | | | | | | | | | |
| | | **EMA-03 Median*** | **0.995** | | **NA** | | **0.128** | | **0.297** | | **0.138** | | **0.370** | | **0.371** | | **NA** |
| | | **Reach C5 (Median)** | | | **0.069** | | **0.128** | | **0.286** | | **0.163** | | **0.258** | | **0.362** | | **0.972** |
| | | **Middle (Median)** | | | **0.069** | | **0.128** | | **0.286** | | **0.163** | | **0.258** | | **0.362** | | **0.972** |
| | | **95% Confidence Limits 2** | | | NA | | (0.030 - 0.152) | | (0.203 - 0.297) | | NA | | (0.192 - 0.365) | | NA | | NA |

**Table B-5. Sediment and Aquatic Biota (non-fish) Mercury Data and Median BAF Calculations (mg/kg dw)[1]**
**Anniston PCB Site, Anniston, Alabama**

| AA | BSA | Sampling Location | Sediment | Aquatic Plants | Aquatic Plants BAFs | Emergent Insects | Emergent Insects BAFs | Benthic Invertebrates | Benthic Invertebrates BAFs | Crayfish | Crayfish BAFs | Molluscs | Molluscs BAFs | Frog | Frog BAFs | Snake | Snake BAFs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lower | ELA-01 | ELA-01-55 | 0.345 | 0.046 | **nd** | 0.16 | **0.077** | 0.36 | **0.176** | 0.72 | **nd** | 0.56 | **0.277** | na | **na** | 0.78 | **0.384** |
| | | ELA-01-56 | 0.19 | 0.052 | **0.026** | 0.21 | **0.102** | 0.36 | **0.176** | 0.26 | **0.129** | 0.80 | **0.398** | na | **na** | 1.1 | **0.558** |
| | | ELA-01-57 | 0.62 | 0.048 | **nd** | 0.25 | **0.125** | 0.32 | **0.159** | 0.19 | **0.094** | 0.52 | **0.257** | na | **na** | 0.94 | **0.465** |
| | | ELA-01-58 | 0.69 | | | | | | | | | | | | | | |
| | | ELA-01-59 | 6.30 | | | | | | | | | | | | | | |
| | | ELA-01-60 | 0.58 | | | | | | | | | | | | | | |
| | | HHFL-04 | 0.38 | | | | | | | | | | | | | | |
| | | **ELA-01 Median*** | **2.022** | | **0.026** | | **0.102** | | **0.176** | | **0.111** | | **0.277** | | **NA** | | **0.465** |
| | ELA-02 | ELA-02-61 | 0.91 | 0.092 | **0.090** | 0.14 | **0.133** | 0.27 | **0.259** | 0.29 | **0.278** | 0.78 | **0.754** | 0.56 | **0.543** | 1.9 | **1.830** |
| | | ELA-02-62 | 0.75 | 0.069 | **0.067** | 0.19 | **0.182** | 0.58 | **0.562** | 0.20 | **0.198** | 0.85 | **0.826** | 0.32 | **0.312** | na | **na** |
| | | ELA-02-63 | 0.49 | 0.033 | **0.032** | 0.24 | **0.229** | 0.25 | **0.246** | 0.21 | **0.208** | 1.0 | **0.984** | na | **na** | na | **na** |
| | | ELA-02-64 | 0.27 | | | | | | | | | | | | | | |
| | | ELA-02-65 | 0.52 | | | | | | | | | | | | | | |
| | | ELA-02-66 | 0.59 | | | | | | | | | | | | | | |
| | | **ELA-02 Median*** | **1.031** | | **0.067** | | **0.182** | | **0.259** | | **0.208** | | **0.826** | | **0.428** | | **1.830** |
| | ELA-03 | ELA-03-67 | 1.60 | 0.073 | **0.097** | 0.08 | **0.109** | 0.26 | **0.355** | 0.11 | **0.147** | 0.73 | **0.979** | na | **na** | 2.1 | **2.842** |
| | | ELA-03-68 | 0.37 | 0.067 | **0.089** | 0.11 | **0.143** | 0.70 | **0.935** | 0.14 | **0.192** | 0.88 | **1.187** | na | **na** | 1.4 | **1.890** |
| | | ELA-03-69 | 0.43 | 0.060 | **0.080** | 0.17 | **0.225** | 0.34 | **0.455** | 0.14 | **0.194** | 0.78 | **1.046** | na | **na** | 0.42 | **0.570** |
| | | ELA-03-70 | 0.16 | | | | | | | | | | | | | | |
| | | ELA-03-71 | 0.22 | | | | | | | | | | | | | | |
| | | ELA-03-72 | 0.19 | | | | | | | | | | | | | | |
| | | **ELA-03 Median*** | **0.745** | | **0.089** | | **0.143** | | **0.455** | | **0.192** | | **1.046** | | **NA** | | **1.890** |
| | | **Reach C7 (Median)** | | | **0.080** | | **0.133** | | **0.259** | | **0.193** | | **0.826** | | **0.428** | | **0.570** |
| | | **Lower (Median)** | | | **0.080** | | **0.133** | | **0.259** | | **0.193** | | **0.826** | | **0.428** | | **0.570** |
| | | **95% Confidence Limits 2** | | | NA | | (0.102 - 0.143) | | (0.177 - 0.355) | | NA | | (0.277 - 0.979) | | NA | | NA |
| | | **Sitewide (Median)** | | | **0.084** | | **0.143** | | **0.246** | | **0.163** | | **0.330** | | **0.374** | | **0.598** |
| | | **95% Confidence Limits 2** | | | (0.064 - 0.090) | | (0.109 - 0.182) | | (0.182 - 0.286) | | (0.120 - 0.193) | | (0.257 - 0.384) | | (0.259 - 0.608) | | (0.465 - 1.35) |
| Reference | ERA-01 | ERA-01-49 | 0.013 | 0.064 | **4.348** | 0.066 | **4.434** | 0.091 | **6.178** | na | **na** | 0.23 | **15.593** | na | **na** | 1.0 | **69.631** |
| | | ERA-01-50 | 0.024 | 0.034 | **nd** | 0.047 | **3.187** | 0.072 | **4.870** | na | **na** | 0.20 | **13.643** | na | **na** | 0.52 | **34.856** |
| | | ERA-01-51 | 0.014 | 0.046 | **3.126** | 0.035 | **2.396** | 0.090 | **6.069** | na | **na** | 0.24 | **16.124** | na | **na** | 0.41 | **27.720** |
| | | ERA-01-52 | 0.015 | | | | | | | | | | | | | | |
| | | ERA-01-53 | 0.015 | | | | | | | | | | | | | | |
| | | ERA-01-54 | 0.027 | | | | | | | | | | | | | | |
| | ERA-02 | ERA-02-13 | 0.012 | 0.038 | **nd** | 0.068 | **2.839** | 0.10 | **4.077** | 0.06 | **2.583** | 0.70 | **29.231** | 0.11 | **4.460** | 0.50 | **21.008** |
| | | ERA-02-14 | 0.026 | 0.035 | **1.479** | 0.041 | **1.730** | 0.16 | **6.843** | 0.10 | **4.269** | 0.57 | **23.817** | 0.11 | **4.755** | na | **na** |
| | | ERA-02-15 | 0.034 | 0.041 | **nd** | 0.048 | **2.016** | 0.20 | **8.514** | 0.09 | **3.757** | 0.68 | **28.359** | na | **na** | na | **na** |
| | | ERA-02-16 | 0.015 | | | | | | | | | | | | | | |
| | | ERA-02-17 | 0.016 | | | | | | | | | | | | | | |
| | | ERA-02-18 | 0.015 | | | | | | | | | | | | | | |
| | ERA-03 | ERA-03-37 | 0.110 | 0.036 | **nd** | 0.17 | **1.673** | 0.075 | **0.763** | na | **na** | 0.29 | **2.956** | 0.11 | **1.102** | 0.32 | **3.271** |
| | | ERA-03-38 | 0.032 | 0.033 | **nd** | 0.17 | **1.719** | 0.064 | **0.644** | na | **na** | 0.20 | **2.050** | na | **na** | 0.57 | **5.807** |
| | | ERA-03-39 | 0.041 | 0.033 | **nd** | 0.25 | **2.511** | 0.070 | **0.708** | na | **na** | 0.17 | **1.730** | 0.28 | **2.821** | na | **na** |
| | | ERA-03-40 | 0.013 | | | | | | | | | | | | | | |
| | | ERA-03-41 | 0.014 | | | | | | | | | | | | | | |
| | | ERA-03-42 | 0.041 | | | | | | | | | | | | | | |

**Table B-5. Sediment and Aquatic Biota (non-fish) Mercury Data and Median BAF Calculations (mg/kg dw)[1]**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**

Indicates a reach-specific median BAF
Indicates an assessment area median BAF
Indicates a sitewide median BAF

Red text indicates value is shown at the reporting limit

[1] Sediment concentration for the BSA is the Kaplan-Meier mean and includes nondetected concentrations.

[2] Non-parametric confidence limits calculated using methods from Conover (1980). Minimum of nine samples required for calculation. See text for details.

AA: assessment area
BAF: bioaccumulation factor
BSA: biological sampling area
dw: dry weight
mg/kg: milligrams per kilogram
na: no sample aquired in specified area.
nd: ratio not calculated because PCBs not detected in sediment or tissue
* Median BAF for each BSA is based on the tissue concentration for a sampling location divided by the Kaplan-Meier mean for sediment in the BSA.

**Table B-6. Sediment and Fish PCB Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

| AA | BSA | Sampling Location | Total PCBs (mg/kg dry weight)[1,2] | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sediment | Forage Fish | Forage Fish BAF | Bottom Fish | Bottom Fish BAF | Predator Fish | Predator Fish BAF | All Fish BAF |
| Upper | EUA-01 | EUA-01-19 | 1.10 | 19 | **11.0** | 34 | **20.0** | 61 | **36.0** | |
| | | EUA-01-20 | 3.08 | 6.8 | **4.0** | 41 | **24.3** | 63 | **37.2** | |
| | | EUA-01-21 | 0.81 | 9.7 | **5.8** | 43 | **25.3** | 22 | **12.9** | |
| | | EUA-01-22 | 1.96 | 17 | **10.2** | | | | | |
| | | EUA-01-23 | 0.35 | 17 | **9.8** | | | | | |
| | | EUA-01-24 | 2.83 | 17 | **10.3** | | | | | |
| | | | | 14 | **8.1** | | | | | |
| | | | | 19 | **11.5** | | | | | |
| | | **EUA-01 Median*** | **1.69** | | **10.2** | | **24.3** | | **36.0** | **11.5** |
| | | **Reach C2 (Median)** | | | **10.2** | | **24.3** | | **36.0** | **11.5** |
| | EUA-02 | EUA-02-43 | 1377.48 | 24 | **21.5** | 48 | **44.0** | 89 | **80.6** | |
| | | EUA-02-44 | 0.40 | 34 | **30.7** | 46 | **41.6** | 49 | **44.4** | |
| | | EUA-02-45 | 1.51 | 12 | **11.1** | 66 | **60.2** | 94 | **85.8** | |
| | | EUA-02-46 | 0.26 | 20 | **17.9** | | | | | |
| | | EUA-02-47 | 1.63 | 18 | **16.8** | | | | | |
| | | EUA-02-48 | 0.87 | 24 | **22.2** | | | | | |
| | | **EUA-02 Median*** | **1.10** | | **17.9** | | **44.0** | | **80.6** | **22.2** |
| | | **Reach C3 (Median)** | | | **17.9** | | **44.0** | | **80.6** | **22.2** |
| | EUA-03 | EUA-03-25 | 1.24 | 33 | **32.2** | 67 | **66.4** | 114 | **112.3** | |
| | | EUA-03-26 | 1.45 | 17 | **16.4** | 68 | **66.5** | 175 | **172.6** | |
| | | EUA-03-27 | 0.28 | 8.3 | **8.2** | 61 | **60.4** | 90 | **88.4** | |
| | | EUA-03-28 | 0.36 | 44 | **43.1** | | | | | |
| | | EUA-03-29 | 2.35 | 22 | **22.0** | | | | | |
| | | EUA-03-30 | 0.42 | 31 | **30.3** | | | | | |
| | | | | 31 | **30.2** | | | | | |
| | | **EUA-03 Median*** | **1.02** | | **30.2** | | **66.4** | | **112** | **32.5** |
| | | **Reach C4 (Median)** | | | **30.2** | | **66.4** | | **112** | **32.5** |
| | | **Upper (Median)** | | | **16.6** | | **44.0** | | **80.6** | **22.2** |
| | | **95% Confidence Limits 3** | | | (11.1 - 17.9) | | (24.3 - 60.2) | | (36.0 - 85.8) | (16.8 - 30.7) |
| Middle | EMA-01 | EMA-01-01 | 1.22 | 26 | **25.6** | 51 | **49.2** | 72 | **69.5** | |
| | | EMA-01-02 | 0.70 | 23 | **22.0** | 22 | **21.6** | 48 | **46.6** | |
| | | EMA-01-03 | 950.00 | 22 | **21.0** | 18 | **17.7** | 37 | **35.9** | |
| | | EMA-01-04 | 0.36 | 35 | **34.4** | | | | | |
| | | EMA-01-05 | 1.30 | 36 | **34.7** | | | | | |
| | | EMA-01-06 | 2.27 | 32 | **31.4** | | | | | |
| | | HHFL-05 | 0.23 | 51 | **49.6** | | | | | |
| | | | | 49 | **47.6** | | | | | |
| | | | | 41 | **40.0** | | | | | |
| | | **EMA-01 Median*** | **1.03** | | **34.42** | | **21.59** | | **46.60** | **34.72** |
| | EMA-02 | EMA-02-07 | 2.37 | 29 | **10.3** | 31 | **11.1** | 110 | **39.4** | |
| | | EMA-02-08 | 1.31 | 28 | **10.1** | 35 | **12.6** | 44 | **15.8** | |
| | | EMA-02-09 | 5.15 | 21 | **7.5** | 33 | **11.9** | 39 | **14.1** | |
| | | EMA-02-10 | 2.27 | 35 | **12.5** | | | | | |
| | | EMA-02-11 | 1.95 | 36 | **12.9** | | | | | |
| | | EMA-02-12 | 3.64 | 35 | **12.5** | | | | | |
| | | | | 25 | **9.1** | | | | | |
| | | **EMA-02 Median*** | **2.78** | | **12.49** | | **11.94** | | **15.80** | **12.52** |
| | EMA-03 | EMA-03-31 | 0.23 | 24 | **20.9** | 46 | **41.1** | 80 | **71.3** | |
| | | EMA-03-32 | 0.041 | 25 | **22.3** | 27 | **24.3** | 110 | **97.7** | |
| | | EMA-03-33 | 0.38 | 21 | **18.2** | 27 | **23.7** | 126 | **112.3** | |
| | | EMA-03-34 | 0.69 | 46 | **40.9** | | | | | |
| | | EMA-03-35 | 3.90 | 38 | **33.5** | | | | | |
| | | EMA-03-36 | 1.51 | 36 | **32.1** | | | | | |
| | | | | 29 | **25.8** | | | | | |
| | | | | 18 | **16.3** | | | | | |
| | | | | 29 | **25.9** | | | | | |
| | | **EMA-03 Median*** | **1.13** | | **25.78** | | **24.33** | | **97.73** | **25.88** |
| | | **Reach C5 (Median)** | | | **22.01** | | **21.59** | | **46.60** | **23.72** |
| | | **Middle (Median)** | | | **22.01** | | **21.59** | | **46.60** | **23.72** |
| | | **95% Confidence Limits 3** | | | (16.4 - 25.8) | | (11.9 - 23.7) | | (15.8 - 69.5) | (18.2 - 31.4) |

**Table B-6. Sediment and Fish PCB Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

| AA | BSA | Sampling Location | Total PCBs (mg/kg dry weight)[1,2] | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sediment | Forage Fish | Forage Fish BAF | Bottom Fish | Bottom Fish BAF | Predator Fish | Predator Fish BAF | All Fish BAF |
| Lower | ELA-01 | ELA-01-55 | 328.89 | 22 | **15.5** | 68 | **48.0** | 88 | **62.1** | |
| | | ELA-01-56 | 0.26 | 35 | **24.9** | 68 | **48.0** | 93 | **65.8** | |
| | | ELA-01-57 | 1.97 | 38 | **26.9** | 46 | **32.7** | 127 | **89.6** | |
| | | ELA-01-58 | 2.65 | 32 | **22.4** | | | | | |
| | | ELA-01-59 | 0.82 | 32 | **22.4** | | | | | |
| | | ELA-01-60 | 2.37 | 33 | **23.6** | | | | | |
| | | HHFL-04 | 1.31 | 26 | **18.3** | | | | | |
| | | | | 22 | **15.6** | | | | | |
| | | | | 30 | **21.3** | | | | | |
| | | **ELA-01 Median*** | **1.42** | | **22.4** | | **48.0** | | **65.8** | **24.9** |
| | ELA-02 | ELA-02-61 | 3.90 | 24 | **9.61** | 38 | **15.7** | 42 | **17.3** | |
| | | ELA-02-62 | 2.37 | 24 | **9.78** | 30 | **12.2** | 76 | **30.9** | |
| | | ELA-02-63 | 2.99 | 20 | **8.23** | 22 | **9.14** | 51 | **20.9** | |
| | | ELA-02-64 | 3.17 | 29 | **11.8** | | | | | |
| | | ELA-02-65 | 1.19 | 47 | **19.3** | | | | | |
| | | ELA-02-66 | 1.10 | 35 | **14.3** | | | | | |
| | | | | 31 | **12.7** | | | | | |
| | | | | 30 | **12.1** | | | | | |
| | | | | 16 | **6.71** | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | **ELA-02 Median*** | **2.45** | | **11.8** | | **12.2** | | **20.9** | **12.2** |
| | ELA-03 | ELA-03-67 | 4.20 | 25 | **19.8** | 84 | **65.5** | 99 | **77.1** | |
| | | ELA-03-68 | 0.98 | 23 | **18.1** | 56 | **43.6** | 119 | **92.6** | |
| | | ELA-03-69 | 2.04 | 17 | **13.3** | 68 | **52.7** | 53 | **41.0** | |
| | | ELA-03-70 | 0.04 | 45 | **34.8** | | | | | |
| | | ELA-03-71 | 0.10 | 44 | **34.6** | | | | | |
| | | ELA-03-72 | 0.36 | 31 | **24.3** | | | | | |
| | | | | 35 | **27.4** | | | | | |
| | | | | 38 | **29.2** | | | | | |
| | | | | 44 | **34.0** | | | | | |
| | | **ELA-03 Median*** | **1.29** | | **27.4** | | **52.7** | | **77.1** | **34.6** |
| | | **Reach C7 (Median)** | | | **19.3** | | **43.6** | | **62.1** | **22.4** |
| | | **Lower (Median)** | | | **19.3** | | **43.6** | | **62.1** | **22.4** |
| | | **95% Confidence Limits 3** | | | (14.3 - 22.4) | | (12.2 - 47.6) | | (20.9 - 65.8) | (18.1 - 27.4) |
| | | **Sitewide (Median)** | | | **18.2** | | **32.7** | | **62.1** | **22.4** |
| | | **95% Confidence Limits 3** | | | (16.4 - 21.3) | | | | | |
| Reference | ERA-01 | ERA-01-49 | 0.041 | 11 | **nd** | 0.57 | **nd** | 13 | **nd** | |
| | | ERA-01-50 | 0.053 | 3.6 | **nd** | 0.55 | **nd** | 5.1 | **nd** | |
| | | ERA-01-51 | 0.038 | 1.6 | **nd** | 0.74 | **nd** | 8.8 | **nd** | |
| | | ERA-01-52 | 0.040 | 0.82 | **nd** | | | | | |
| | | ERA-01-53 | 13.415 | 0.93 | **nd** | | | | | |
| | | ERA-01-54 | 0.074 | 1.7 | **nd** | | | | | |
| | | | | 3.8 | **nd** | | | | | |
| | | | | 1.2 | **nd** | | | | | |
| | | | | 17 | **nd** | | | | | |
| | ERA-02 | ERA-02-13 | 0.034 | 0.25 | **nd** | 0.040 | **nd** | 0.95 | **nd** | |
| | | ERA-02-14 | 0.072 | 0.30 | **nd** | 0.039 | **nd** | 1.4 | **nd** | |
| | | ERA-02-15 | 0.080 | 0.043 | **nd** | 0.037 | **nd** | 0.19 | **nd** | |
| | | ERA-02-16 | 0.047 | 0.042 | **nd** | | | | | |
| | | ERA-02-17 | 0.041 | 0.09 | **nd** | | | | | |
| | | ERA-02-18 | 0.044 | 0.046 | **nd** | | | | | |
| | | | | 0.38 | **nd** | | | | | |
| | | | | 0.042 | **nd** | | | | | |
| | | | | 0.042 | **nd** | | | | | |
| | ERA-03 | ERA-03-37 | 0.110 | 0.10 | **nd** | 0.036 | **nd** | 1.0 | **nd** | |
| | | ERA-03-38 | 0.059 | 1.0 | **nd** | 0.62 | **nd** | 0.88 | **nd** | |
| | | ERA-03-39 | 0.071 | 0.86 | **nd** | 0.43 | **nd** | 0.44 | **nd** | |
| | | ERA-03-40 | 0.040 | 0.12 | **nd** | | | | | |
| | | ERA-03-41 | 0.041 | 0.26 | **nd** | | | | | |
| | | ERA-03-42 | 0.094 | 0.52 | **nd** | | | | | |
| | | | | 0.26 | **nd** | | | | | |
| | | | | 1.5 | **nd** | | | | | |
| | | | | 0.65 | **nd** | | | | | |

**Table B-6. Sediment and Fish PCB Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**

Indicates a reach-specific median BAF
Indicates an assessment area median BAF
Indicates a sitewide median BAF

Red text indicates value is shown at the reporting limit

[1] All fish tissue PCB concentrations were measured as Aroclors

[2] Sediment concentration for the BSA is the Kaplan-Meier mean and includes nondetected concentrations.

[3] Non-parametric confidence limits calculated using methods from Conover (1980). Minimum of nine samples required for calculation. See text for details.

AA: assessment area

BAF: bioaccumulation factor

BSA: biological sampling area

mg/kg: milligrams per kilogram

PCB: polychlorinated biphenyl

nd: ratio not calculated because PCBs not detected in sediment or tissue

PCB: polychlorinated biphenyl

* Median BAF for each BSA is based on the tissue concentration for a sampling location divided by the Kaplan-Meier mean for sediment in the BSA.

**Table B-7. Sediment and Fish Mercury Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

| AA | BSA | Sampling Location | Mercury (mg/kg dry weight)[1] | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sediment | Forage Fish | Forage Fish BAF | Bottom Fish | Bottom Fish BAF | Predator Fish | Predator Fish BAF | All Fish BAF |
| Upper | EUA-01 | EUA-01-19 | 2.60 | 0.15 | **0.09** | 0.26 | **0.16** | 0.96 | **0.58** | |
| | | EUA-01-20 | 0.83 | 0.066 | **0.04** | 0.48 | **0.29** | 0.96 | **0.57** | |
| | | EUA-01-21 | 2.90 | 0.061 | **0.04** | 0.27 | **0.16** | 0.86 | **0.51** | |
| | | EUA-01-22 | 0.30 | 0.20 | **0.12** | | | | | |
| | | EUA-01-23 | 0.78 | 0.15 | **0.09** | | | | | |
| | | EUA-01-24 | 0.75 | 0.16 | **0.09** | | | | | |
| | | HHFL-04 | 0.38 | 0.24 | **0.14** | | | | | |
| | | | | 0.089 | **0.05** | | | | | |
| | | | | 0.11 | **0.07** | | | | | |
| | | **EUA-01 Median*** | **1.674** | | **0.090** | | **0.160** | | **0.572** | **0.117** |
| | | **Reach C2 (Median)** | | | **0.09** | | **0.16** | | **0.57** | **0.12** |
| | EUA-02 | EUA-02-43 | 0.47 | 0.25 | **0.32** | 0.75 | **0.97** | 1.1 | **1.37** | |
| | | EUA-02-44 | 0.04 | 0.20 | **0.26** | 0.37 | **0.48** | 1.6 | **2.07** | |
| | | EUA-02-45 | 0.32 | 0.22 | **0.29** | 0.46 | **0.59** | 0.98 | **1.27** | |
| | | EUA-02-46 | 0.05 | 0.21 | **0.27** | | | | | |
| | | EUA-02-47 | 1.00 | 0.16 | **0.20** | | | | | |
| | | EUA-02-48 | 1.30 | 0.13 | **0.17** | | | | | |
| | | | 0.65 | 0.22 | **0.28** | | | | | |
| | | | | 0.11 | **0.14** | | | | | |
| | | | | 0.20 | **0.26** | | | | | |
| | | **EUA-02 Median*** | **0.773** | | **0.264** | | **0.593** | | **1.37** | **0.287** |
| | | **Reach C3 (Median)** | | | **0.26** | | **0.59** | | **1.37** | **0.29** |
| | EUA-03 | EUA-03-25 | 1.30 | 0.25 | **0.26** | 0.50 | **0.51** | 1.9 | **1.99** | |
| | | EUA-03-26 | 0.91 | 0.091 | **0.09** | 0.69 | **0.70** | 1.4 | **1.44** | |
| | | EUA-03-27 | 0.27 | 0.084 | **0.09** | 0.39 | **0.39** | 1.4 | **1.40** | |
| | | EUA-03-28 | 0.35 | 0.28 | **0.28** | | | | | |
| | | EUA-03-29 | 0.86 | 0.18 | **0.18** | | | | | |
| | | EUA-03-30 | 1.00 | 0.13 | **0.13** | | | | | |
| | | | | 0.25 | **0.25** | | | | | |
| | | | | 0.13 | **0.13** | | | | | |
| | | | | 0.092 | **nd** | | | | | |
| | | **EUA-03 Median*** | **0.981** | | **0.156** | | **0.512** | | **1.44** | **0.270** |
| | | **Reach C4 (Median)** | | | **0.16** | | **0.51** | | **1.44** | **0.27** |
| | | **Upper (Median)** | | | **0.14** | | **0.48** | | **1.37** | **0.26** |
| | | **95% Confidence Limits 2** | | | (0.09 - 0.20) | | (0.16 - 0.51) | | (0.57 - 1.40) | (0.16 - 0.29) |
| Middle | EMA-01 | EMA-01-01 | 0.43 | 0.35 | **0.39** | 0.43 | **0.47** | 1.2 | **1.34** | |
| | | EMA-01-02 | 0.61 | 0.37 | **0.40** | 0.19 | **0.22** | 1.4 | **1.54** | |
| | | EMA-01-03 | 0.73 | 0.24 | **0.26** | 0.21 | **0.23** | 1.2 | **1.37** | |
| | | EMA-01-04 | 0.74 | 0.38 | **0.42** | | | | | |
| | | EMA-01-05 | 0.50 | 0.38 | **0.42** | | | | | |
| | | EMA-01-06 | 0.91 | 0.38 | **0.42** | | | | | |
| | | HHFL-05 | 0.74 | 0.58 | **0.64** | | | | | |
| | | | | 0.54 | **0.60** | | | | | |
| | | | | 0.52 | **0.58** | | | | | |
| | | **EMA-01 Median*** | **0.903** | | **0.419** | | **0.231** | | **1.37** | **0.422** |
| | EMA-02 | EMA-02-07 | 0.65 | 0.43 | **0.34** | 0.16 | **0.12** | 1.5 | **1.22** | |
| | | EMA-02-08 | 0.84 | 0.34 | **0.27** | 0.40 | **0.32** | 1.6 | **1.23** | |
| | | EMA-02-09 | 1.10 | 0.34 | **0.27** | 0.37 | **0.29** | 1.1 | **0.89** | |
| | | EMA-02-10 | 0.69 | 0.61 | **0.48** | | | | | |
| | | EMA-02-11 | 0.47 | 0.51 | **0.41** | | | | | |
| | | EMA-02-12 | 0.87 | 0.59 | **0.47** | | | | | |
| | | | | 0.76 | **0.60** | | | | | |
| | | | | 0.61 | **0.48** | | | | | |
| | | | | 0.52 | **0.41** | | | | | |
| | | **EMA-02 Median*** | **1.266** | | **0.414** | | **0.292** | | **1.22** | **0.414** |

**Table B-7. Sediment and Fish Mercury Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

| AA | BSA | Sampling Location | Mercury (mg/kg dry weight)[1] | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sediment | Forage Fish | Forage Fish BAF | Bottom Fish | Bottom Fish BAF | Predator Fish | Predator Fish BAF | All Fish BAF |
| Middle | EMA-03 | EMA-03-31 | 0.30 | 0.31 | **0.31** | 0.47 | **0.47** | 2.0 | **1.98** | |
| | | EMA-03-32 | 0.43 | 0.45 | **0.45** | 0.43 | **0.43** | 0.97 | **0.97** | |
| | | EMA-03-33 | 0.45 | 0.29 | **0.29** | 0.28 | **0.29** | 1.6 | **1.63** | |
| | | EMA-03-34 | 0.51 | 0.48 | **0.49** | | | | | |
| | | EMA-03-35 | 0.81 | 0.55 | **0.55** | | | | | |
| | | EMA-03-36 | 0.75 | 0.48 | **0.48** | | | | | |
| | | | | 0.65 | **0.65** | | | | | |
| | | | | 0.51 | **0.51** | | | | | |
| | | | | 0.54 | **0.54** | | | | | |
| | | **EMA-03 Median*** | **0.995** | | **0.487** | | **0.431** | | **1.63** | **0.487** |
| | | **Reach C5 (Median)** | | | **0.45** | | **0.29** | | **1.34** | **0.47** |
| | | **Middle (Median)** | | | **0.45** | | **0.29** | | **1.34** | **0.47** |
| | | **95% Confidence Limits 2** | | | (0.41 - 0.48) | | (0.22 - 0.32) | | (0.97 - 1.37) | (0.41 - 0.49) |
| Lower | ELA-01 | ELA-01-55 | 0.35 | 0.38 | **0.19** | 0.35 | **0.17** | 2.4 | **1.17** | |
| | | ELA-01-56 | 0.19 | 0.45 | **0.22** | 1.0 | **0.52** | 1.5 | **0.73** | |
| | | ELA-01-57 | 0.62 | 0.62 | **0.30** | 0.66 | **0.32** | 2.2 | **1.08** | |
| | | ELA-01-58 | 0.69 | 0.74 | **0.36** | | | | | |
| | | ELA-01-59 | 6.30 | 0.61 | **0.30** | | | | | |
| | | ELA-01-60 | 0.58 | 0.79 | **0.39** | | | | | |
| | | HHFL-04 | 0.38 | 0.41 | **0.20** | | | | | |
| | | | | 0.35 | **0.17** | | | | | |
| | | | | 0.45 | **0.22** | | | | | |
| | | **ELA-01 Median*** | **2.022** | | **0.225** | | **0.324** | | **1.08** | **0.304** |
| | ELA-02 | ELA-02-61 | 0.91 | 0.27 | **0.26** | 0.36 | **0.35** | 1.7 | **1.62** | |
| | | ELA-02-62 | 0.75 | 0.21 | **0.21** | 0.41 | **0.40** | 1.6 | **1.58** | |
| | | ELA-02-63 | 0.49 | 0.30 | **0.29** | 0.41 | **0.40** | 1.6 | **1.56** | |
| | | ELA-02-64 | 0.27 | 0.57 | **0.55** | | | | | |
| | | ELA-02-65 | 0.52 | 0.68 | **0.66** | | | | | |
| | | ELA-02-66 | 0.59 | 0.57 | **0.56** | | | | | |
| | | | | 0.47 | **0.46** | | | | | |
| | | | | 0.43 | **0.42** | | | | | |
| | | **ELA-02 Median*** | **1.031** | | **0.458** | | **0.396** | | **1.58** | **0.458** |
| | ELA-03 | ELA-03-67 | 1.60 | 0.52 | **0.70** | 1.4 | **1.89** | 2.4 | **3.27** | |
| | | ELA-03-68 | 0.37 | 0.40 | **0.54** | 0.73 | **0.97** | 1.9 | **2.58** | |
| | | ELA-03-69 | 0.43 | 0.49 | **0.66** | 0.73 | **0.98** | 3.0 | **4.08** | |
| | | ELA-03-70 | 0.16 | 0.77 | **1.04** | | | | | |
| | | ELA-03-71 | 0.22 | 0.91 | **1.22** | | | | | |
| | | ELA-03-72 | 0.19 | 0.69 | **0.92** | | | | | |
| | | | | 0.85 | **1.14** | | | | | |
| | | | | 1.1 | **1.46** | | | | | |
| | | | | 0.99 | **1.33** | | | | | |
| | | **ELA-03 Median*** | **0.745** | | **1.04** | | **0.98** | | **3.27** | **1.14** |
| | | **Reach C7 (Median)** | | | **0.46** | | **0.40** | | **1.58** | **0.55** |
| | | **Lower (Median)** | | | **0.46** | | **0.40** | | **1.58** | **0.55** |
| | | **95% Confidence Limits 2** | | | (0.30 - 0.55) | | (0.32 - 0.52) | | (1.08 - 1.62) | (0.40 - 0.73) |
| | | **Sitewide (Median)** | | | **0.32** | | **0.40** | | **1.38** | **0.43** |
| | | **95% Confidence Limits 2** | | | (0.27 - 0.41) | | (0.29 - 0.47) | | (1.22 - 1.54) | (0.39 - 0.48) |

**Table B-7. Sediment and Fish Mercury Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

| AA | BSA | Sampling Location | Mercury (mg/kg dry weight)[1] | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sediment | Forage Fish | Forage Fish BAF | Bottom Fish | Bottom Fish BAF | Predator Fish | Predator Fish BAF | All Fish BAF |
| Reference | ERA-01 | ERA-01-49 | 0.01 | 0.41 | **27.47** | 0.31 | **21.10** | 0.47 | **31.67** | |
| | | ERA-01-50 | 0.02 | 0.46 | **31.19** | 0.30 | **20.37** | 0.55 | **37.05** | |
| | | ERA-01-51 | 0.01 | 0.36 | **24.37** | 0.71 | **47.81** | 0.74 | **50.32** | |
| | | ERA-01-52 | 0.02 | 0.31 | **21.22** | | | | | |
| | | ERA-01-53 | 0.02 | 0.47 | **31.76** | | | | | |
| | | ERA-01-54 | 0.03 | 0.40 | **27.36** | | | | | |
| | | | | 0.36 | **24.13** | | | | | |
| | | | | 0.33 | **22.16** | | | | | |
| | | | | 0.36 | **24.15** | | | | | |
| | ERA-02 | ERA-02-13 | 0.01 | 0.34 | **14.07** | 0.77 | **32.05** | 1.4 | **57.96** | |
| | | ERA-02-14 | 0.03 | 0.24 | **10.24** | 0.51 | **21.33** | 2.5 | **102.97** | |
| | | ERA-02-15 | 0.03 | 0.30 | **12.73** | 0.48 | **20.15** | 1.1 | **47.67** | |
| | | ERA-02-16 | 0.02 | 0.26 | **10.95** | | | | | |
| | | ERA-02-17 | 0.02 | 0.38 | **15.74** | | | | | |
| | | ERA-02-18 | 0.02 | 0.34 | **14.07** | | | | | |
| | | | | 0.29 | **12.22** | | | | | |
| | | | | 0.19 | **8.09** | | | | | |
| | | | | 0.32 | **13.30** | | | | | |
| | ERA-03 | ERA-03-37 | 0.11 | 0.14 | **1.42** | 0.22 | **2.27** | 1.0 | **10.41** | |
| | | ERA-03-38 | 0.03 | 0.093 | **0.94** | 0.33 | **3.34** | 0.82 | **8.31** | |
| | | ERA-03-39 | 0.04 | 0.12 | **1.19** | 0.32 | **3.23** | 0.72 | **7.33** | |
| | | ERA-03-40 | 0.01 | 0.22 | **2.22** | | | | | |
| | | ERA-03-41 | 0.01 | 0.13 | **1.29** | | | | | |
| | | ERA-03-42 | 0.04 | 0.09 | **0.89** | | | | | |
| | | | | 0.26 | **2.67** | | | | | |
| | | | | 0.12 | **1.26** | | | | | |
| | | | | 0.077 | **0.78** | | | | | |

**Notes:**

Indicates a reach-specific median BAF
Indicates an assessment area median BAF
Indicates a sitewide median BAF

Red text indicates value is shown at the reporting limit

[1] Sediment concentration for the BSA is the Kaplan-Meier mean and includes non-detected concentrations.

[2] Non-parametric confidence limits calculated using methods from Conover (1980). Minimum of nine samples required for calculation. See text for details.

BSA: biological sampling area
mg/kg: milligrams per kilogram
PCB: polychlorinated biphenyl
TOC: total organic carbon
nd: ratio not calculated because PCBs not detected in sediment or tissue
* Median BAF for each BSA is based on the tissue concentration for a sampling location divided by the KM mean for sediment in the BSA.

**Table B-8. Percent Solids Summary for Aquatic Biota and Fish**
**Anniston PCB Site, Anniston, Alabama**

| AA | BSA | Sediment Location | Sediment TOC | Percent Fines | Percent Solids | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Emergent Insects | Benthic Invertebrates | Crayfish | Mollusc | Frog | Snake | Forage Fish | Bottom Fish | Predator Fish |
| Lower | ELA-01 | ELA-01-55 | 3855 | 51 | 15.6 | 30.3 | 14.3 | 27.6 | 5.9 | na | 23.2 | 26.4 | 26.5 | 25.0 |
| | | ELA-01-56 | 3020 | 14 | 18.0 | 31.4 | 15.7 | 27.7 | 5.1 | na | 25.7 | 24.2 | 26.8 | 27.9 |
| | | ELA-01-57 | 10600 | 48 | 15.7 | 29.6 | 18.4 | 28.5 | 7.9 | na | 25.5 | 26.0 | 24.4 | 27.6 |
| | | ELA-01-58 | 16200 | 56 | | | | | | | | | | |
| | | ELA-01-59 | 10100 | 53 | | | | | | | | | | |
| | | ELA-01-60 | 22200 | 71 | | | | | | | | | | |
| | | HHFL-04 | 3640 | 21 | | | | | | | | | | |
| | ELA-02 | ELA-02-61 | 24800 | 40 | 24.9 | 37.2 | 17.2 | 27.2 | 8.2 | 23.2 | 26.5 | 24.6 | 33.3 | 29.9 |
| | | ELA-02-62 | 23300 | 48 | 23.3 | 34.2 | 19.0 | 27.9 | 8.1 | 19.3 | na | 24.5 | 24.5 | 24.5 |
| | | ELA-02-63 | 2350 | 41 | 20.3 | 30.9 | 18.5 | 24.3 | 6.9 | na | na | 25.4 | 41.5 | 31.8 |
| | | ELA-02-64 | 660 | 25 | | | | | | | | | | |
| | | ELA-02-65 | 13100 | 27 | | | | | | | | | | |
| | | ELA-02-66 | 4000 | 70 | | | | | | | | | | |
| | ELA-03 | ELA-03-67 | 14300 | 52 | 19.3 | 28.3 | 17.0 | 29.3 | 8.2 | na | 22.2 | 25.1 | 24.8 | 24.2 |
| | | ELA-03-68 | 3110 | 95 | 21.0 | 18.8 | 15.8 | 27.9 | 6.9 | na | 27.7 | 24.5 | 26.2 | 26.0 |
| | | ELA-03-69 | 9750 | 76 | 20.1 | 29.2 | 18.9 | 31.1 | 7.7 | na | 25.9 | 24.5 | 24.6 | 27.3 |
| | | ELA-03-70 | 2090 | 11 | | | | | | | | | | |
| | | ELA-03-71 | 620 | 14 | | | | | | | | | | |
| | | ELA-03-72 | 1850 | 73 | | | | | | | | | | |
| Middle | EMA-01 | EMA-01-01 | 10000 | 36 | 20.8 | 31.0 | 23.6 | 26.7 | 9.8 | 23.8 | 25.9 | 25.4 | 32.7 | 24.0 |
| | | EMA-01-02 | 2270 | 17 | 14.5 | 33.4 | 22.2 | 27.0 | 8.7 | 25.1 | na | 24.9 | 28.3 | 28.1 |
| | | EMA-01-03 | 2345 | 18 | 22.1 | 31.4 | 19.0 | na | 8.8 | na | na | 24.7 | 31.7 | 29.2 |
| | | EMA-01-04 | 3940 | 38 | | | | | | | | | | |
| | | EMA-01-05 | 11400 | 46 | | | | | | | | | | |
| | | EMA-01-06 | 13400 | 71 | | | | | | | | | | |
| | | HHFL-05 | 2300 | 19 | | | | | | | | | | |
| | EMA-02 | EMA-02-07 | 20100 | 33 | 12.6 | 29.7 | 22.5 | 23.8 | 7.9 | 18.9 | 26.4 | 25.4 | 31.8 | 29.2 |
| | | EMA-02-08 | 3740 | 18 | 13.5 | 32.6 | 17.1 | na | 8.2 | 20.0 | na | 26.2 | 37.4 | 33.9 |
| | | EMA-02-09 | 12200 | 22 | 15.7 | 39.0 | 20.2 | 25.1 | 9.5 | na | na | 26.3 | 29.8 | 32.9 |
| | | EMA-02-10 | 19300 | 49 | | | | | | | | | | |
| | | EMA-02-11 | 13000 | 55 | | | | | | | | | | |
| | | EMA-02-12 | 23500 | 39 | | | | | | | | | | |
| | EMA-03 | EMA-03-31 | 3460 | 16 | 14.5 | 31.8 | 19.3 | 36.1 | 8.5 | 24.6 | na | 23.5 | 27.9 | 25.9 |
| | | EMA-03-32 | 30300 | 12 | 15.2 | 34.5 | 15.0 | 34.3 | 8.7 | 24.1 | na | 24.7 | 28.0 | 25.9 |
| | | EMA-03-33 | 7050 | 29 | 14.4 | 35.7 | 17.6 | 40.1 | 10.2 | 18.8 | na | 24.0 | 33.7 | 25.3 |
| | | EMA-03-34 | 4920 | 27 | | | | | | | | | | |
| | | EMA-03-35 | 37300 | 21 | | | | | | | | | | |
| | | EMA-03-36 | 31300 | 22 | | | | | | | | | | |

**Table B-8. Percent Solids Summary for Aquatic Biota and Fish**
**Anniston PCB Site, Anniston, Alabama**

| AA | BSA | Sediment Location | Sediment TOC | Percent Fines | Percent Solids | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Emergent Insects | Benthic Invertebrates | Crayfish | Mollusc | Frog | Snake | Forage Fish | Bottom Fish | Predator Fish |
| Upper | EUA-01 | EUA-01-19 | 4010 | 16 | 14.9 | 30.9 | 18.4 | 24.3 | 7.8 | 23.8 | 29.7 | 26.4 | 30.5 | 28.0 |
| | | EUA-01-20 | 4880 | 20 | 17.9 | 29.6 | 19.5 | 25.8 | 8.6 | 21.6 | na | 25.7 | 31.2 | 28.2 |
| | | EUA-01-21 | 3790 | 7 | 16.4 | 31.8 | 18.6 | 27.6 | 8.2 | na | na | 24.7 | 31.4 | 25.7 |
| | | EUA-01-22 | 3050 | 51 | | | | | | | | | | |
| | | EUA-01-23 | 4370 | 10 | | | | | | | | | | |
| | | EUA-01-24 | 6360 | 62 | | | | | | | | | | |
| | EUA-02 | EUA-02-43 | 5855 | 86 | 24.1 | 27.0 | 24.2 | 25.0 | 8.2 | 19.6 | 23.0 | 22.4 | 32.0 | 29.3 |
| | | EUA-02-44 | 2140 | 33 | 22.4 | 29.4 | 9.0 | 29.8 | 8.2 | 22.4 | na | 22.5 | 25.3 | 36.8 |
| | | EUA-02-45 | 2700 | 73 | 23.0 | 32.2 | 18.0 | 22.1 | 8.8 | na | na | 22.1 | 24.0 | 25.4 |
| | | EUA-02-46 | 7600 | 69 | | | | | | | | | | |
| | | EUA-02-47 | 14000 | 68 | | | | | | | | | | |
| | | EUA-02-48 | 5380 | 24 | | | | | | | | | | |
| | EUA-03 | EUA-03-25 | 6950 | 14 | 19.3 | 31.2 | 19.6 | 27.4 | 8.2 | 24.7 | na | 24.6 | 27.9 | 27.2 |
| | | EUA-03-26 | 4560 | 18 | 18.8 | 33.2 | 18.4 | na | 8.2 | 19.4 | na | 24.1 | 27.7 | 23.4 |
| | | EUA-03-27 | 10700 | 10 | 18.6 | 30.9 | 23.6 | na | 10.8 | 18.7 | na | 25.1 | 31.0 | 26.2 |
| | | EUA-03-28 | 4160 | 9 | | | | | | | | | | |
| | | EUA-03-29 | 4790 | 46 | | | | | | | | | | |
| | | EUA-03-30 | 630 | 15 | | | | | | | | | | |
| Reference | ERA-01 | ERA-01-49 | 2450 | 13 | 20.2 | 32.0 | 17.5 | na | 10.4 | na | 26.2 | 24.6 | 31.7 | 38.4 |
| | | ERA-01-50 | 16200 | 73 | 21.2 | 31.8 | 22.2 | na | 10.4 | na | 25.2 | 26.0 | 32.5 | 31.0 |
| | | ERA-01-51 | 575 | 28 | 21.4 | 28.2 | 16.7 | na | 8.8 | na | 23.4 | 24.4 | 21.2 | 37.6 |
| | | ERA-01-52 | 610 | 34 | | | | | | | | | | |
| | | ERA-01-53 | 2360 | 29 | | | | | | | | | | |
| | | ERA-01-54 | 26000 | 64 | | | | | | | | | | |
| | ERA-02 | ERA-02-13 | 7340 | 7 | 20.1 | 28.0 | 19.5 | 24.3 | 7.3 | 19.7 | 23.9 | 22.9 | 23.5 | 29.6 |
| | | ERA-02-14 | 26700 | 38 | 23.2 | 26.6 | 21.4 | 29.4 | 6.5 | 17.6 | na | 24.1 | 25.5 | 25.6 |
| | | ERA-02-15 | 36200 | 15 | 16.8 | 33.2 | 17.2 | 24.5 | 9.0 | na | na | 23.0 | 27.0 | 23.7 |
| | | ERA-02-16 | 6830 | 55 | | | | | | | | | | |
| | | ERA-02-17 | 3580 | 16 | | | | | | | | | | |
| | | ERA-02-18 | 5180 | 30 | | | | | | | | | | |
| | ERA-03 | ERA-03-37 | 128000 | 7 | 20.2 | 27.2 | 15.9 | na | 6.5 | 21.1 | 30.6 | 22.1 | 26.3 | 30.1 |
| | | ERA-03-38 | 34600 | 30 | 21.9 | 30.0 | 15.7 | na | 7.4 | na | 29.6 | 25.9 | 23.6 | 36.5 |
| | | ERA-03-39 | 26500 | 10 | 21.8 | 30.6 | 15.7 | na | 7.6 | 23.3 | na | 25.5 | 23.5 | 27.6 |
| | | ERA-03-40 | 2480 | 9 | | | | | | | | | | |
| | | ERA-03-41 | 5320 | 6 | | | | | | | | | | |
| | | ERA-03-42 | 48300 | 35 | | | | | | | | | | |

**Notes:**
Red text indicates value is shown at half the reporting limit
AA: assessment area
BSA: biological sampling area
na: no sample aquired in specified area
PCB: polychlorinated biphenyl
TOC: total organic carbon

**Table B-9. Regression Analysis for PCBs in Sediment and Aquatic Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Tissue Type | Measure | Sediment Measurement | | | |
|---|---|---|---|---|---|
| | | Aroclor - dw | Homolog - dw | Aroclor TOC Normal - dw | Aroclor Fines Normal - dw |
| Aquatic Plants | dw | 0.073 | **0.42 (0.17)** | 0.0016 | 0.21 |
| | ww | 0.00055 | 0.15 | 0.014 | 0.050 |
| | Lipid Normal - ww | 0.072 | **0.45 (0.14)** | 0.0015 | 0.23 |
| Emergent Insects | dw | 0.21 | 0.054 | 0.017 | 0.079 |
| | ww | 0.20 | 0.053 | 0.014 | 0.068 |
| | Lipid Normal - ww | 0.20 | 0.054 | 0.022 | 0.095 |
| Emergent Insects (Mixed Insects Only) | dw | 0.0034 | 0.0017 | 0.18 | 0.012 |
| | ww | 0.059 | 0.0089 | 0.20 | 0.14 |
| | Lipid Normal - ww | 0.014 | 0.00034 | **0.31 (0.20)** | 0.00034 |
| Benthic Invertebrates | dw | 0.011 | 0.24 | 0.00078 | 0.25 |
| | ww | 0.035 | 0.25 | 0.000029 | **0.39 (0.07)** |
| | Lipid Normal - ww | 0.044 | 0.25 | 0.065 | 0.13 |
| Crayfish | dw | 0.15 | 0.23 | 0.033 | 0.039 |
| | ww | 0.22 | 0.27 | 0.00016 | 0.048 |
| | Lipid Normal - ww | 0.27 | **0.57** | 0.0037 | 0.20 |
| Mollusc | dw | 0.11 | 0.011 | 0.00056 | 0.093 |
| | ww | 0.13 | 0.011 | 0.00085 | 0.028 |
| | Lipid Normal - ww | 0.0027 | 0.0022 | 0.025 | 0.0013 |
| Frogs | dw | 0.10 | 0.019 | 0.090 | 0.0088 |
| | ww | 0.11 | 0.029 | 0.098 | 0.011 |
| | Lipid Normal - ww | 0.089 | 0.000023 | 0.028 | 0.0040 |
| Snakes | dw | **0.47** | **0.39** | 0.0041 | **0.40** |
| | ww | **0.50** | **0.45** | 0.0053 | **0.40** |
| | Lipid Normal - ww | 0.27 | 0.20 | 0.0079 | 0.26 |
| Forage Fish | dw | 0.019 | 0.033 | **0.36** | 0.021 |
| | ww | 0.055 | 0.078 | **0.37** | 0.00047 |
| | Lipid Normal - ww | 0.13 | 0.087 | 0.093 | 0.22 |
| Bottom Fish | dw | 0.27 | 0.023 | 0.031 | **0.36** |
| | ww | 0.22 | 0.00012 | 0.013 | 0.22 |
| | Lipid Normal - ww | 0.13 | 0.047 | 0.13 | 0.038 |
| Predator Fish | dw | 0.22 | 0.031 | **0.41** | 0.090 |
| | ww | 0.15 | 0.11 | **0.39** | 0.075 |
| | Lipid Normal - ww | 0.074 | 0.0031 | 0.011 | 0.0040 |
| All Fish | dw | 0.17 | 0.045 | **0.50** | 0.21 |
| | ww | 0.072 | 0.19 | **0.55** | 0.11 |
| | Lipid Normal - ww | 0.12 | 0.14 | 0.0019 | 0.028 |

**Notes:**

**Bold** indicates $r^2$ value ≥ 0.3.

Red values indicate that regression showed a negative correlation.

$r^2$: the coefficient of determination

Highlighted cells indicate an $r^2$ value ≥ 0.3 and a p value < 0.1

(p values in parenthesis) - p value of 0.1 indicates statistical significance at a probability of 90%

p values calculated only for positive correlations with $r^2$ > 0.3

dw: dry weight

TOC: total organic carbon

ww: wet weight

**Table B-10. Regression Analysis for PCBs in Sediment and Aquatic Tissues (Log-Transformed Data)**
**Anniston PCB Site, Anniston, Alabama**

| Tissue Type | Measure | Sediment Measurement | | | |
|---|---|---|---|---|---|
| | | Aroclor - dw | Homolog - dw | Aroclor TOC Normal - dw | Aroclor Fines Normal - dw |
| Aquatic Plants | dw | 0.062 | 0.10 | 0.024 | 0.12 |
| | ww | 0.044 | 0.019 | 0.084 | 0.081 |
| | Lipid Normal - ww | 0.069 | 0.15 | 0.032 | 0.16 |
| Emergent Insects | dw | 0.086 | 0.00031 | 0.0053 | 0.0027 |
| | ww | 0.063 | 0.000010 | 0.0061 | 0.00011 |
| | Lipid Normal - ww | 0.078 | 0.00087 | 0.030 | 0.0041 |
| Emergent Insects (Mixed Insects Only) | dw | 0.0035 | 0.28 | 0.075 | 0.00079 |
| | ww | 0.063 | 0.29 | 0.090 | 0.061 |
| | Lipid Normal - ww | 0.00062 | 0.24 | 0.030 | 0.0035 |
| Benthic Invertebrates | dw | 0.088 | 0.17 | 0.00054 | 0.22 |
| | ww | 0.094 | 0.065 | 0.0021 | **0.26 (0.16)** |
| | Lipid Normal - ww | 0.11 | **0.37 (0.20)** | 0.010 | 0.18 |
| Crayfish | dw | 0.042 | 0.14 | 0.0033 | 0.025 |
| | ww | 0.10 | 0.13 | 0.015 | 0.040 |
| | Lipid Normal - ww | 0.018 | **0.47** | 0.0072 | 0.052 |
| Mollusc | dw | 0.10 | 0.071 | 0.093 | 0.0034 |
| | ww | 0.11 | 0.053 | 0.12 | 0.0038 |
| | Lipid Normal - ww | 0.011 | 0.12 | 0.043 | 0.013 |
| Frogs | dw | 0.14 | 0.0018 | 0.20 | 0.14 |
| | ww | 0.051 | 0.0036 | 0.19 | 0.10 |
| | Lipid Normal - ww | 0.0023 | 0.050 | 0.27 | 0.26 |
| Snakes | dw | **0.39** | **0.53** | 0.16 | **0.52** |
| | ww | **0.39** | **0.58** | 0.12 | **0.49** |
| | Lipid Normal - ww | 0.12 | **0.35** | 0.020 | **0.31** |
| Forage Fish | dw | 0.0029 | 0.008 | 0.26 | 0.12 |
| | ww | 0.00062 | 0.00023 | 0.24 | 0.067 |
| | Lipid Normal - ww | 0.14 | 0.13 | 0.25 | 0.18 |
| Bottom Fish | dw | **0.32** | 0.041 | 0.010 | 0.16 |
| | ww | 0.22 | 0.13 | 0.00029 | 0.057 |
| | Lipid Normal - ww | 0.11 | 0.009 | 0.094 | 0.00040 |
| Predator Fish | dw | 0.28 | 0.058 | **0.57** | 0.078 |
| | ww | 0.17 | 0.13 | **0.53** | 0.054 |
| | Lipid Normal - ww | 0.10 | 0.081 | 0.042 | 0.0014 |
| All Fish | dw | 0.17 | 0.0018 | **0.47** | 0.24 |
| | ww | 0.058 | 0.025 | **0.44** | 0.13 |
| | Lipid Normal - ww | 0.22 | 0.19 | 0.057 | 0.063 |

**Notes:**

**Bold** indicates $r^2$ value ≥ 0.3.

Red values indicate that regression showed a negative correlation.

$r^2$ = the coefficient of determination

Highlighted cells indicate an $r^2$ value ≥ 0.3 and a p value < 0.1

(p values in parenthesis) - p value of 0.1 indicates statistical significance at a probability of 90%

p values calculated only for positive correlations with $r^2$ > 0.3

dw: dry weight

TOC: total organic carbon

ww: wet weight

**Table B-11. Regression Analysis of Mercury in Sediment and Biotic Tissues - $r^2$ Values**
**Anniston PCB Site, Anniston, Alabama**

| Tissue Type | Measure | Sediment Measurement | |
|---|---|---|---|
| | | Mercury - dw | Mercury Fines Normal - dw |
| Aquatic Plants | dw | 0.01 | 0.00 |
| | ww | 0.00 | 0.05 |
| Emergent Insects | dw | 0.07 | 0.01 |
| | ww | 0.07 | 0.01 |
| Benthic Invertebrates | dw | 0.17 | 0.00 |
| | ww | 0.17 | 0.00 |
| Crayfish | dw | 0.17 | 0.01 |
| | ww | 0.12 | 0.02 |
| Mollusc | dw | 0.001 | 0.13 |
| | ww | 0.02 | 0.15 |
| Frogs | dw | **0.47 *** | **0.48 *** |
| | ww | **0.50 (0.03)** | **0.53 (0.03)** |
| Snakes | dw | 0.11 | 0.01 |
| | ww | 0.13 | 0.02 |
| Forage Fish | dw | 0.00 | 0.13 |
| | ww | 0.01 | 0.11 |
| Bottom Fish | dw | 0.001 | 0.05 |
| | ww | 0.02 | 0.02 |
| Predator Fish | dw | 0.06 | 0.03 |
| | ww | 0.05 | 0.06 |
| All Fish | dw | 0.02 | 0.08 |
| | ww | 0.03 | 0.09 |

**Notes:**
**Bold** indicates the $r^2$ value is ≥ 0.3.
Red values indicate that regression showed a negative correlation.
$r^2$ : the coefficient of determination
(p values in parenthesis) - p value of 0.1 indicates 90% probability that the slope of the regression is significantly different from zero
p values calculated only for positive correlations with $r^2 > 0.3$
Highlighted cells indicate an $r^2$ value ≥ 0.3 and a p value < 0.1
*p value not calculated because correlation pair with higher $r^2$ value evaluated instead.
dw: dry weight
PCB: polychlorinated biphenyl
ww: wet weight

**Table B-12. Regression Analysis of log Mercury in Sediment and Biotic Tissues - $r^2$ Values**
**Anniston PCB Site, Anniston, Alabama**

| Tissue Type | Measure | Sediment Measurement | |
|---|---|---|---|
| | | Mercury - dw | Mercury Fines Normal - dw |
| Aquatic Plants | dw | 0.23 | 0.13 |
| | ww | 0.08 | 0.02 |
| Emergent Insects | dw | 0.20 | 0.21 |
| | ww | 0.24 | 0.25 |
| Benthic Invertebrates | dw | 0.14 | **0.39 *** |
| | ww | **0.59 (0.003)** | **0.43 *** |
| Crayfish | dw | **0.51 (0.02)** | 0.29 |
| | ww | **0.48 *** | **0.31 *** |
| Mollusc | dw | 0.00096 | 0.00 |
| | ww | 0.00049 | 0.00 |
| Frogs | dw | **0.62 (0.01)** | **0.88 (0.0002)** |
| | ww | **0.61 *** | **0.85 *** |
| Snakes | dw | **0.40 *** | 0.26 |
| | ww | **0.41 (0.05)** | **0.31 *** |
| Forage Fish | dw | 0.02 | 0.00 |
| | ww | 0.03 | 0.00 |
| Bottom Fish | dw | 0.00 | 0.02 |
| | ww | 0.01 | 0.00 |
| Predator Fish | dw | 0.27 | 0.26 |
| | ww | 0.22 | 0.17 |
| All Fish | dw | 0.04 | 0.00 |
| | ww | 0.05 | 0.00 |

**Notes:**

**Bold** indicates the $r^2$ value is ≥ 0.3.

Red values indicate that regression showed a negative correlation.

$r^2$ = the coefficient of determination

Highlighted cells indicate an $r^2$ value ≥ 0.3 and a p value < 0.1

(p values in parenthesis) - p value of 0.1 indicates 90% probability that the slope of the regression is significantly different from zero.

p values calculated only for positive correlations with $r^2$ > 0.3.

*p value not calculated because correlation pair with higher $r^2$ value evaluated instead.

dw: dry weight

PCB: polychlorinated biphenyl

ww: wet weight

**Table B-13. PCB - Laboratory Bioaccumulation Study - Oligochaete (*Lumbriculus*) Tissue Uptake Summary**
**(sediment and tissue measured as homologs)**
**Anniston PCB Site, Anniston, Alabama**

| Sample Name | Sediment | | Tissue | | BAF | BSAF |
|---|---|---|---|---|---|---|
| | mg Homolog PCB/kg sediment dw | mg Homolog PCB/kg TOC dw | mg Homolog PCB/kg tissue ww | mg Homolog PCB/kg lipid tissue ww | dw sediment/ww tissue | TOC dw/lipid ww |
| 1 | 68.0 | 3617 | 106 | 6190 | 1.6 | 1.7 |
| 2 | 120 | 3922 | 60.0 | 3681 | 0.5 | 0.94 |
| 11 | 170 | 4521 | 137 | 10748 | 0.8 | 2.4 |
| 13 | 31.0 | 2818 | 47.2 | 3152 | 1.5 | 1.1 |
| 14 | 68.0 | 3560 | 118 | 8129 | 1.7 | 2.3 |
| 16 | 0.0912 | 34 | 1.92 | 128 | 21 | 3.7 |
| 20 | 8.80 | 793 | 23.4 | 1399 | 2.7 | 1.8 |
| 23 | 15.0 | 721 | 21.3 | 1214 | 1.4 | 1.7 |
| 24 | 0.310 | 140.9 | 8.01 | 607 | 26 | 4.3 |
| 25 | 60.0 | 2317 | 101 | 3500 | 1.7 | 1.5 |
| 27 | 14.0 | 915 | 65.9 | 3615 | 4.7 | 4.0 |
| 28 | 0.410 | 74 | 2.3 | 178 | 5.6 | 2.4 |
| Average | 46.3 | 1953 | 57.8 | 3545 | 1.2 | 1.8 |
| Median | | | | | 1.7 | 1.8 |

**Notes:**
BAF: bioaccumulation factor (dry weight tissue vs dry weight sediment)
BSA: biological sampling area
BSAF: biota/sediment accumulation factor (ww lipid normalized tissue vs dw organic carbon normalized sediment)
dw: dry weight
kg: kilogram(s)
mg: milligram(s)
PCB: polychlorinated biphenyl
TOC: total organic carbon
ww: wet weight

**Table B-14. PCB - Laboratory Bioaccumulation Study - Oligochaete (*Lumbriculus* ) Tissue Uptake Summary (tissue and sediment measured as homologs and Aroclors, respectively)**
**Anniston PCB Site, Anniston, Alabama**

| Sample Name | Sediment | | Tissue | | BAF | BSAF |
|---|---|---|---|---|---|---|
| | mg Aroclor PCB/kg sediment dw | mg Aroclor PCB/kg TOC dw | mg Homolog PCB/kg tissue ww | mg Homolog PCB/kg lipid tissue ww | dw sediment/ww tissue | TOC dw/lipid ww |
| 1 | 27.0 | 1436 | 106 | 6190 | 3.9 | 4.3 |
| 2 | 37.1 | 1212 | 60.0 | 3681 | 1.6 | 3.0 |
| 11 | 71.0 | 1888 | 137 | 10748 | 1.9 | 5.7 |
| 13 | 14.1 | 1282 | 47.2 | 3152 | 3.4 | 2.5 |
| 14 | 28.3 | 1482 | 118 | 8129 | 4.2 | 5.5 |
| 16 | 0.0480 | 18.1 | 1.92 | 128 | 40 | 7.1 |
| 20 | 3.08 | 277 | 23.4 | 1399 | 7.6 | 5.0 |
| 23 | 4.90 | 236 | 21.3 | 1214 | 4.4 | 5.2 |
| 24 | 0.270 | 123 | 8.01 | 607 | 30 | 4.9 |
| 25 | 26.3 | 1015 | 101 | 3500 | 3.9 | 3.4 |
| 27 | 7.23 | 473 | 65.9 | 3615 | 9.1 | 7.6 |
| 28 | 0.535 | 97.0 | 2.28 | 178 | 4.3 | 1.8 |
| Average | 18.3 | 795 | 57.8 | 3545 | 3.2 | 4.5 |
| Median | | | | | 4.2 | 4.9 |

**Notes:**
BAF: bioaccumulation factor (dry weight tissue vs dry weight sediment)
BSA: biological sampling area
BSAF: biota/sediment accumulation factor (ww lipid normalized tissue vs dw organic carbon normalized sediment)
dw: dry weight
kg: kilogram(s)
mg: milligram(s)
PCB: polychlorinated biphenyl
TOC: total organic carbon
ww: wet weight

**Table B-15. Soil and Terrestrial Biota PCB Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | BSA | Soil ID | PCB Results (mg/kg dry weight)[1,2] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | Terrestrial Plants | Terrestrial Plants BAFs | Worm | Worm BAFs | Terrestrial Insects | Terrestrial Insects BAFs | Small Mammals | Small Mammals BAFs |
| Upper | EUT-01-FF | EUT-01-09 | 0.043 | 0.196 | **nd** | 0.071 | **nd** | na | **na** | 0.053 | **nd** |
| | | EUT-01-10 | 0.044 | 0.124 | **nd** | 0.178 | **nd** | na | **na** | 0.481 | **na** |
| | | EUT-01-C2N-18 | 0.044 | na | **na** | 0.137 | **nd** | na | **na** | na | **na** |
| | | **EUT-01 Median*** | **ND** | | **NA** | | **NA** | | **NA** | | **NA** |
| | EUT-02-FF | EUT-02-11 | 0.044 | 0.200 | **nd** | na | **na** | na | **na** | 0.319 | **7.413** |
| | | EUT-02-12 | 0.041 | 0.213 | **nd** | na | **na** | na | **na** | 0.378 | **8.794** |
| | | EUT-02-C2N-22 | 0.046 | | | | | | | | |
| | | EUT-02-C2N-26 | 0.049 | | | | | | | | |
| | | **EUT-02 Median*** | **0.043** | | **NA** | | **NA** | | **NA** | | **8.10** |
| | EUT-03-SF | EUT-03-13 | 0.044 | 0.140 | **nd** | na | **na** | na | **na** | 0.484 | **9.261** |
| | | EUT-03-13_1 | 0.043 | 0.047 | **nd** | na | **na** | na | **na** | 0.053 | **nd** |
| | | EUT-03-14 | 0.046 | na | **na** | na | **na** | na | **na** | na | **na** |
| | | EUT-03-C2N-21 | 0.070 | | | | | | | | |
| | | **EUT-03 Median*** | **0.052** | | **NA** | | **NA** | | **NA** | | **9.26** |
| | | **Reach C2 (Median)** | | | **NA** | | **NA** | | **NA** | | **8.79** |
| | EUT-04-MF | EUT-04-07 | 3.400 | 0.058 | **nd** | na | **na** | na | **na** | 2.953 | **0.563** |
| | | EUT-04-08 | 2.570 | 0.055 | **nd** | na | **na** | na | **na** | 1.222 | **0.233** |
| | | ***EUT-04-C3N-03*** | 9.760 | | | | | | | | |
| | | **EUT-04 Median*** | **5.243** | | **NA** | | **NA** | | **NA** | | **0.40** |
| | EUT-05-MF | EUT-05-05 | 9.700 | 0.042 | **nd** | na | **na** | na | **na** | na | **na** |
| | | EUT-05-06 | 5.630 | 0.073 | **nd** | na | **na** | na | **na** | na | **na** |
| | | EUT-05-C3N-08 | 20.200 | | | | | | | | |
| | | EUT-05-C3N-09 | 3.660 | | | | | | | | |
| | | EUT-05-C3N-10 | 9.300 | | | | | | | | |
| | | EUT-05-C3NF-05 | 20.900 | | | | | | | | |
| | | EUT-05-C3NF-07 | 4.720 | | | | | | | | |
| | | EUT-05-C3NF-08 | 10.500 | | | | | | | | |
| | | EUT-05-C3NF-10 | 10.300 | | | | | | | | |
| | | EUT-05-C3NF-11 | 14.000 | | | | | | | | |
| | | **EUT-05 Median*** | **10.890** | | **NA** | | **NA** | | **NA** | | **NA** |
| | EUT-06-MF | EUT-06-03 | 7.900 | 0.068 | **nd** | 13.976 | **1.974** | 0.155 | **nd** | 1.488 | **0.210** |
| | | EUT-06-04 | 6.630 | 0.033 | **nd** | 20.969 | **2.962** | 0.086 | **nd** | 0.991 | **0.140** |
| | | EUT-06-C3N-14 | 6.710 | na | **na** | 21.673 | **3.061** | 0.175 | **nd** | na | **na** |
| | | **EUT-06 Median*** | **7.080** | | **NA** | | **2.96** | | **NA** | | **0.18** |

**Table B-15. Soil and Terrestrial Biota PCB Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | BSA | Soil ID | PCB Results (mg/kg dry weight)[1,2] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | Terrestrial Plants | Terrestrial Plants BAFs | Worm | Worm BAFs | Terrestrial Insects | Terrestrial Insects BAFs | Small Mammals | Small Mammals BAFs |
| Upper | EUT-07-SF | EUT-07-01 | 3.900 | 0.140 | **nd** | na | **na** | na | **na** | 0.478 | **0.180** |
| | | EUT-07-02 | 2.140 | 0.109 | **nd** | na | **na** | na | **na** | 0.447 | **0.169** |
| | | EUT-07-C3NF-17 | 1.910 | | | | | | | | |
| | | **EUT-07 Median*** | **2.650** | | **NA** | | **NA** | | **NA** | | **0.17** |
| | | **Reach C3 (Median)** | | | **NA** | | **2.96** | | **NA** | | **0.20** |
| | EUT-08-SF | EUT-08-49 | 6.230 | 0.081 | **nd** | 50.000 | **4.566** | 0.182 | **nd** | 8.125 | **0.742** |
| | | EUT-08-50 | 25.200 | 0.057 | **nd** | 48.052 | **4.388** | 0.155 | **nd** | 5.500 | **0.502** |
| | | | na | na | **na** | 84.644 | **7.730** | 0.134 | **nd** | na | **na** |
| | | ***EUT-08-C3S-27*** | 1.410 | | | | | | | | |
| | | **EUT-08 Median*** | **10.950** | | **NA** | | **4.57** | | **NA** | | **0.62** |
| | EUT-09-FF | EUT-09-51 | 2.660 | 0.057 | **nd** | na | **na** | na | **na** | 13.531 | **0.506** |
| | | EUT-09-51_1 | 1.350 | 0.257 | **0.010** | na | **na** | na | **na** | 8.719 | **0.326** |
| | | EUT-09-C4S-04 | 51.500 | | | | | | | | |
| | | **EUT-09 Median*** | **26.750** | | **0.01** | | **NA** | | **NA** | | **0.42** |
| | | **Reach C4 (Median)** | | | **0.01** | | **4.57** | | **NA** | | **0.50** |
| | | **Upper (Median)** | | | **0.01** | | **3.72** | | **AA ND** | | **0.50** |
| | | **95% Confidence Limits 3** | | | NA | | NA | | NA | | (0.18 - 0.56) |
| Middle | EMT-01-SF | EMT-01-25 | 0.038 | 0.034 | **nd** | 0.076 | **nd** | 0.140 | **nd** | 0.130 | **0.027** |
| | | EMT-01-26 | 0.037 | 0.079 | **nd** | 0.044 | **nd** | 0.159 | **nd** | 0.053 | **nd** |
| | | EMT-01-C5N-19 | 0.038 | na | **na** | 0.046 | **nd** | 0.138 | **nd** | na | **na** |
| | | **EMT-01 Median*** | **ND** | | **NA** | | **NA** | | **NA** | | **0.03** |
| | EMT-02-MF | EMT-02-17 | 0.407 | 0.106 | **nd** | na | **na** | na | **na** | na | **na** |
| | | EMT-02-17_1 | 0.284 | 0.080 | **nd** | na | **na** | na | **na** | na | **na** |
| | | EMT-02-18 | 0.374 | na | **na** | na | **na** | na | **na** | na | **na** |
| | | EMT-02-C5N-24 | 11.000 | | | | | | | | |
| | | **EMT-02 Median*** | **0.380** | | **NA** | | **NA** | | **NA** | | **NA** |
| | EMT-03-MF | EMT-03-15 | 0.036 | 0.114 | **nd** | na | **na** | na | **na** | 0.075 | **nd** |
| | | EMT-03-16 | 0.037 | 0.058 | **nd** | na | **na** | na | **na** | na | **na** |
| | | EMT-03-C5N-26 | 0.450 | | | | | | | | |
| | | EMT-03-C5N-27 | 0.037 | | | | | | | | |
| | | **EMT-03 Median*** | **0.140** | | **NA** | | **NA** | | **NA** | | **NA** |
| | EMT-04-MF | EMT-04-19 | 0.329 | 0.231 | **nd** | 1.325 | **8.720** | 0.176 | **nd** | na | **na** |
| | | EMT-04-20 | 0.187 | 0.056 | **nd** | 1.121 | **7.376** | 0.169 | **nd** | na | **na** |
| | | EMT-04-C5N-29 | 0.053 | na | **na** | 0.913 | **6.009** | 0.176 | **nd** | na | **na** |
| | | EMT-04-C-FP07-N3 | 0.086 | | | | | | | | |
| | | EMT-04-C5NF-10 | 0.038 | | | | | | | | |
| | | **EMT-04 Median*** | **0.152** | | **NA** | | **7.38** | | **NA** | | **NA** |

**Table B-15. Soil and Terrestrial Biota PCB Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | BSA | Soil ID | PCB Results (mg/kg dry weight)[1,2] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | Terrestrial Plants | Terrestrial Plants BAFs | Worm | Worm BAFs | Terrestrial Insects | Terrestrial Insects BAFs | Small Mammals | Small Mammals BAFs |
| Middle | EMT-05-FF | EMT-05-21 | 5.900 | 0.075 | **nd** | na | **na** | na | **na** | 4.500 | **1.142** |
| | | EMT-05-22 | 5.600 | 0.098 | **nd** | na | **na** | na | **na** | 2.878 | **0.731** |
| | | ***EMT-05-C5N-30*** | 0.316 | | | | | | | | |
| | | **EMT-05 Median*** | **3.939** | | **NA** | | **NA** | | **NA** | | **0.94** |
| | EMT-06-SF | EMT-06-23 | 0.075 | 0.041 | **nd** | na | **na** | na | **na** | 0.322 | **6.399** |
| | | EMT-06-24 | 0.042 | 0.050 | **nd** | na | **na** | na | **na** | 0.133 | **2.647** |
| | | EMT-06-C5N-31 | 0.038 | | | | | | | | |
| | | **EMT-06 Median*** | **0.050** | | **NA** | | **NA** | | **NA** | | **4.52** |
| | EMT-07-FF | EMT-07-27 | 0.230 | 0.437 | **0.407** | na | **na** | na | **na** | 0.078 | **nd** |
| | | EMT-07-28 | 1.430 | 0.310 | **0.289** | na | **na** | na | **na** | 20.344 | **18.942** |
| | | EMT-07-C5S-34 | 1.480 | | | | | | | | |
| | | EMT-07-C5S-36 | 2.190 | | | | | | | | |
| | | EMT-07-C5S-37 | 0.042 | | | | | | | | |
| | | **EMT-07 Median*** | **1.074** | | **0.35** | | **NA** | | **NA** | | **18.94** |
| | EMT-08-FF | EMT-08-29 | 1.320 | 0.080 | **nd** | 11.076 | **10.323** | na | **na** | 1.216 | **1.133** |
| | | EMT-08-30 | 1.560 | 0.104 | **nd** | 0.180 | **nd** | na | **na** | 1.859 | **1.733** |
| | | | na | na | **na** | 5.292 | **4.932** | na | **na** | na | **na** |
| | | ***EMT-08-C5S-40*** | 0.338 | | | | | | | | |
| | | **EMT-08 Median*** | **1.073** | | **NA** | | **7.63** | | **NA** | | **1.43** |
| | EMT-09-SF | EMT-09-31 | 0.362 | 0.052 | **nd** | na | **na** | na | **na** | na | **na** |
| | | EMT-09-32 | 0.194 | 0.071 | **nd** | na | **na** | na | **na** | na | **na** |
| | | EMT-09-C5S-44 | 0.048 | | | | | | | | |
| | | EMT-09-C5S-45 | 0.043 | | | | | | | | |
| | | **EMT-09 Median*** | **0.161** | | **NA** | | **NA** | | **NA** | | **NA** |
| | | **Reach C5 (Median)** | | | **0.35** | | **7.38** | | **NA** | | **1.44** |
| | | **Middle (Median)** | | | **0.35** | | **7.38** | | **AA ND** | | **1.44** |
| | | **95% Confidence Limits 3** | | | NA | | NA | | NA | | NA |
| Lower | ELT-01-SF | ELT-01-39 | 0.043 | 0.028 | **nd** | na | **na** | na | **na** | 0.147 | **nd** |
| | | ELT-01-39_1 | 0.037 | 0.161 | **nd** | na | **na** | na | **na** | 0.141 | **nd** |
| | | ELT-01-40 | 0.037 | na | **na** | na | **na** | na | **na** | na | **na** |
| | | ELT-01-C7S-01 | 0.036 | | | | | | | | |
| | | **ELT-01 Median*** | **0.0308** | | **NA** | | **NA** | | **NA** | | **NA** |
| | ELT-02-SF | ELT-02-37 | 0.039 | 0.082 | **nd** | 0.117 | **nd** | 0.192 | **nd** | 0.144 | **nd** |
| | | ELT-02-38 | 0.040 | 0.049 | **nd** | 0.184 | **nd** | 0.095 | **nd** | 0.053 | **nd** |
| | | ELT-02-C7S-03 | 1.750 | na | **na** | 0.107 | **nd** | 0.081 | **nd** | na | **na** |
| | | ELT-02-C7S-03-dup | 1.750 | | | | | | | | |
| | | **ELT-02 Median*** | **0.609** | | **NA** | | **NA** | | **NA** | | **NA** |
| | ELT-03-MF | ELT-03-41 | 0.041 | 0.066 | **nd** | na | **na** | na | **na** | 0.078 | **nd** |
| | | ELT-03-42 | 0.040 | 0.067 | **nd** | na | **na** | na | **na** | 0.175 | **nd** |
| | | ELT-03-C7S-11 | 0.036 | | | | | | | | |
| | | **ELT-03 Median*** | **ND** | | **NA** | | **NA** | | **NA** | | **NA** |

**Table B-15. Soil and Terrestrial Biota PCB Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | BSA | Soil ID | PCB Results (mg/kg dry weight)[1,2] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | Terrestrial Plants | Terrestrial Plants BAFs | Worm | Worm BAFs | Terrestrial Insects | Terrestrial Insects BAFs | Small Mammals | Small Mammals BAFs |
| Lower | ELT-04-SF | ELT-04-43 | 0.038 | 0.083 | **nd** | na | **na** | na | **na** | 0.075 | **nd** |
| | | ELT-04-44 | 0.041 | 0.169 | **nd** | na | **na** | na | **na** | na | **na** |
| | | ELT-04-C7S-12 | 0.035 | | | | | | | | |
| | | **ELT-04 Median*** | **ND** | | **NA** | | **NA** | | **NA** | | **NA** |
| | ELT-05-FF | ELT-05-45 | 2.030 | 0.075 | **nd** | na | **na** | na | **na** | 6.313 | **2.061** |
| | | ELT-05-46 | 5.000 | 0.166 | **nd** | na | **na** | na | **na** | 4.031 | **1.316** |
| | | ELT-05-C7S-14 | 2.160 | | | | | | | | |
| | | **ELT-05 Median*** | **3.063** | | **NA** | | **NA** | | **NA** | | **1.69** |
| | ELT-06-FF | ELT-06-47 | 2.700 | 0.139 | **nd** | 4.5 | **1.691** | na | **na** | 6.8 | **2.574** |
| | | ELT-06-48 | 2.570 | 0.348 | **nd** | 7.9 | **2.997** | na | **na** | 38.1 | **14.469** |
| | | | na | na | **na** | 5.366 | **2.037** | na | **na** | na | **na** |
| | | **ELT-06 Median*** | **2.635** | | **NA** | | **2.04** | | **NA** | | **8.52** |
| | ELT-07-FF | ELT-07-54 | 9.200 | 0.116 | **nd** | na | **na** | na | **na** | 5.625 | **1.161** |
| | | ELT-07-55 | 5.300 | 0.142 | **nd** | na | **na** | na | **na** | 0.050 | **nd** |
| | | ***ELT-07-C7S-22*** | 0.036 | | | | | | | | |
| | | **ELT-07 Median*** | **4.845** | | **NA** | | **NA** | | **NA** | | **1.16** |
| | ELT-08-MF | ELT-08-33 | 0.059 | 0.099 | **nd** | 3.304 | **55.336** | 0.177 | **nd** | 0.594 | **0.123** |
| | | ELT-08-34 | 0.082 | 0.059 | **nd** | 0.180 | **nd** | 0.160 | **nd** | 0.195 | **0.040** |
| | | ELT-08-C7N-28 | 0.038 | na | **na** | 6.923 | **115.964** | 0.171 | **nd** | na | **na** |
| | | **ELT-08 Median*** | **0.060** | | **NA** | | **85.65** | | **NA** | | **0.08** |
| | ELT-09-MF | ELT-09-35 | 0.110 | 0.063 | **nd** | na | **na** | na | **na** | 0.772 | **0.159** |
| | | ELT-09-36 | 0.144 | 0.060 | **nd** | na | **na** | na | **na** | 0.053 | **nd** |
| | | ELT-09-C7N-33 | 0.036 | | | | | | | | |
| | | ELT-09-C7N-34 | 0.062 | | | | | | | | |
| | | **ELT-09 Median*** | **0.088** | | **NA** | | **NA** | | **NA** | | **0.16** |
| | | **Reach C7 (Median)** | | | **NA** | | **3.00** | | **NA** | | **1.24** |
| | | **Lower (Median)** | | | **AA ND** | | **3.00** | | **AA ND** | | **1.24** |
| | | **95% Confidence Limits 3** | | | NA | | NA | | NA | | NA |
| | | **Sitewide (Median)** | | | **0.289** | | **4.75** | | **Site ND** | | **0.742** |
| | | **95% Confidence Limits 3** | | | NA | | (2.96 - 7.37) | | NA | | (0.326 - 1.16) |
| Reference | ERT-01-SF | ERT-01-52 | 0.041 | 0.063 | **nd** | na | **na** | na | **na** | 0.144 | **nd** |
| | | ERT-01-53 | 0.038 | 0.082 | **nd** | na | **na** | na | **na** | na | **na** |
| | | | na | 0.052 | **nd** | 0.208 | **nd** | 0.126 | **nd** | 0.156 | **nd** |
| | ERT-01-MF | ERT-01-62 | 0.043 | 0.060 | **nd** | 0.242 | **nd** | 0.158 | **nd** | 14.281 | **na** |
| | | ERT-01-63 | 0.044 | na | **na** | 0.177 | **nd** | 0.159 | **nd** | na | **na** |
| | ERT-02-MF | ERT-02-56 | 0.046 | 0.076 | **nd** | 0.136 | **nd** | 0.144 | **nd** | 0.153 | **nd** |
| | | ERT-02-56_1 | 0.044 | 0.067 | **nd** | 0.157 | **nd** | 0.156 | **nd** | 0.050 | **nd** |
| | | ERT-02-57 | 0.044 | na | **na** | 0.237 | **nd** | 0.142 | **nd** | na | **na** |
| | | | na | na | **na** | na | **na** | na | **na** | na | **na** |
| | ERT-02-SF | ERT-02-58 | 0.041 | 0.045 | **nd** | na | **na** | na | **na** | 0.050 | **nd** |
| | | ERT-02-59 | 0.042 | 0.051 | **nd** | na | **na** | na | **na** | 0.053 | **nd** |

**Table B-15. Soil and Terrestrial Biota PCB Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | BSA | Soil ID | PCB Results (mg/kg dry weight)[1,2] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | Terrestrial Plants | Terrestrial Plants BAFs | Worm | Worm BAFs | Terrestrial Insects | Terrestrial Insects BAFs | Small Mammals | Small Mammals BAFs |
| Reference | ERT-02-FF | ERT-02-60 | 0.042 | 0.044 | **nd** | na | **na** | na | **na** | 0.050 | **nd** |
| | | ERT-02-61 | 0.049 | 0.043 | **nd** | na | **na** | na | **na** | 0.053 | **nd** |
| | ERT-03-FF | ERT-03-64 | 0.044 | 0.278 | **nd** | 0.215 | **nd** | na | **na** | 0.078 | **nd** |
| | | ERT-03-65 | 0.050 | 0.157 | **nd** | 0.217 | **nd** | na | **na** | na | **na** |
| | | | na | na | **na** | 0.205 | **nd** | na | **na** | na | **na** |
| | ERT-03-SF | ERT-03-66 | 0.044 | 0.062 | **nd** | na | **na** | na | **na** | na | **na** |
| | | ERT-03-67 | 0.051 | 0.065 | **nd** | na | **na** | na | **na** | na | **na** |

**Notes:**

Indicates a reach-specific median BAF
Indicates an assessment area median BAF
Indicates a sitewide median BAF

***Bolded italicized*** sample locations were added to the dataset as part of the September 2016 BERA.
Red font indicates value is the reporting limit.
[1] Soil concentrations were measured in Aroclors and tissues concentrations were measured in homologs.
[2] Soil concentration for the BSA is the Kaplan-Meier mean and includes non-detected concentrations.
[3] Non-parametric confidence limits calculated using methods from Conover (1980). Minimum of nine samples required for calculation.
BSA: biological sampling area
ID: identification
mg/kg: milligrams per kilogram
NA: Average BAF not available because samples not collected or PCBs not detected within BSA.
na: no sample aquired in specified area
nd: ratio not calculated because PCBs not detected in sediment or tissue
PCB: polychlorinated biphenyl
* Median BAF for each BSA is based on the tissue concentration for a sampling location divided by the Kaplan-Meier mean for sediment in the BSA.

**Table B-16. Soil and Terrestrial Biota Mercury Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | BSA | Soil ID | Mercury Results (mg/kg dry weight)[1] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | Terrestrial Plants | Terrestrial Plants BAFs | Worm | Worm BAFs | Terrestrial Insects | Terrestrial Insects BAFs | Small Mammals | Small Mammals BAFs |
| Upper | EUT-01-FF | EUT-01-09 | 0.051 | 0.026 | **nd** | 0.143 | **2.801** | 0.024 | **nd** | 0.019 | **nd** |
| | | EUT-01-10 | 0.069 | 0.052 | **nd** | 0.143 | **2.801** | na | **NA** | 0.027 | **0.533** |
| | | EUT-01-C2N-18 | 0.033 | na | **NA** | 0.110 | **2.155** | na | **NA** | na | **NA** |
| | | **EUT-01-FF Median*** | **0.051** | | **NA** | | **2.80** | | **NA** | | **0.53** |
| | EUT-02-FF | EUT-02-11 | 0.070 | 0.050 | **nd** | na | **NA** | na | **NA** | 0.018 | **nd** |
| | | EUT-02-12 | 0.097 | 0.061 | **nd** | na | **NA** | na | **NA** | 0.020 | **nd** |
| | | EUT-02-C2N-22 | 0.082 | | | | | | | | |
| | | EUT-02-C2N-26 | 0.043 | | | | | | | | |
| | | **EUT-02-FF Median*** | **0.073** | | **NA** | | **NA** | | **NA** | | **NA** |
| | EUT-03-SF | EUT-03-13 | 0.068 | 0.018 | **nd** | na | **NA** | na | **NA** | 0.019 | **nd** |
| | | EUT-03-13_1 | 0.079 | 0.014 | **nd** | na | **NA** | na | **NA** | 0.019 | **nd** |
| | | EUT-03-14 | 0.085 | na | **NA** | na | **NA** | na | **NA** | na | **NA** |
| | | EUT-03-C2N-21 | 0.079 | | | | | | | | |
| | | **EUT-03-SF Median*** | **0.079** | | **NA** | | **NA** | | **NA** | | **NA** |
| | | **Reach C2 (Median)** | | | **NA** | | **2.801** | | **NA** | | **0.533** |
| | EUT-04-MF | EUT-04-07 | 2.000 | 0.025 | **nd** | na | **NA** | na | **NA** | 0.019 | **nd** |
| | | EUT-04-08 | 2.400 | 0.022 | **nd** | na | **NA** | na | **NA** | 0.020 | **0.009** |
| | | **EUT-04-MF Median*** | **2.200** | | **NA** | | **NA** | | **NA** | | **0.01** |
| | EUT-05-MF | EUT-05-05 | 2.200 | 0.018 | **nd** | na | **NA** | na | **NA** | na | **NA** |
| | | EUT-05-06 | 1.700 | 0.031 | **nd** | na | **NA** | na | **NA** | na | **NA** |
| | | EUT-05-C3N-08 | 4.600 | | | | | | | | |
| | | EUT-05-C3N-09 | 0.950 | | | | | | | | |
| | | EUT-05-C3N-10 | 2.100 | | | | | | | | |
| | | EUT-05-C3NF-05 | 3.700 | | | | | | | | |
| | | EUT-05-C3NF-07 | 0.800 | | | | | | | | |
| | | EUT-05-C3NF-08 | 2.400 | | | | | | | | |
| | | EUT-05-C3NF-10 | 3.300 | | | | | | | | |
| | | EUT-05-C3NF-11 | 3.700 | | | | | | | | |
| | | **EUT-05-MF Median*** | **2.545** | | **NA** | | **NA** | | **NA** | | **NA** |
| | EUT-06-MF | EUT-06-03 | 2.000 | 0.028 | **nd** | 3.815 | **2.008** | 0.032 | **0.017** | 0.017 | **nd** |
| | | EUT-06-04 | 1.600 | 0.013 | **nd** | 4.405 | **2.319** | 0.035 | **0.018** | 0.021 | **nd** |
| | | EUT-06-C3N-14 | 2.100 | na | **NA** | 5.091 | **2.679** | 0.038 | **0.020** | na | **NA** |
| | | **EUT-06-MF Median*** | **1.900** | | **NA** | | **2.32** | | **0.02** | | **NA** |
| | EUT-07-SF | EUT-07-01 | 0.290 | 0.019 | **nd** | na | **NA** | na | **NA** | 0.053 | **0.041** |
| | | EUT-07-02 | 2.600 | 0.043 | **nd** | na | **NA** | na | **NA** | 0.091 | **0.070** |
| | | EUT-07-C3NF-17 | 1.000 | | | | | | | | |
| | | **EUT-07-SF Median*** | **1.297** | | **NA** | | **NA** | | **NA** | | **0.06** |

**Table B-16. Soil and Terrestrial Biota Mercury Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | BSA | Soil ID | Mercury Results (mg/kg dry weight)[1] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | Terrestrial Plants | Terrestrial Plants BAFs | Worm | Worm BAFs | Terrestrial Insects | Terrestrial Insects BAFs | Small Mammals | Small Mammals BAFs |
| Upper | | **Reach C3 (Median)** | | | **NA** | | **2.319** | | **0.018** | | **0.041** |
| | EUT-08-SF | EUT-08-49 | 3.300 | 0.011 | **nd** | 7.362 | **1.444** | 0.025 | **nd** | 0.030 | **0.006** |
| | | EUT-08-50 | 6.900 | 0.024 | **nd** | 5.628 | **1.103** | 0.021 | **0.004** | 0.041 | **0.008** |
| | | | na | na | **NA** | 7.116 | **1.395** | 0.018 | **nd** | na | **NA** |
| | | **EUT-08-SF Median*** | **5.100** | | **NA** | | **1.40** | | **0.00** | | **0.01** |
| | EUT-09-FF | EUT-09-51 | 1.200 | 0.024 | **nd** | na | **NA** | na | **NA** | 0.069 | **0.008** |
| | | EUT-09-51_1 | 0.670 | 0.053 | **nd** | na | **NA** | na | **NA** | 0.091 | **0.011** |
| | | EUT-09-C4S-04 | 16.300 | | | | | | | | |
| | | EUT-09-C-FP03-S4 | 2.200 | | | | | | | | |
| | | **EUT-09-FF Median*** | **8.618** | | **NA** | | **NA** | | **NA** | | **0.01** |
| | | **Reach C4 (Median)** | | | **NA** | | **1.395** | | **0.004** | | **0.008** |
| | | **Upper (Median)** | | | **AA ND** | | **2.15** | | **0.02** | | **0.01** |
| | | **95% Confidence Limits 2** | | | NA | | (0.40 - 2.32) | | NA | | NA |
| Middle | EMT-01-SF | EMT-01-25 | 0.036 | 0.009 | **nd** | 0.529 | **16.522** | 0.019 | **nd** | 0.019 | **nd** |
| | | EMT-01-26 | 0.017 | 0.022 | **nd** | 0.601 | **18.772** | 0.020 | **nd** | 0.019 | **nd** |
| | | | na | na | **NA** | 0.718 | **22.436** | 0.018 | **nd** | na | **NA** |
| | | EMT-01-C5N-19 | 0.043 | | | | | | | | |
| | | **EMT-01-SF Median*** | **0.032** | | **NA** | | **18.77** | | **NA** | | **NA** |
| | EMT-02-MF | EMT-02-17 | 0.670 | 0.030 | **nd** | na | **NA** | na | **NA** | na | **NA** |
| | | EMT-02-17_1 | 0.700 | 0.021 | **nd** | na | **NA** | na | **NA** | na | **NA** |
| | | EMT-02-18 | 0.430 | na | **NA** | na | **NA** | na | **NA** | na | **NA** |
| | | EMT-02-C5N-24 | 0.670 | | | | | | | | |
| | | **EMT-02-MF Median*** | **0.595** | | **NA** | | **NA** | | **NA** | | **NA** |
| | EMT-03-MF | EMT-03-15 | 0.021 | 0.032 | **nd** | na | **NA** | na | **NA** | 0.013 | **nd** |
| | | EMT-03-16 | 0.039 | 0.022 | **nd** | na | **NA** | na | **NA** | na | **NA** |
| | | EMT-03-C5N-26 | 0.078 | | | | | | | | |
| | | EMT-03-C5N-27 | 0.031 | | | | | | | | |
| | | **EMT-03-MF Median*** | **0.042** | | **NA** | | **NA** | | **NA** | | **NA** |
| | EMT-04-MF | EMT-04-19 | 0.440 | 0.063 | **nd** | 0.833 | **3.230** | 0.022 | **nd** | na | **NA** |
| | | EMT-04-20 | 0.240 | 0.022 | **nd** | 0.758 | **2.936** | 0.021 | **nd** | na | **NA** |
| | | EMT-04-C5N-29 | 0.270 | na | **NA** | 0.952 | **3.691** | 0.022 | **nd** | na | **NA** |
| | | EMT-04-C5NF-10 | 0.083 | | | | | | | | |
| | | **EMT-04-MF Median*** | **0.258** | | **NA** | | **3.23** | | **NA** | | **NA** |
| | EMT-05-FF | EMT-05-21 | 0.700 | 0.031 | **nd** | na | **NA** | na | **NA** | 0.022 | **0.012** |
| | | EMT-05-22 | 2.900 | 0.026 | **nd** | na | **NA** | na | **NA** | 0.069 | **0.038** |
| | | **EMT-05-FF Median*** | **1.800** | | **NA** | | **NA** | | **NA** | | **0.03** |

**Table B-16. Soil and Terrestrial Biota Mercury Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | BSA | Soil ID | Mercury Results (mg/kg dry weight)[1] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | Terrestrial Plants | Terrestrial Plants BAFs | Worm | Worm BAFs | Terrestrial Insects | Terrestrial Insects BAFs | Small Mammals | Small Mammals BAFs |
| Middle | EMT-06-SF | EMT-06-23 | 0.190 | 0.017 | **nd** | na | **NA** | na | **NA** | 0.019 | **nd** |
| | | EMT-06-24 | 0.100 | 0.021 | **nd** | na | **NA** | na | **NA** | 0.015 | **nd** |
| | | EMT-06-C5N-31 | 0.110 | | | | | | | | |
| | | **EMT-06-SF Median*** | **0.133** | | **NA** | | **NA** | | **NA** | | **NA** |
| | EMT-07-FF | EMT-07-27 | 0.250 | 0.065 | **nd** | na | **NA** | na | **NA** | 0.020 | **nd** |
| | | EMT-07-28 | 0.530 | 0.060 | **0.102** | na | **NA** | na | **NA** | 0.278 | **0.476** |
| | | EMT-07-C5S-34 | 0.790 | | | | | | | | |
| | | EMT-07-C5S-36 | 1.200 | | | | | | | | |
| | | EMT-07-C5S-37 | 0.150 | | | | | | | | |
| | | **EMT-07-FF Median*** | **0.584** | | **0.10** | | **NA** | | **NA** | | **0.48** |
| | EMT-08-FF | EMT-08-29 | 0.930 | 0.023 | **nd** | 4.395 | **4.330** | na | **NA** | 0.191 | **0.188** |
| | | EMT-08-30 | 1.100 | 0.024 | **0.041** | 0.707 | **0.696** | na | **NA** | 0.078 | **0.077** |
| | | | na | na | **NA** | 2.292 | **2.258** | na | **NA** | na | **NA** |
| | | **EMT-08-FF Median*** | **1.015** | | **0.04** | | **2.26** | | **NA** | | **0.13** |
| | EMT-09-SF | EMT-09-31 | 0.550 | 0.022 | **nd** | na | **NA** | na | **NA** | na | **NA** |
| | | EMT-09-32 | 0.260 | 0.031 | **nd** | na | **NA** | na | **NA** | na | **NA** |
| | | EMT-09-C5S-44 | 0.085 | | | | | | | | |
| | | EMT-09-C5S-45 | 0.190 | | | | | | | | |
| | | **EMT-09-SF Median*** | **0.271** | | **NA** | | **NA** | | **NA** | | **NA** |
| | | **Reach C5 (Median)** | | | **0.07** | | **3.69** | | **NA** | | **0.08** |
| | | **Middle (Median)** | | | **0.07** | | **3.69** | | **AA ND** | | **0.08** |
| | | **95% Confidence Limits 2** | | | NA | | (2.26 - 4.33) | | NA | | NA |
| Lower | ELT-01-SF | ELT-01-39 | 0.110 | 0.012 | **nd** | na | **NA** | na | **NA** | 0.016 | **nd** |
| | | ELT-01-39_1 | 0.100 | 0.023 | **nd** | na | **NA** | na | **NA** | 0.017 | **nd** |
| | | ELT-01-40 | 0.058 | na | **NA** | na | **NA** | na | **NA** | na | **NA** |
| | | **ELT-01-SF Median*** | **0.082** | | **NA** | | **NA** | | **NA** | | **NA** |
| | ELT-02-SF | ELT-02-37 | 0.089 | 0.012 | **nd** | 0.140 | **1.584** | 0.028 | **nd** | 0.017 | **nd** |
| | | ELT-02-38 | 0.088 | 0.020 | **nd** | 0.233 | **2.634** | 0.029 | **nd** | 0.023 | **nd** |
| | | | | na | **NA** | 0.661 | **7.464** | 0.023 | **nd** | na | **NA** |
| | | **ELT-02-SF Median*** | **0.089** | | **NA** | | **2.63** | | **NA** | | **NA** |
| | ELT-03-MF | ELT-03-41 | 0.087 | 0.030 | **nd** | na | **NA** | na | **NA** | 0.017 | **nd** |
| | | ELT-03-42 | 0.082 | 0.027 | **nd** | na | **NA** | na | **NA** | 0.018 | **nd** |
| | | **ELT-03-MF Median*** | **0.085** | | **NA** | | **NA** | | **NA** | | **NA** |
| | ELT-04-SF | ELT-04-43 | 0.043 | 0.024 | **nd** | na | **NA** | na | **NA** | 0.018 | **nd** |
| | | ELT-04-44 | 0.150 | 0.051 | **nd** | na | **NA** | na | **NA** | na | **NA** |
| | | **ELT-04-SF Median*** | **0.097** | | **NA** | | **NA** | | **NA** | | **NA** |
| | ELT-05-FF | ELT-05-45 | 1.100 | 0.030 | **nd** | na | **NA** | na | **NA** | 0.050 | **0.032** |
| | | ELT-05-46 | 2.000 | 0.042 | **nd** | na | **NA** | na | **NA** | 0.750 | **0.484** |
| | | **ELT-05-FF Median*** | **1.550** | | **NA** | | **NA** | | **NA** | | **0.26** |

**Table B-16. Soil and Terrestrial Biota Mercury Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | BSA | Soil ID | Mercury Results (mg/kg dry weight)[1] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | Terrestrial Plants | Terrestrial Plants BAFs | Worm | Worm BAFs | Terrestrial Insects | Terrestrial Insects BAFs | Small Mammals | Small Mammals BAFs |
| Lower | ELT-06-FF | ELT-06-47 | 1.200 | 0.059 | **nd** | 1.316 | **1.357** | 0.063 | **0.065** | 0.134 | **0.139** |
| | | ELT-06-48 | 0.740 | 0.058 | **nd** | 3.712 | **3.827** | na | **NA** | 0.213 | **0.219** |
| | | | na | na | **NA** | 1.755 | **1.809** | na | **NA** | na | **NA** |
| | | **ELT-06-FF Median*** | **0.970** | | **NA** | | **1.81** | | **0.07** | | **0.18** |
| | ELT-07-FF | ELT-07-54 | 8.400 | 0.044 | **nd** | na | **NA** | na | **NA** | 0.063 | **0.008** |
| | | ELT-07-55 | 7.600 | 0.051 | **nd** | na | **NA** | na | **NA** | 0.020 | **nd** |
| | | **ELT-07-FF Median*** | **8.000** | | **NA** | | **NA** | | **NA** | | **0.01** |
| | ELT-08-MF | ELT-08-33 | 0.170 | 0.026 | **nd** | 2.202 | **11.591** | 0.024 | **nd** | 0.017 | **nd** |
| | | ELT-08-34 | 0.210 | 0.026 | **nd** | 0.848 | **4.463** | 0.023 | **nd** | 0.016 | **nd** |
| | | | | na | **NA** | 3.357 | **17.667** | 0.022 | **nd** | na | **NA** |
| | | **ELT-08-MF Median*** | **0.190** | | **NA** | | **11.59** | | **NA** | | **NA** |
| | ELT-09-MF | ELT-09-35 | 0.150 | 0.024 | **nd** | na | **NA** | na | **NA** | 0.018 | **nd** |
| | | ELT-09-36 | 0.160 | 0.027 | **nd** | na | **NA** | na | **NA** | 0.016 | **nd** |
| | | **ELT-09-MF Median*** | **0.155** | | **NA** | | **NA** | | **NA** | | **NA** |
| | | **Reach C7 (Median)** | | | **NA** | | **3.83** | | **0.07** | | **0.14** |
| | | **Lower (Median)** | | | **AA ND** | | **3.83** | | **0.07** | | **0.14** |
| | | **95% Confidence Limits 2** | | | NA | | (1.58 - 4.46) | | NA | | NA |
| | | **Sitewide (Median)** | | | **0.07** | | **2.80** | | **0.02** | | **0.04** |
| | | **95% Confidence Limits 2** | | | NA | | (2.15 - 3.23) | | NA | | (0.009 - 0.077) |
| Reference | ERT-01-MF | ERT-01-52 | 0.030 | 0.017 | **nd** | na | **NA** | na | **NA** | 0.018 | **nd** |
| | | ERT-01-63 | 0.038 | 0.024 | **nd** | na | **NA** | na | **NA** | na | **NA** |
| | ERT-01-SF | ERT-01-52 | 0.030 | 0.015 | **nd** | 0.230 | **7.080** | 0.017 | **nd** | 0.018 | **nd** |
| | | ERT-01-53 | 0.030 | 0.028 | **nd** | 0.323 | **9.946** | 0.021 | **nd** | 0.021 | **0.654** |
| | | | na | na | **NA** | 0.301 | **9.274** | 0.021 | **nd** | na | **NA** |
| | ERT-02-MF | ERT-02-56 | 0.027 | 0.032 | **nd** | 0.219 | **7.298** | 0.021 | **nd** | 0.016 | **nd** |
| | | ERT-02-56_1 | 0.021 | 0.030 | **nd** | 0.311 | **10.383** | 0.023 | **nd** | 0.016 | **nd** |
| | | ERT-02-57 | 0.027 | na | **NA** | 0.280 | **9.340** | 0.019 | **nd** | na | **NA** |
| | ERT-02-FF | ERT-02-60 | 0.025 | 0.047 | **1.578** | na | **NA** | na | **NA** | 0.022 | **nd** |
| | | ERT-02-61 | 0.044 | 0.045 | **1.511** | na | **NA** | na | **NA** | 0.017 | **nd** |
| | ERT-02-SF | ERT-02-58 | 0.025 | 0.019 | **nd** | na | **NA** | na | **NA** | 0.041 | **1.354** |
| | | ERT-02-59 | 0.035 | 0.013 | **nd** | na | **NA** | na | **NA** | 0.018 | **nd** |
| | ERT-03-FF | ERT-03-64 | 0.042 | 0.082 | **nd** | 0.502 | **7.074** | na | **NA** | 0.017 | **nd** |
| | | ERT-03-65 | 0.075 | 0.066 | **nd** | 0.383 | **5.394** | na | **NA** | na | **NA** |
| | | | na | na | **NA** | 0.533 | **7.504** | na | **NA** | na | **NA** |
| | ERT-03-SF | ERT-03-66 | 0.057 | 0.018 | **nd** | na | **NA** | na | **NA** | na | **NA** |
| | | ERT-03-67 | 0.110 | 0.026 | **nd** | na | **NA** | na | **NA** | na | **NA** |

**Table B-16. Soil and Terrestrial Biota Mercury Data and Median BAF Calculations**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**

| | |
|---|---|
| | Indicates a reach-specific median BAF |
| | Indicates an assessment area median BAF |
| | Indicates a sitewide median BAF |

Red text indicates value is the reporting limit.

[1] Soil concentration for the BSA is the Kaplan-Meier mean and includes non-detected concentrations.

[2] Non-parametric confidence limits calculated using methods from Conover (1980). Minimum of nine samples required for calculation. See text for details.

BSA: biological sampling area
ID: identification
mg/kg: milligrams per kilogram
NA: Average BAF not available because samples not collected or PCBs not detected within BSA
na: no sample aquired in specified area
nd: ratio not calculated because PCBs not detected in sediment or tissue
PCB: polychlorinated biphenyl
* Median BAF for each BSA is based on the tissue concentration for a sampling location divided by the Kaplan-Meier mean for soil in the BSA.

**Table B-17. Terrestrial Biota Tissue Percent Solids Summary**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | BSA | Percent Solids | | | |
|---|---|---|---|---|---|
| | | Terrestrial Plants | Worm | Terrestrial Insects | Small Mammals [1] |
| Upper | EUT-01-FF | 27.1 | 35.0 | na | 32.0 |
| | | 13.7 | 28.7 | na | 32.0 |
| | | na | 18.2 | na | na |
| | EUT-02-FF | 13.0 | na | na | 32.0 |
| | | 12.2 | na | na | 32.0 |
| | EUT-03-SF | 36.4 | na | na | 32.0 |
| | | 52.9 | na | na | 32.0 |
| | | na | na | na | na |
| | EUT-04-MF | 29.2 | na | na | 32.0 |
| | | 31.0 | na | na | 32.0 |
| | EUT-05-MF | 40.4 | na | na | na |
| | | 23.2 | na | na | na |
| | EUT-06-MF | 25.0 | 24.9 | 31.0 | 32.0 |
| | | 51.5 | 22.7 | 31.4 | 32.0 |
| | | na | 27.5 | 29.2 | na |
| | EUT-07-SF | 36.4 | na | na | 32.0 |
| | | 15.6 | na | na | 32.0 |
| | EUT-08-SF | 63.1 | 32.6 | 28.6 | 32.0 |
| | | 29.7 | 23.1 | 32.3 | 32.0 |
| | | na | 26.7 | 38.0 | na |
| | EUT-09-FF | 29.6 | na | na | 32.0 |
| | | 12.8 | na | na | 32.0 |
| Middle | EMT-01-SF | 72.7 | 66.2 | 33.6 | 32.0 |
| | | 31.7 | 56.6 | 32.0 | 32.0 |
| | | na | 58.5 | 37.8 | na |
| | EMT-02-MF | 23.6 | na | na | na |
| | | 31.4 | na | na | na |
| | | na | na | na | na |
| | EMT-03-MF | 21.9 | na | na | 32.0 |
| | | 29.3 | na | na | na |
| | EMT-04-MF | 10.8 | 25.2 | 29.5 | na |
| | | 30.5 | 26.4 | 31.3 | na |
| | | na | 23.1 | 30.7 | na |
| | EMT-05-FF | 22.8 | na | na | 32.0 |
| | | 25.5 | na | na | 32.0 |
| | EMT-06-SF | 41.4 | na | na | 32.0 |
| | | 34.3 | na | na | 32.0 |
| | EMT-07-FF | 11.2 | na | na | 32.0 |
| | | 25.1 | na | na | 32.0 |
| | EMT-08-FF | 31.1 | 22.3 | na | 32.0 |
| | | 46.2 | 28.3 | na | 32.0 |
| | | na | 24.0 | na | na |
| | EMT-09-SF | 32.5 | na | na | na |
| | | 23.8 | na | na | na |

**Table B-17. Terrestrial Biota Tissue Percent Solids Summary**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | BSA | Percent Solids | | | |
|---|---|---|---|---|---|
| | | Terrestrial Plants | Worm | Terrestrial Insects | Small Mammals [1] |
| Lower | ELT-01-SF | 61.6 | na | na | 32.0 |
| | | 31.1 | na | na | 32.0 |
| | | na | na | na | na |
| | ELT-02-SF | 60.8 | 21.4 | 27.1 | 32.0 |
| | | 34.8 | 26.6 | 26.2 | 32.0 |
| | | na | 43.9 | 30.9 | na |
| | ELT-03-MF | 24.3 | na | na | 32.0 |
| | | 25.4 | na | na | 32.0 |
| | ELT-04-SF | 30.0 | na | na | 32.0 |
| | | 14.2 | na | na | na |
| | ELT-05-FF | 22.8 | na | na | 32.0 |
| | | 16.3 | na | na | 32.0 |
| | ELT-06-FF | 12.2 | 29.6 | na | 32.0 |
| | | 13.5 | 29.6 | na | 32.0 |
| | | na | 29.6 | na | na |
| | ELT-07-FF | 14.7 | na | na | 32.0 |
| | | 12.7 | na | na | 32.0 |
| | ELT-08-MF | 25.3 | 33.6 | 30.0 | 32.0 |
| | | 28.6 | 28.3 | 31.3 | 32.0 |
| | | na | 28.6 | 29.2 | na |
| | ELT-09-MF | 27.1 | na | na | 32.0 |
| | | 28.3 | na | na | 32.0 |
| Reference | ERT-01-SF | 41.0 | na | na | 32.0 |
| | | 31.6 | na | na | na |
| | | 50.4 | 22.6 | 40.6 | 32.0 |
| | ERT-01-MF | 26.7 | 19.8 | 33.6 | 32.0 |
| | | na | 28.2 | 31.5 | na |
| | ERT-02-MF | 22.4 | 33.8 | 34.7 | 32.0 |
| | | 25.4 | 30.5 | 32.1 | 32.0 |
| | | na | 20.7 | 37.3 | na |
| | | na | na | na | na |
| | ERT-02-SF | 52.8 | na | na | 32.0 |
| | | 33.1 | na | na | 32.0 |
| | ERT-02-FF | 38.3 | na | na | 32.0 |
| | | 60.7 | na | na | 32.0 |
| | ERT-03-FF | 9.7 | 21.9 | na | 32.0 |
| | | 10.8 | 23.5 | na | na |
| | | na | 24.4 | na | na |
| | ERT-03-SF | 40.2 | na | na | na |
| | | 26.0 | na | na | na |

**Notes:**
[1]: Solids content not measured. Average value from 2011 OU-4 Bioaccumulation Factor Memo used.
BSA: biological sampling area
mg/kg: milligrams per kilogram
na: no sample acquired in specified area
PCB: polychlorinated biphenyl

**Table B-18. Regression Analysis of PCBs in Soil and Biotic Tissues - $r^2$ Values**
**Anniston PCB Site, Anniston, Alabama**

| Tissue Type | Measure | Soil Measurement | | |
|---|---|---|---|---|
| | | Aroclor - dw | Homolog - dw | Aroclor TOC Normal - dw |
| Small Mammals | dw | 0.063 | 0.10 | 0.077 |
| | ww | 0.063 | 0.10 | 0.077 |
| | Lipid Normal - ww | 0.005 | 0.07 | 0.014 |
| Small Mammals (Non-Shrew) | dw | **0.62 *** | 0.004 | **0.59 *** |
| | ww | **0.62 *** | 0.00 | **0.59 *** |
| | Lipid Normal - ww | **0.32 *** | 0.06 | **0.29 *** |
| Small Mammals (Mice) | dw | **0.68 (0.001)** | 0.01 | **0.66 *** |
| | ww | **0.68 (0.001)** | 0.01 | **0.66 *** |
| | Lipid Normal - ww | **0.35 *** | 0.22 | **0.32 *** |
| Soil Invertebrates | dw | **0.85 (0.008)** | **--** | **0.88 (0.006)** |
| | ww | **0.84 *** | **--** | **0.86 *** |
| | Lipid Normal - ww | **0.87 *** | **--** | **0.88 *** |
| Terrestrial Insects ** | dw | NA | -- | NA |
| | ww | NA | -- | NA |
| | Lipid Normal - ww | NA | -- | NA |
| Terrestrial Plants ** | dw | **1.00** | **1.00** | **1.00** |
| | ww | **1.00** | **1.00** | **1.00** |
| | Lipid Normal - ww | **1.00** | **1.00** | **1.00** |

**Notes:**

Red values indicate that regression showed a negative correlation.

**Bold** indicates $r^2$ value ≥ 0.3.

Highlighted cells indicate an $r^2$ value > 0.3 and a p value < 0.1.

(p values in parenthesis) - p value of 0.1 indicates statistical significance at a probability of 90%

p values calculated only for positive correlations with $r^2$ > 0.3 and highest r2 value in the dataset.

$r^2$ indicates the amount of the variability in the y parameter that can be accounted for by the x parameter.

p-value is the statistical significance. A p-value of 0.1 indicates that there is 90% confidence in the $r^2$ value.

*p value not calculated because correlation pair with higher $r^2$ value evaluated instead.

** This dataset contains only two data points.

dw: dry weight

NA: not available; PCBs were not detected in terrestrial insect tissue

PCB: polychlorinated biphenyl

$r^2$ : the coefficient of determination

TOC: total organic carbon

ww: wet weight

-- : not available; not measured

**Table B-19. Correlation Analysis of log PCBs in Soil and Biotic Tissues - $r^2$ Values**
**Anniston PCB Site, Anniston, Alabama**

| Tissue Type | Measure | Soil Measurement | | |
|---|---|---|---|---|
| | | Aroclor - dw | Homolog - dw | Aroclor TOC Normal - dw |
| Small Mammals | dw | **0.48 (0.003)** | 0.027 | **0.54 *** |
| | ww | **0.48 (0.003)** | 0.027 | **0.54 *** |
| | Lipid Normal - ww | **0.39 *** | 0.021 | **0.46 *** |
| Small Mammals (Non-Shrew) | dw | **0.60 *** | 0.0000033 | **0.60 *** |
| | ww | **0.60 *** | 0.0000033 | **0.60 *** |
| | Lipid Normal - ww | **0.53 *** | 0.0031 | **0.52 *** |
| Small Mammals (Mice) | dw | **0.89 (5E-6)** | 0.23 | **0.86 *** |
| | ww | **0.89 (5E-6)** | 0.23 | **0.86 *** |
| | Lipid Normal - ww | **0.76 *** | 0.24 | **0.72 *** |
| Soil Invertebrates | dw | **0.60 *** | -- | **0.75 *** |
| | ww | **0.57 *** | -- | **0.72 *** |
| | Lipid Normal - ww | **0.67 (0.04)** | -- | **0.80 (0.01)** |
| Terrestrial Insects | dw | NA | -- | NA |
| | ww | NA | -- | NA |
| | Lipid Normal - ww | NA | -- | NA |
| Terrestrial Plants ** | dw | **1.00** | **1.00** | **1.00** |
| | ww | **1.00** | **1.00** | **1.00** |
| | Lipid Normal - ww | **1.00** | **1.00** | **1.00** |

**Notes:**

Red values indicate that regression showed a negative correlation.

**Bold** indicates $r^2$ value ≥ 0.3.

Highlighted cells indicate an $r^2$ value > 0.3 and a p value < 0.1.

(p values in parenthesis) - p value of 0.1 indicates statistical significance at a probability of 90%

p values calculated only for positive correlations with $r^2$ > 0.3 and highest r2 value in the dataset.

$r^2$ indicates the amount of the variability in the y parameter that can be accounted for by the x parameter.

p-value is the statistical significance. A p-value of 0.1 indicates that there is 90% confidence in the $r^2$ value.

*p value not calculated because correlation pair with higher $r^2$ value evaluated instead.

** This dataset contains only two data points.

dw: dry weight

NA: not available; PCBs were not detected in terrestrial insect tissue

PCB: polychlorinated biphenyl

$r^{2:}$ the coefficient of determination

TOC: total organic carbon

ww: wet weight

--: not available; not measured

**Table B-20. Regression Analysis of Mercury in Soil and Biotic Tissues - $r^2$ Values**
**Anniston PCB Site, Anniston, Alabama**

| Tissue Type | Measure | Mercury - dw | |
|---|---|---|---|
| | | Mercury - dw | Mercury TOC Normal - dw |
| Small Mammals | dw | 0.05 | 0.07 |
| | ww | 0.05 | 0.07 |
| | Lipid Normal - ww | 0.07 | 0.05 |
| Small Mammals (Non-Shrew) | dw | 0.000 | 0.09 |
| | ww | 0.000 | 0.09 |
| | Lipid Normal - ww | 0.003 | 0.06 |
| Small Mammals (Mice) | dw | 0.0011 | 0.0004 |
| | ww | 0.0011 | 0.0004 |
| | Lipid Normal - ww | 0.0000 | 0.04 |
| Soil Invertebrates | dw | **0.89 (0.0001)** | **0.87 *** |
| | ww | **0.89 *** | **0.88 *** |
| | Lipid Normal - ww | **0.81 *** | **0.79 *** |
| Terrestrial Insects | dw | **0.77** | **0.79** |
| | ww | **0.76** | **0.78** |
| | Lipid Normal - ww | **1.00** | **1.00** |
| Terrestrial Plants | dw | **0.32** | 0.10 |
| | ww | **1.00** | **0.37** |
| | Lipid Normal - ww | 0.02 | **0.50** |

**Notes:**
Red values indicate that regression showed a negative correlation.
**Bold** indicates $r^2$ value ≥ 0.3.
Highlighted cells indicate an $r^2$ value > 0.3 and a p value < 0.1.
(p values in parenthesis) - p value of 0.1 indicates statistical significance at a probability of 90%
p values calculated only for positive correlations with $r^2$ > 0.3 and highest r2 value in the dataset.
$r^2$ indicates the amount of the variability in the y parameter that can be accounted for by the x parameter.
p-value is the statistical significance. A p-value of 0.1 indicates that there is 90% confidence in the $r^2$ value.
*p value not calculated because correlation pair with higher $r^2$ value evaluated instead.
dw: dry weight
$r^{2:}$ the coefficient of determination
PCB: polychlorinated biphenyl
TOC: total organic carbon
ww: wet weight

**Table B-21. Regression Analysis of log Mercury in Soil and Biotic Tissues - $r^2$ Values**
**Anniston PCB Site, Anniston, Alabama**

| Tissue Type | Measure | Soil Measurement | |
|---|---|---|---|
| | | Mercury - dw | Mercury TOC Normal - dw |
| Small Mammals | dw | 0.0117 | 0.006 |
| | ww | 0.0117 | 0.006 |
| | Lipid Normal - ww | 0.0002 | 0.000 |
| Small Mammals (Non-Shrew) | dw | 0.045 | 0.000 |
| | ww | 0.045 | 0.000 |
| | Lipid Normal - ww | 0.004 | 0.01 |
| Small Mammals (Mice) | dw | 0.26 | 0.21 |
| | ww | 0.26 | 0.21 |
| | Lipid Normal - ww | 0.17 | 0.17 |
| Soil Invertebrates | dw | **0.83 (0.002)** | **0.85 (0.0004)** |
| | ww | **0.71 *** | **0.78 *** |
| | Lipid Normal - ww | **0.58 *** | **0.65 *** |
| Terrestrial Insects | dw | **0.99** | **1.00** |
| | ww | **0.98** | **0.99** |
| | Lipid Normal - ww | **1.00** | **1.00** |
| Terrestrial Plants | dw | 0.21 | 0.01 |
| | ww | **0.88** | **0.57** |
| | Lipid Normal - ww | 0.000 | 0.12 |

**Notes:**

Red values indicate that regression showed a negative correlation.

**Bold** indicates $r^2$ value ≥ 0.3.

Highlighted cells indicate an $r^2$ value > 0.3 and a p value < 0.1.

(p values in parenthesis) - p value of 0.1 indicates statistical significance at a probability of 90%

p values calculated only for positive correlations with $r^2$ > 0.3 and highest r2 value in the dataset.

$r^2$ indicates the amount of the variability in the y parameter that can be accounted for by the x parameter.

p-value is the statistical significance. A p-value of 0.1 indicates that there is 90% confidence in the $r^2$ value.

*p value not calculated because correlation pair with higher $r^2$ value evaluated instead.

dw: dry weight

$r^2$ : the coefficient of determination

PCB: polychlorinated biphenyl

TOC: total organic carbon

ww: wet weight

**Table B-22. Sediment and Aquatic Biota Tissue for Metals Data and BAF Calculation**
**Anniston PCB Site, Anniston, Alabama**

| BSA | Barium Measured Concentrations (mg/kg) (dw) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sediment | Aquatic Plants | | Emergent Insects | | Benthic Invertebrates | | Crayfish | | Mollusc | | Snake | | Frog | | Forage Fish | | Bottom Fish | | Predator Fish | | All Fish | |
| | | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF |
| EUA-01 | na | na | na | na | na | na | na | na | na | 34 | na | na | na | 43.7 | na | 9.02 | na | na | na | na | na | -- | -- |
| EUA-01 | na | | | | | | | | | | | | | 44.0 | na | 8.11 | na | | | | | -- | -- |
| EUA-01 | na | | | | | | | | | | | | | | | 12.4 | na | | | | | -- | -- |
| EUA-02 | 82.9 | 70.1 | 0.85 | 4.42 | 0.05 | 60.0 | 0.72 | 162 | 1.95 | na | na | na | na | na | na | na | na | 10.0 | 0.12 | na | na | -- | -- |
| EUA-03 | 35.1 | na | na | na | na | na | na | 199.27 | 5.68 | na | na | na | na | na | na | 33.0 | 0.94 | na | na | na | na | -- | -- |
| EMA-01 | 28.6 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | -- | -- |
| EMA-02 | na | na | na | 11.3 | na | na | na | na | na | na | na | na | na | na | na | na | na | 2.03 | na | 3.39 | na | -- | -- |
| EMA-03 | 33.9 | 50.0 | 1.47 | na | na | 37.3 | 1.10 | na | na | 27.1 | 0.80 | na | na | na | na | na | na | na | na | na | na | -- | -- |
| ELA-01 | 16.6 | 66.2 | 3.98 | na | na | na | na | 107.25 | 6.45 | na | na | na | na | na | na | 385 | nd | 32 | nd | 31 | nd | -- | -- |
| ELA-01 | 16.6 | | | | | | | | | | | | | | | 379 | nd | | | | | | |
| ELA-02 | 26.9 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | 9.61 | 0.36 | 6.29 | 0.23 | -- | -- |
| ELA-03 | na | na | na | 5.14 | na | 37.3 | na | na | na | 33 | na | 9.91 | na | na | na | na | na | na | na | 15.3 | na | -- | -- |
| Paired Data Count | | | 3 | | 1 | | 2 | | 3 | | 1 | | 0 | | 0 | | 1 | | 2 | | 1 | | 4 |
| Upper Median | | | 0.85 | | 0.05 | | 0.72 | | 3.81 | | NA | | NA | | NA | | 0.94 | | 0.12 | | NA | | 0.53 |
| Middle Median | | | 1.47 | | NA | | 1.10 | | NA | | 0.80 | | NA | | NA | | NA | | NA | | NA | | NA |
| Lower Median | | | 3.98 | | NA | | NA | | 6.45 | | NA | | NA | | NA | | NA | | 0.36 | | 0.23 | | 0.30 |
| **Sitewide Median** | | | **1.47** | | **0.05** | | **0.91** | | **5.68** | | **0.80** | | **Median NA** | | **Median NA** | | **0.94** | | **0.24** | | **0.23** | | **0.30** |
| **Sitewide Average** | | | **1.66** | | **0.19** | | **1.20** | | **4.18** | | **0.85** | | **0.27** | | **1.17** | | **0.42** | | **0.19** | | **0.22** | | **0.32** |

| BSA | Chromium Measured Concentrations (mg/kg) (dw) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sediment | Aquatic Plants | | Emergent Insects | | Benthic Invertebrates | | Crayfish | | Mollusc | | Snake | | Frog | | Forage Fish | | Bottom Fish | | Predator Fish | | All Fish | |
| | | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF |
| EUA-01 | na | na | na | na | na | na | na | na | na | 9.27 | na | na | na | 7.14 | na | 4.89 | na | na | na | na | na | -- | -- |
| EUA-01 | na | | | | | | | | | | | | | 18.1 | na | 3.59 | na | | | | | -- | -- |
| EUA-01 | na | | | | | | | | | | | | | | | 1.33 | na | | | | | -- | -- |
| EUA-02 | 16.9 | 2.57 | 0.15 | 14 | nd | 3.33 | 0.20 | 16 | nd | na | na | na | na | na | na | na | na | 0.66 | 0.04 | na | na | -- | -- |
| EUA-03 | 18.1 | na | na | na | na | na | na | 1.39 | 0.08 | na | na | na | na | na | na | 11.1 | 0.61 | na | na | na | na | -- | -- |
| EMA-01 | 6.95 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | -- | -- |
| EMA-02 | na | na | na | 11.7 | na | na | na | na | na | na | na | na | na | na | na | na | na | 0.26 | na | 0.51 | na | -- | -- |
| EMA-03 | 7.60 | 3.13 | 0.41 | na | na | 3.87 | 0.51 | na | na | 9.65 | 1.27 | na | na | na | na | na | na | na | na | na | na | -- | -- |
| ELA-01 | 10.9 | 2.3 | nd | na | na | na | na | 14 | nd | na | na | na | na | na | na | 5.38 | 0.50 | 1.13 | nd | 1.90 | 0.17 | -- | -- |
| ELA-01 | 10.9 | | | | | | | | | | | | | | | 6.44 | 0.59 | | | | | -- | -- |
| ELA-02 | 8.50 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | 0.72 | 0.08 | 1.23 | 0.14 | -- | -- |
| ELA-03 | na | na | na | 13.4 | na | 3.23 | na | na | na | 13.4 | na | 18 | nd | na | na | na | na | na | na | 17 | nd | -- | -- |
| Paired Data Count | | | 2 | | 0 | | 2 | | 1 | | 1 | | 0 | | 0 | | 3 | | 2 | | 2 | | 0 |
| Upper Median | | | 0.15 | | NA | | 0.20 | | 0.08 | | NA | | NA | | NA | | 0.61 | | 0.04 | | NA | | 0.33 |
| Middle Median | | | 0.41 | | NA | | 0.51 | | NA | | 1.27 | | NA | | NA | | NA | | NA | | NA | | NA |
| Lower Median | | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.54 | | 0.08 | | 0.16 | | 0.17 |
| **Sitewide Median** | | | **0.28** | | **Median NA** | | **0.35** | | **0.08** | | **1.27** | | **Median NA** | | **Median NA** | | **0.59** | | **0.06** | | **0.16** | | **0.17** |
| **Sitewide Average** | | | **0.25** | | **1.10** | | **0.30** | | **0.12** | | **0.96** | | **Site ND** | | **1.11** | | **0.48** | | **0.05** | | **0.11** | | **0.28** |

| BSA | Cobalt Measured Concentrations (mg/kg) (dw) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sediment | Aquatic Plants | | Emergent Insects | | Benthic Invertebrates | | Crayfish | | Mollusc | | Snake | | Frog | | Forage Fish | | Bottom Fish | | Predator Fish | | All Fish | |
| | | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF |
| EUA-01 | na | na | na | na | na | na | na | na | na | 3.41 | na | na | na | 1.55 | na | 2.90 | nd | na | na | na | na | -- | -- |
| EUA-01 | na | | | | | | | | | | | | | 1.44 | na | 38 | nd | | | | | -- | -- |
| EUA-01 | na | | | | | | | | | | | | | | | 39 | nd | | | | | | |
| EUA-02 | 7.00 | 41.5 | nd | 34 | nd | 4.44 | 0.63 | 40 | nd | na | na | na | na | na | na | na | na | 2.50 | nd | na | na | -- | -- |
| EUA-03 | 4.10 | na | na | na | na | na | na | 36 | nd | na | na | na | na | na | na | 38 | nd | na | na | na | na | -- | -- |
| EMA-01 | 3.03 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | -- | -- |
| EMA-02 | na | na | na | 30.7 | nd | na | na | na | na | na | na | na | na | na | na | na | na | 0.03 | nd | 0.04 | nd | -- | -- |
| EMA-03 | 2.30 | 69.4 | nd | na | na | 4.27 | 1.86 | na | na | 3.88 | 1.69 | na | na | na | na | na | na | na | na | na | na | -- | -- |
| ELA-01 | 3.18 | 5.73 | nd | na | na | na | na | 36 | nd | na | na | na | na | na | na | 38 | nd | 3.40 | nd | 3.23 | nd | -- | -- |
| ELA-01 | 3.18 | | | | | | | | | | | | | | | 38 | nd | | | | | | |
| ELA-02 | 3.40 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | 0.30 | 0.09 | 0.20 | 0.06 | -- | -- |
| ELA-03 | na | na | na | 0.28 | na | 63.3 | na | na | na | 3.54 | na | 45 | nd | na | na | na | na | na | na | 0.45 | na | -- | -- |
| Paired Data Count | | | 0 | | 0 | | 2 | | 0 | | 1 | | 0 | | 0 | | 0 | | 1 | | 1 | | 2 |
| Upper Median | | | NA | | NA | | 0.63 | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA |
| Middle Median | | | NA | | NA | | 1.86 | | NA | | 1.69 | | NA | | NA | | NA | | NA | | NA | | NA |
| Lower Median | | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.09 | | 0.06 | | 0.07 |
| **Sitewide Median** | | | **Median NA** | | **Median NA** | | **1.24** | | **Median NA** | | **1.69** | | **Median NA** | | **Median NA** | | **Median NA** | | **0.09** | | **0.06** | | **0.07** |
| **Sitewide Average** | | | **Site ND** | | **0.07** | | **1.14** | | **Site ND** | | **0.95** | | **Site ND** | | **0.39** | | **Site ND** | | **0.08** | | **0.09** | | **0.08** |

**Table B-22. Sediment and Aquatic Biota Tissue for Metals Data and BAF Calculation**
**Anniston PCB Site, Anniston, Alabama**

| BSA | Lead Measured Concentrations (mg/kg) (dw) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sediment | Aquatic Plants | | Emergent Insects | | Benthic Invertebrates | | Crayfish | | Mollusc | | Snake | | Frog | | Forage Fish | | Bottom Fish | | Predator Fish | | All Fish | |
| | | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF |
| EUA-01 | na | na | na | na | na | na | na | na | na | 3.54 | na | na | na | 2.65 | na | 0.20 | na | na | na | na | na | -- | -- |
| EUA-01 | na | | | | | | | | | | | | | 4.12 | na | 7.5 | nd | | | | | -- | -- |
| EUA-01 | na | | | | | | | | | | | | | | | 7.7 | nd | | | | | | |
| EUA-02 | 13.9 | 7.05 | 0.51 | 0.29 | 0.02 | 6.00 | 0.43 | 1.80 | 0.13 | na | na | na | na | na | na | na | na | 0.38 | 0.03 | na | na | -- | -- |
| EUA-03 | 10.4 | na | na | na | na | na | na | 3.28 | 0.32 | na | na | na | na | na | na | 2.07 | 0.20 | na | na | na | na | -- | -- |
| EMA-01 | 6.98 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | -- | -- |
| EMA-02 | na | na | na | 0.67 | na | na | na | na | na | na | na | na | na | na | na | na | na | 0.26 | na | 0.10 | na | -- | -- |
| EMA-03 | 4.30 | 3.96 | 0.92 | na | na | 5.00 | 1.16 | na | na | 4.47 | 1.04 | na | na | na | na | na | na | na | na | na | na | -- | -- |
| ELA-01 | 8.13 | 1.78 | 0.22 | na | na | na | na | 0.94 | 0.12 | na | na | na | na | na | na | 0.18 | 0.02 | 0.64 | nd | 0.61 | nd | -- | -- |
| ELA-01 | 8.13 | | | | | | | | | | | | | | | 0.16 | 0.02 | | | | | -- | -- |
| ELA-02 | 8.40 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | 0.22 | 0.03 | 0.21 | 0.03 | -- | -- |
| ELA-03 | na | na | na | 0.45 | na | 3.61 | na | na | na | 3.66 | na | 0.77 | na | na | na | na | na | na | na | 8.26 | nd | -- | -- |
| Paired Data Count | | | 3 | | 1 | | 2 | | 3 | | 1 | | 0 | | 0 | | 3 | | 2 | | 1 | | 6 |
| Upper Median | | | 0.51 | | 0.02 | | 0.43 | | 0.22 | | NA | | NA | | NA | | 0.20 | | 0.03 | | NA | | 0.11 |
| Middle Median | | | 0.92 | | NA | | 1.16 | | NA | | 1.04 | | NA | | NA | | NA | | NA | | NA | | NA |
| Lower Median | | | 0.22 | | NA | | NA | | 0.12 | | NA | | NA | | NA | | 0.02 | | 0.03 | | 0.03 | | 0.03 |
| **Sitewide Median** | | | **0.51** | | **0.02** | | **0.80** | | **0.13** | | **1.04** | | **Median NA** | | **Median NA** | | **0.02** | | **0.03** | | **0.03** | | **0.03** |
| **Sitewide Average** | | | **0.50** | | **0.05** | | **0.57** | | **0.23** | | **0.46** | | **0.09** | | **0.39** | | **0.08** | | **0.03** | | **0.02** | | **0.05** |

| BSA | Vanadium Measured Concentrations (mg/kg) (dw) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sediment | Aquatic Plants | | Emergent Insects | | Benthic Invertebrates | | Crayfish | | Mollusc | | Snake | | Frog | | Forage Fish | | Bottom Fish | | Predator Fish | | All Fish | |
| | | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF | Result | BAF |
| EUA-01 | na | na | na | na | na | na | na | na | na | 1.83 | na | na | na | 1.01 | na | 1.24 | nd | na | na | na | na | -- | -- |
| EUA-01 | na | | | | | | | | | | | | | 1.62 | na | 15 | nd | | | | | -- | -- |
| EUA-01 | na | | | | | | | | | | | | | | | 15 | nd | | | | | | |
| EUA-02 | 17.2 | 1.49 | 0.09 | 14 | nd | 2.56 | 0.15 | 16 | nd | na | na | na | na | na | na | na | na | 0.94 | nd | na | na | -- | -- |
| EUA-03 | 7.40 | na | na | na | na | na | na | 1.39 | 0.19 | na | na | na | na | na | na | 1.19 | 0.16 | na | na | na | na | -- | -- |
| EMA-01 | 4.08 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | -- | -- |
| EMA-02 | na | na | na | 0.58 | na | na | na | na | na | na | na | na | na | na | na | na | na | 0.03 | nd | 0.04 | nd | -- | -- |
| EMA-03 | 3.40 | 1.94 | 0.57 | na | na | 2.47 | 0.73 | na | na | 1.88 | 0.55 | na | na | na | na | na | na | na | na | na | na | -- | -- |
| ELA-01 | 6.33 | 2.29 | na | na | na | na | na | 14 | nd | na | na | na | na | na | na | 15 | nd | 1.13 | na | 1.08 | nd | -- | -- |
| ELA-01 | 6.33 | | | | | | | | | | | | | | | 15 | nd | | | | | | |
| ELA-02 | 5.30 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | 0.26 | 0.05 | 0.15 | 0.03 | -- | -- |
| ELA-03 | na | na | na | 0.06 | nd | 2.22 | na | na | na | 1.46 | na | 18 | nd | na | na | na | na | na | na | 17 | nd | -- | -- |
| Paired Data Count | | | 2 | | 0 | | 2 | | 1 | | 1 | | 0 | | 0 | | 1 | | 1 | | 1 | | 0 |
| Upper Median | | | 0.09 | | NA | | 0.15 | | 0.19 | | NA | | NA | | NA | | 0.16 | | NA | | NA | | 0.16 |
| Middle Median | | | 0.57 | | NA | | 0.73 | | NA | | 0.55 | | NA | | NA | | NA | | NA | | NA | | NA |
| Lower Median | | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.05 | | 0.03 | | 0.04 |
| **Sitewide Median** | | | **0.33** | | **Median NA** | | **0.44** | | **0.19** | | **0.55** | | **Median NA** | | **Median NA** | | **0.16** | | **0.05** | | **0.03** | | **0.05** |
| **Sitewide Average** | | | **0.24** | | **0.08** | | **0.33** | | **0.19** | | **0.24** | | **Site ND** | | **0.18** | | **0.16** | | **0.04** | | **0.02** | | **0.07** |

**Notes:**
Red font indicates value is shown at the reporting limit.
BAF: bioaccumulation factor
BSA: biological sampling area
dw: dry weight
mg/kg: milligrams per kilogram
NA: not available
na: no sample aquired in specified area
nd: ratio not calculated because PCBs not detected in sediment or tissue

**Table B-23. Soil and Terrestrial Biota Tissue for Metals Data and BAF Calculation**
**Anniston PCB Site, Anniston, Alabama**

| BSA | Barium Measured Concentrations (mg/kg) (dw) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Soil | Small Mammals | | Earthworm | | Grasshopper | | Terrestrial Plants | |
| | | Result | BAF | Result | BAF | Result | BAF | Result | BAF |
| ELT-01 | 53.30 | na | na | na | na | na | na | na | na |
| ELT-02 | na | na | na | na | na | 8.86 | na | 44 | na |
| ELT-03 | na | na | na | na | na | na | na | 251 | na |
| ELT-06 | 70.60 | na | na | 57.77 | 0.82 | na | na | na | na |
| ELT-07 | na | 43.44 | na | na | na | na | na | na | na |
| ELT-08 | na | na | na | na | na | na | na | 41.61 | na |
| EMT-01 | na | na | na | 84.10 | na | na | na | na | na |
| EMT-02 | 62.30 | na | na | na | na | na | na | na | na |
| EMT-04 | na | na | na | 155.30 | na | na | na | na | na |
| EMT-05 | na | na | na | na | na | na | na | 1.36 | nd |
| EMT-06 | na | 13.13 | na | na | na | na | na | na | na |
| EMT-07 | 36.45 | na | na | na | na | na | na | na | na |
| EUT-01 | na | na | na | 228.92 | na | na | na | na | na |
| EUT-02 | na | 9.69 | na | na | na | na | na | na | na |
| EUT-03 | 132.50 | na | na | na | na | na | na | na | na |
| EUT-04 | na | na | na | na | na | na | na | 1.78 | na |
| EUT-05 | 117.00 | na | na | na | na | na | na | na | na |
| EUT-07 | na | 9.38 | na | na | na | na | na | 52.56 | na |
| EUT-08 | 83.00 | na | na | na | na | 3.25 | 0.04 | na | na |
| EUT-09 | 163.00 | na | na | na | na | na | na | na | na |
| Paired Data Count | | | 0 | | 1 | | 1 | | 0 |
| Upper Median | | | NA | | NA | | 0.0392 | | NA |
| Middle Median | | | NA | | NA | | NA | | NA |
| Lower Median | | | NA | | 0.82 | | NA | | NA |
| **Sitewide Median** | | | **Median NA** | | **0.82** | | **0.0392** | | **Median NA** |
| **Sitewide Average** | | | **0.21** | | **1.47** | | **0.07** | | **0.87** |

| BSA | Chromium Measured Concentrations (mg/kg) (dw) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Sediment | Small Mammals | | Earthworm | | Grasshopper | | Terrestrial Plants | |
| | | Result | BAF | Result | BAF | Result | BAF | Result | BAF |
| ELT-01 | 4.3 | na | na | na | na | na | na | na | na |
| ELT-02 | na | na | na | na | na | 7.38 | nd | 0.86 | na |
| ELT-03 | na | na | na | na | na | na | na | 0.47 | na |
| ELT-06 | 15.1 | na | na | 13.85 | 0.92 | na | na | na | na |
| ELT-07 | na | 4.06 | na | na | na | na | na | na | na |
| ELT-08 | na | na | na | na | na | na | na | 0.56 | na |
| EMT-01 | na | na | na | 19.43 | na | na | na | na | na |
| EMT-02 | 6.7 | na | na | na | na | na | na | na | na |
| EMT-04 | na | na | na | 10.23 | na | na | na | na | na |
| EMT-05 | na | na | na | na | na | na | na | 17.54 | nd |
| EMT-06 | na | 2.25 | na | na | na | na | na | na | na |
| EMT-07 | 12.35 | na | na | na | na | na | na | na | na |
| EUT-01 | na | na | na | 12.89 | na | na | na | na | na |
| EUT-02 | na | 4.69 | na | na | na | na | na | na | na |
| EUT-03 | 11.8 | na | na | na | na | na | na | na | na |
| EUT-04 | na | na | na | na | na | na | na | 2.40 | na |
| EUT-05 | na | na | na | na | na | na | na | na | na |
| EUT-07 | na | 2.13 | na | na | na | na | na | 0.64 | na |
| EUT-08 | 15.6 | na | na | na | na | 13.99 | nd | na | na |
| EUT-09 | na | na | na | na | na | na | na | na | na |
| Paired Data Count | | | 0 | | 1 | | 0 | | 0 |
| Upper Median | | | NA | | NA | | NA | | NA |
| Middle Median | | | NA | | NA | | NA | | NA |
| Lower Median | | | NA | | 0.92 | | NA | | NA |
| **Sitewide Median** | | | **Median NA** | | **0.92** | | **Median NA** | | **Median NA** |
| **Sitewide Average** | | | **0.29897494** | | **1.28** | | **Site ND** | | **0.09** |

**Table B-23. Soil and Terrestrial Biota Tissue for Metals Data and BAF Calculation**
**Anniston PCB Site, Anniston, Alabama**

| BSA | Cobalt Measured Concentrations (mg/kg) (dw) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Sediment | Small Mammals | | Earthworm | | Grasshopper | | Terrestrial Plants | |
| | | Result | BAF | Result | BAF | Result | BAF | Result | BAF |
| ELT-01 | 3.85 | na | na | na | na | na | na | na | na |
| ELT-02 | na | na | na | na | na | 36.9 | nd | 28.7 | nd |
| ELT-03 | na | na | na | na | na | na | na | 0.39 | na |
| ELT-06 | 6.3 | na | na | 5.41 | 0.86 | na | na | na | na |
| ELT-07 | na | 31.25 | nd | na | na | na | na | na | na |
| ELT-08 | na | na | na | na | na | na | na | 0.38 | na |
| EMT-01 | na | na | na | 4.42 | na | na | na | na | na |
| EMT-02 | 4.4 | na | na | na | na | na | na | na | na |
| EMT-04 | na | na | na | 5.68 | na | na | na | na | na |
| EMT-05 | na | na | na | na | na | na | na | 43.9 | nd |
| EMT-06 | na | 31.25 | nd | na | na | na | na | na | na |
| EMT-07 | 3.4 | na | na | na | na | na | na | na | na |
| EUT-01 | na | na | na | 5.57 | na | na | na | na | na |
| EUT-02 | na | 31.25 | nd | na | na | na | na | na | na |
| EUT-03 | 10.2 | na | na | na | na | na | na | na | na |
| EUT-04 | na | na | na | na | na | na | na | 0.038 | nd |
| EUT-05 | 8.5 | na | na | na | na | na | na | na | na |
| EUT-07 | na | 31.25 | nd | na | na | na | na | 0.071 | nd |
| EUT-08 | 6.5 | na | na | na | na | 35.0 | nd | na | na |
| EUT-09 | 11.6 | na | na | na | na | na | na | na | na |
| Paired Data Count | | | 0 | | 1 | | 0 | | 0 |
| Upper Median | | | NA | | NA | | NA | | NA |
| Middle Median | | | NA | | NA | | NA | | NA |
| Lower Median | | | NA | | 0.86 | | NA | | NA |
| **Sitewide Median** | | | **Median NA** | | **0.86** | | **Median NA** | | **Median NA** |
| **Sitewide Average** | | | **Site ND** | | **0.77** | | **Site ND** | | **0.057** |

| BSA | Lead Measured Concentrations (mg/kg) (dw) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Sediment | Small Mammals | | Earthworm | | Grasshopper | | Terrestrial Plants | |
| | | Result | BAF | Result | BAF | Result | BAF | Result | BAF |
| ELT-01 | 9.95 | na | na | na | na | na | na | na | na |
| ELT-02 | na | na | na | na | na | 7.38 | nd | 0.10 | na |
| ELT-03 | na | na | na | na | na | na | na | 7.87 | nd |
| ELT-06 | 24 | na | na | 15.88 | 0.66 | na | na | na | na |
| ELT-07 | na | 0.59 | na | na | na | na | na | na | na |
| ELT-08 | na | na | na | na | na | na | na | 6.99 | nd |
| EMT-01 | na | na | na | 115.72 | na | na | na | na | na |
| EMT-02 | 13 | na | na | na | na | na | na | na | na |
| EMT-04 | na | na | na | 16.67 | na | na | na | na | na |
| EMT-05 | na | na | na | na | na | na | na | 0.02 | nd |
| EMT-06 | na | 5.31 | na | na | na | na | na | na | na |
| EMT-07 | 25.6 | na | na | na | na | na | na | na | na |
| EUT-01 | na | na | na | 20.21 | na | na | na | na | na |
| EUT-02 | na | 6.25 | nd | na | na | na | na | na | na |
| EUT-03 | 39.75 | na | na | na | na | na | na | na | na |
| EUT-04 | na | na | na | na | na | na | na | 6.85 | nd |
| EUT-05 | 35.9 | na | na | na | na | na | na | na | na |
| EUT-07 | na | 3.75 | na | na | na | na | na | 12.82 | nd |
| EUT-08 | 29.7 | na | na | na | na | 0.24 | 0.01 | na | na |
| EUT-09 | 85.7 | na | na | na | na | na | na | na | na |
| Paired Data Count | | | 0 | | 1 | | 1 | | 0 |
| Upper Median | | | NA | | NA | | 0.01 | | NA |
| Middle Median | | | NA | | NA | | NA | | NA |
| Lower Median | | | NA | | 0.66 | | NA | | NA |
| **Sitewide Median** | | | **Median NA** | | **0.66** | | **0.01** | | **Median NA** |
| **Sitewide Average** | | | **0.09768589** | | **1.28** | | **0.01** | | **0.00** |

**Table B-23. Soil and Terrestrial Biota Tissue for Metals Data and BAF Calculation**
**Anniston PCB Site, Anniston, Alabama**

| BSA | Vanadium Measured Concentrations (mg/kg) (dw) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Sediment | Small Mammals | | Earthworm | | Grasshopper | | Terrestrial Plants | |
| | | Result | BAF | Result | BAF | Result | BAF | Result | BAF |
| ELT-01 | 5.85 | na | na | na | na | na | na | na | na |
| ELT-02 | na | na | na | na | na | 0.214 | na | 0.080 | na |
| ELT-03 | na | na | na | na | na | na | na | 0.110 | na |
| ELT-06 | 9.7 | na | na | 6.1 | 0.63 | na | na | na | na |
| ELT-07 | na | 12.5 | nd | na | na | na | na | na | na |
| ELT-08 | na | na | na | na | na | na | na | 0.108 | na |
| EMT-01 | na | na | na | 6.0 | na | na | na | na | na |
| EMT-02 | 7.2 | na | na | na | na | na | na | na | na |
| EMT-04 | na | na | na | 8.7 | na | na | na | na | na |
| EMT-05 | na | na | na | na | na | na | na | 0.114 | na |
| EMT-06 | na | 12.5 | nd | na | na | na | na | na | na |
| EMT-07 | 21.95 | na | na | na | na | na | na | na | na |
| EUT-01 | na | na | na | 9.408 | na | na | na | na | na |
| EUT-02 | na | 12.5 | nd | na | na | na | na | na | na |
| EUT-03 | 17.1 | na | na | na | na | na | na | na | na |
| EUT-04 | na | na | na | na | na | na | na | 0.075 | na |
| EUT-05 | 15.8 | na | na | na | na | na | na | na | na |
| EUT-07 | na | 12.5 | nd | na | na | na | na | 0.122 | na |
| EUT-08 | 11.5 | na | na | na | na | 0.094 | 0.008 | na | na |
| EUT-09 | 25.5 | na | na | na | na | na | na | na | na |
| Paired Data Count | | | 0 | | 1 | | 1 | | 0 |
| Upper Median | | | NA | | NA | | 0.008 | | NA |
| Middle Median | | | NA | | NA | | NA | | NA |
| Lower Median | | | NA | | 0.63 | | NA | | NA |
| **Sitewide Median** | | | **Median NA** | | **0.63** | | **0.008** | | **Median NA** |
| **Sitewide Average** | | | **Site ND** | | **0.53** | | **0.011** | | **0.007** |

**Notes:**
Red font indicates non-detect presented as the reporting limit.
BAF: bioaccumulation factor
BSA: biological sampling area
dw: dry weight
mg/kg: milligrams per kilogram
NA: not available
na: no sample aquired in specified area
ND: not detected
nd: ratio not calculated because PCBs not detected in sediment or tissue

**Table B-24. Animal Transfer Coefficients for Estimation of Bird Egg COPC Concentrations Anniston PCB Site, Anniston, Alabama**

| COPC | Chicken Egg Tco [a] (d/kg) |
|---|---|
| Unspeciated PCBs | 10 |
| PCB 77 | 6 |
| PCB 81 | 10 |
| PCB 105 | 10 |
| PCB 114 | 10 |
| PCB 118 | 10 |
| PCB 123 | 10 |
| PCB 126 | 10 |
| PCB 156 | 10 |
| PCB 157 | 10 |
| PCB 167 | 10 |
| PCB 169 | 10 |
| PCB 189 | 10 |
| Mercury | 0.8 |

**Notes:**
COPC: constituent of potential concern
d/kg: day per kilogram
PCB: polychlorinated biphenyl
Tco: transfer coefficient
a. OEHHA (2015) The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. March.

**Table B-25. Summary of OU-4 Bioaccumulation Factors/Regressions for PCBs and Mercury**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Media-Receptor Pair | Uptake Factor[a] | PCB | Mercury |
|---|---|---|---|
| Sediment to Aquatic Plants | BAF | Median BAFs (Table B-4, B-26) | Median BAFs (Table B-5, B-26) |
| | Regression Equation | -- | -- |
| Sediment to Emergent Insects | BAF | Median BAFs (Table B-4, B-26) | Median BAFs (Table B-5, B-26) |
| | Regression Equation | -- | -- |
| Sediment to Benthic Invertebrates[b] | BAF | -- | -- |
| | Regression Equation[c] | Median BAFs (Table B-4, B-26) | log (tissue, ww) = 0.3083*log (sediment, dw) - 1.2447 |
| | $r^2$ value | -- | 0.59 |
| | P value | -- | 0.003 |
| Sediment to Aquatic Oligochaetes (*Lumbriculus* ) | BAF | -- | -- |
| | Regression Equation[c] | log(tissue, ww) = 0.6272*log (sediment Aroclors, dw) +1.0224) | Gilmour et al (2013) BAF= 1 |
| Sediment to Crayfish | BAF | Median BAFs (Table B-4, B-26) | **--** |
| | Regression Equation | -- | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | $r^2$ value | -- | 0.51 |
| | P value | -- | 0.02 |
| Sediment to Mollusc | BAF | Median BAFs (Table B-4, B-26) | Median BAFs (Table B-5) |
| | Regression Equation | -- | -- |
| Sediment to Frogs | BAF | Median BAFs (Table B-4, B-26) | -- |
| | Regression Equation | -- | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | $r^2$ value | -- | 0.621 |
| | P value | -- | 0.01 |
| Sediment to Snakes | BAF | Median BAFs (Table B-4, B-26) | -- |
| | Regression Equation | -- | Log (tissue, ww) = 0.2167*log (sediment, dw) - 0.5347 |
| | $r^2$ value | -- | 0.41 |
| | P value | -- | 0.05 |
| Sediment to Forage Fish | BAF | Median BAFs (Table B-6, B-26) | Median BAFs (Table B-7, B-26) |
| | Regression Equation | -- | -- |
| Sediment to Bottom Fish | BAF | Median BAFs (Table B-6, B-26) | Median BAFs (Table B-7, B-26) |
| | Regression Equation | -- | -- |
| Sediment to Predator Fish | BAF | Median BAFs (Table B-6, B-26) | Median BAFs (Table B-7, B-26) |
| | Regression Equation | -- | -- |
| Sediment to All Fish | BAF[d] | Median BAFs (Table B-6, B-26) | Median BAFs (Table B-7, B-26) |
| | Regression Equation | -- | -- |

**Table B-25. Summary of OU-4 Bioaccumulation Factors/Regressions for PCBs and Mercury**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Media Receptor Pair | Uptake Factor | PCB | Mercury |
|---|---|---|---|
| Soil to All Small Mammals | BAF | -- | Median BAFs (Table B-16, B-26) |
| | Regression Equation | log (tissue, dw) = 0.5446*log (soil, dw) + 0.3164 | -- |
| | $r^2$ value | 0.48 | -- |
| | P value | 0.003 | -- |
| Soil to Soil Invertebrates (Earthworms) | BAF | | |
| | Regression Equation | tissue, dw = 4.7017*(soil, dw) - 0.5528 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | $r^2$ value | 0.85 | 0.89 |
| | P value | 0.008 | 0.0001 |
| Soil to Terrestrial Insects (Grasshoppers) | BAF | Blankenship et al. (2005) BAF = 0.17 | Median BAFs (Table B-16, B-26) |
| | Regression Equation | -- | -- |
| Soil to Terrestrial Plants | BAF | -- | Pant et al. (2011) BAF = 0.05 |
| | Regression Equation | Ficko et al. (2013)<br>tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | -- |

**Notes:**

a. The regression equation and statistics represent the correlation pair with the highest $r^2$ value and the lowest P value. If a dry weight to dry weight pair had similar $r^2$ and P values to the correlation pair with highest $r^2$ value and the lowest P value, the dry weight to dry weight equation and statistics were selected. $r^2$ and P values have only been included when a regression equation has been included. Regression equations for negative relationships were not included.
b. PCB uptake also evaluated based on the regression equation from the laboratory data analysis.
c. Significant regression equations based on dry weight tissue and sediment unavailable.
d. This BAF is calculated using data from the three individual fish tissue types.
--: no correlation pairs with $r^2 > 0.3$ and $p < 0.1$ and/or the regression showed a negative correlation
BAF: bioaccumulation factor
dw: dry weight
ng/g: nanograms per gram
PCB: polychlorinated biphenyl
USEPA: United States Environmental Protection Agency
ww: wet weight

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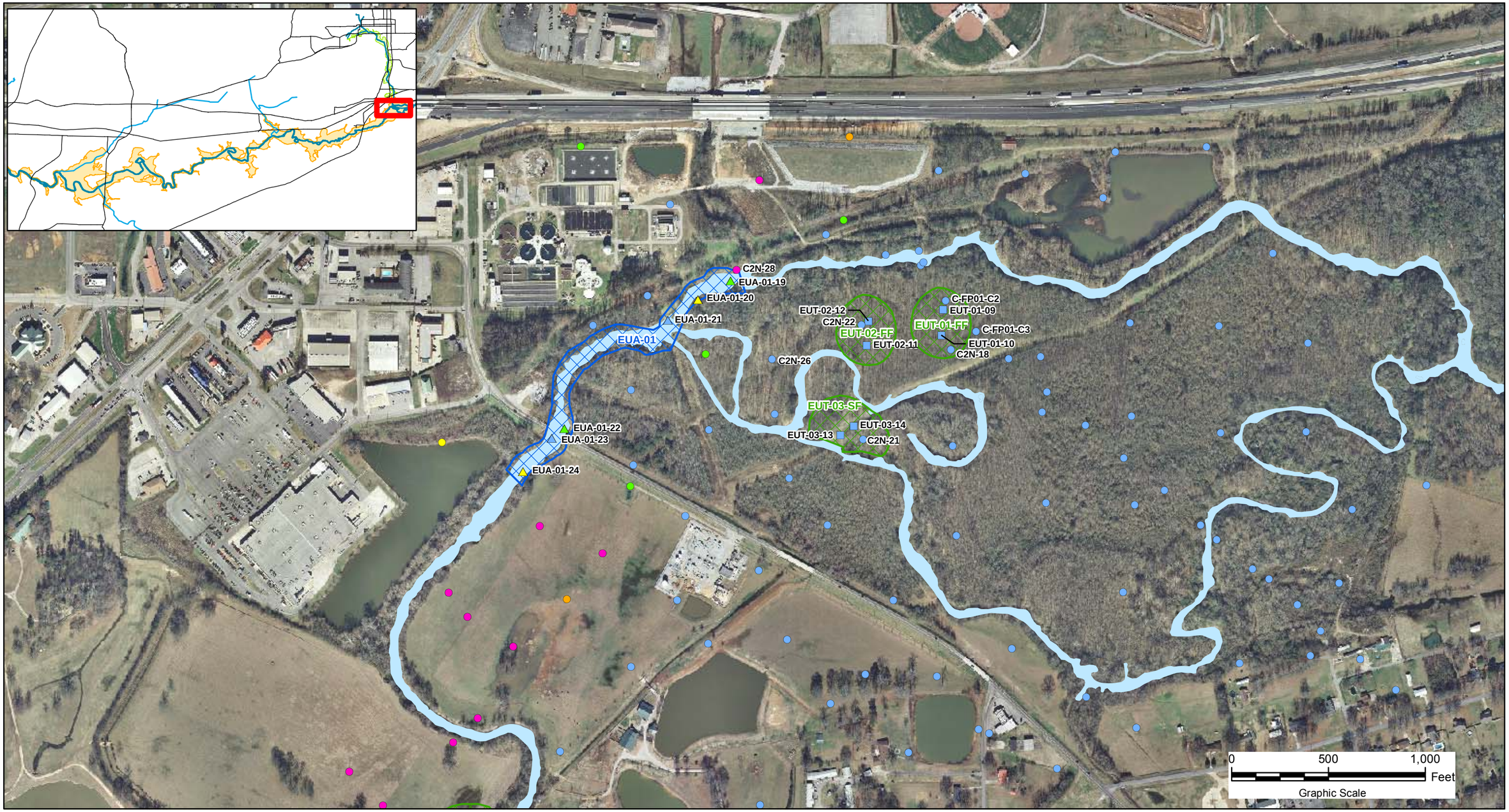
**Table B-26. Summary of Median BAFs for PCBs and Metals**
**Anniston PCB Site, Anniston, Alabama**

| Habitat | Type | AA | Bioaccumulation Factors (Median) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Aquatic Plants | Emergent Insects | Benthic Invertebrates | Crayfish | Mollusks | Frog | Snake | Forage Fish | Bottom Fish | Predator Fish | All Fish | Worms | Terrestrial Insects | Terrestrial plants | Small Mammals |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Aquatic | AA Median | Upper (Median) | 0.60 | 20.18 | 1.14 | 1.92 | 10.53 | 8.67 | 83.29 | 16.65 | 43.99 | 80.60 | 22.24 | | | | |
| Aquatic | AA Median | Middle (Median) | 0.42 | 0.53 | 1.14 | 1.37 | 4.73 | 2.49 | 62.71 | 22.01 | 21.59 | 46.60 | 23.72 | | | | |
| Aquatic | AA Median | Lower (Median) | 0.26 | 0.56 | 0.58 | 0.58 | 7.24 | 2.18 | 24.54 | 19.31 | 43.60 | 62.15 | 22.41 | | | | |
| Aquatic | Site-wide Median | Sitewide | 0.45 | 0.68 | 0.78 | 0.93 | 7.24 | 3.36 | 24.54 | 18.24 | 32.71 | 62.15 | 22.41 | | | | |
| Terrestrial | AA Median | Upper (Median) | | | | | | | | | | | | 3.72 | AA ND | 0.01 | 0.50 |
| Terrestrial | AA Median | Middle (Median) | | | | | | | | | | | | 7.38 | AA ND | 0.35 | 1.44 |
| Terrestrial | AA Median | Lower (Median) | | | | | | | | | | | | 3.00 | AA ND | AA ND | 1.24 |
| Terrestrial | Site-wide Median | Sitewide | | | | | | | | | | | | 4.75 | 0.17 a | 0.29 | 0.74 |
| **Mercury** | | | | | | | | | | | | | | | | | |
| Aquatic | AA Median | Upper (Median) | 0.09 | 0.33 | 0.17 | 0.12 | 0.32 | 0.61 | 0.66 | 0.14 | 0.48 | 1.37 | 0.26 | | | | |
| Aquatic | AA Median | Middle (Median) | 0.07 | 0.13 | 0.29 | 0.16 | 0.26 | 0.36 | 0.97 | 0.45 | 0.29 | 1.34 | 0.47 | | | | |
| Aquatic | AA Median | Lower (Median) | 0.08 | 0.13 | 0.26 | 0.19 | 0.83 | 0.43 | 0.57 | 0.46 | 0.40 | 1.58 | 0.55 | | | | |
| Aquatic | Site-wide Median | Sitewide | 0.08 | 0.14 | 0.25 | 0.16 | 0.33 | 0.37 | 0.60 | 0.32 | 0.40 | 1.38 | 0.43 | | | | |
| Terrestrial | AA Median | Upper (Median) | | | | | | | | | | | | 2.15 | 0.02 | AA ND | 0.01 |
| Terrestrial | AA Median | Middle (Median) | | | | | | | | | | | | 3.69 | AA ND | 0.07 | 0.08 |
| Terrestrial | AA Median | Lower (Median) | | | | | | | | | | | | 3.83 | 0.07 | AA ND | 0.14 |
| Terrestrial | Site-wide Median | Sitewide | | | | | | | | | | | | 2.80 | 0.02 | 0.07 | 0.04 |
| **Barium** | | | | | | | | | | | | | | | | | |
| Aquatic | Site-wide Median | Sitewide | 1.47 | 0.05 | 0.91 | 5.68 | 0.80 | Median NA | Median NA | 0.94 | 0.24 | 0.23 | 0.30 | | | | |
| Aquatic | Site-wide Ave Ratio | Sitewide | -- | -- | -- | -- | -- | 1.17 | 0.27 | -- | -- | -- | -- | | | | |
| Terrestrial | Site-wide Median | Sitewide | | | | | | | | | | | | 0.82 | 0.04 | Median NA | Median NA |
| Terrestrial | Site-wide Ave Ratio | Sitewide | | | | | | | | | | | | -- | -- | 0.87 | 0.21 |
| **Chromium** | | | | | | | | | | | | | | | | | |
| Aquatic | Site-wide Median | Sitewide | 0.28 | Median NA | 0.35 | 0.08 | 1.27 | Median NA | Median NA | 0.59 | 0.06 | 0.16 | 0.17 | | | | |
| Aquatic | Site-wide Ave Ratio | Sitewide | -- | 1.10 | -- | -- | -- | 1.11 | Site ND | -- | -- | -- | -- | | | | |
| Terrestrial | Site-wide Median | Sitewide | | | | | | | | | | | | 0.92 | Median NA | Median NA | Median NA |
| Terrestrial | Site-wide Ave Ratio | Sitewide | | | | | | | | | | | | -- | Site ND | 0.09 | 0.30 |
| **Cobalt** | | | | | | | | | | | | | | | | | |
| Aquatic | Site-wide Median | Sitewide | Median NA | Median NA | 1.24 | Median NA | 1.69 | Median NA | Median NA | Median NA | 0.09 | 0.06 | 0.07 | | | | |
| Aquatic | Site-wide Ave Ratio | Sitewide | Site ND | 0.07 | -- | Site ND | -- | 0.39 | Site ND | Site ND | -- | -- | -- | | | | |
| Terrestrial | Site-wide Median | Sitewide | | | | | | | | | | | | 0.86 | Median NA | Median NA | Median NA |
| Terrestrial | Site-wide Ave Ratio | Sitewide | | | | | | | | | | | | -- | Site ND | 0.06 | Site ND |
| **Lead** | | | | | | | | | | | | | | | | | |
| Aquatic | Site-wide Median | Sitewide | 0.51 | 0.02 | 0.80 | 0.13 | 1.04 | Median NA | Median NA | 0.02 | 0.03 | 0.03 | 0.03 | | | | |
| Aquatic | Site-wide Ave Ratio | Sitewide | -- | -- | -- | -- | -- | 0.39 | 0.09 | -- | -- | -- | -- | | | | |
| Terrestrial | Site-wide Median | Sitewide | | | | | | | | | | | | 0.66 | 0.01 | Median NA | Median NA |
| Terrestrial | Site-wide Ave Ratio | Sitewide | | | | | | | | | | | | -- | -- | 0.003 | 0.10 |
| **Vanadium** | | | | | | | | | | | | | | | | | |
| Aquatic | Site-wide Median | Sitewide | 0.33 | Median NA | 0.44 | 0.19 | 0.55 | Median NA | Median NA | 0.16 | 0.05 | 0.03 | 0.05 | | | | |
| Aquatic | Site-wide Ave Ratio | Sitewide | -- | 0.44 | -- | -- | -- | 0.18 | Site ND | -- | -- | -- | -- | | | | |
| Terrestrial | Site-wide Median | Sitewide | | | | | | | | | | | | 0.63 | 0.01 | Median NA | Median NA |
| Terrestrial | Site-wide Ave Ratio | Sitewide | | | | | | | | | | | | -- | -- | 0.01 | Site ND |

**Notes:**
a. Based on data presented by Blankenship et al. (2005)
AA: assessment area
NA: not applicable
ND: nondetect

# FIGURES




**Legend**

OU-4 Phase 2 Ecological Sediment Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)
- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

Historical Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)
- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

OU-4 Phase 2 Ecological Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)
- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

- Approximate Area of Aquatic BSA - OU-4 Phase 2 Ecological Sampling
- Approximate Area of Terrestrial BSA - OU-4 Phase 2 Ecological Sampling
- Creek

Notes:
1. BAF: bioaccumulation factor
   BSA: biological sampling area
   mg/kg: milligrams per kilogram
   OU: operable unit
   PCB: polychlorinated biphenyl
2. Highlighted locations represent riparian soil locations along the creek bank selected for inclusion in the cranefly BAF calculation.

Anniston PCB Site
Anniston, Alabama
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

**Biological Sample Areas and Locations**
**Upper Assessment Area**
**EUA-01, EUT-01, EUT-02, and EUT-03**

Solutia
Ingenuity Productivity Performance

Figure
**B-1a**

City: SYR Div/Group: SWG Created By: K.Ives Last Saved By: kives
Anniston
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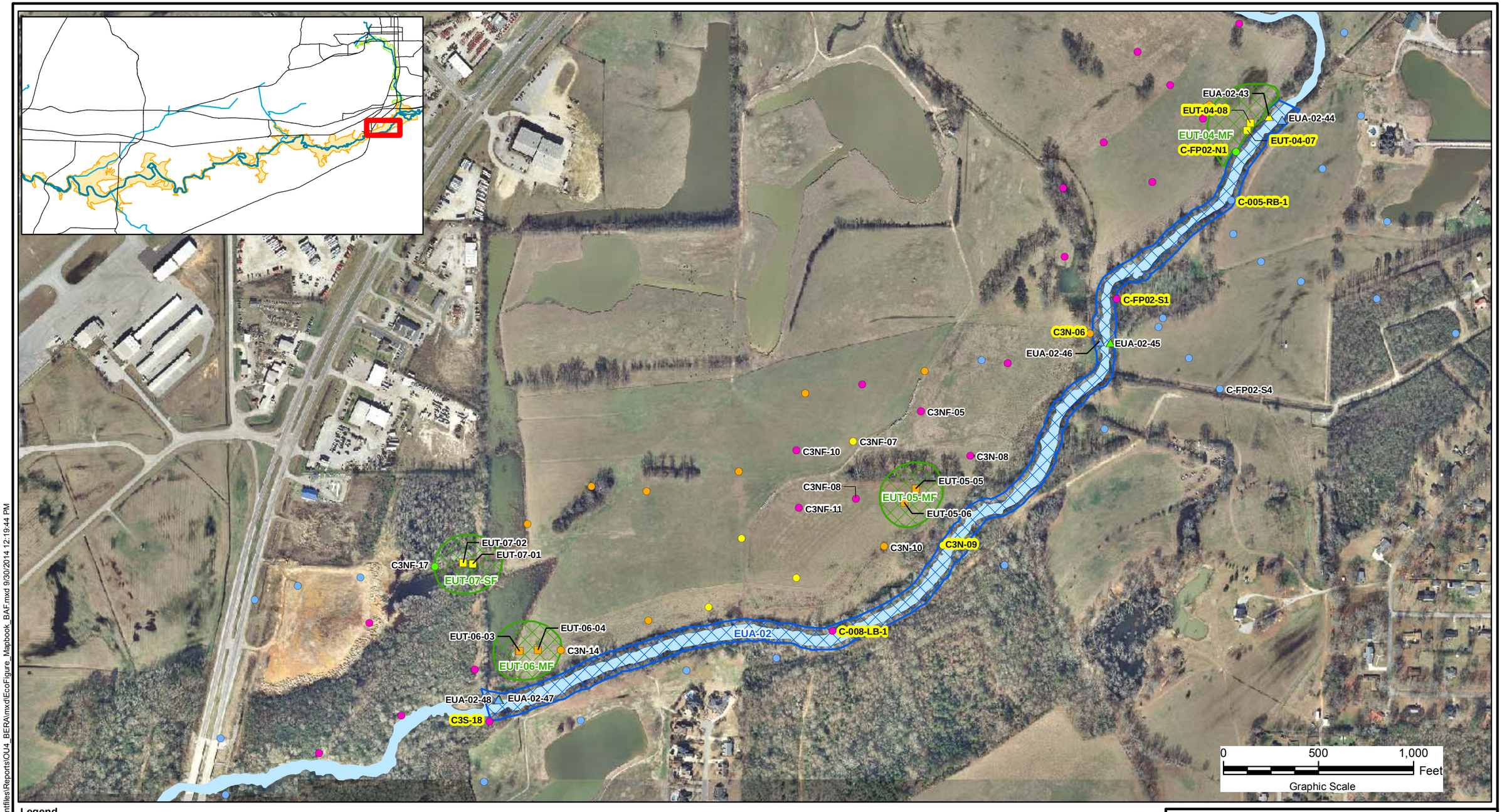


**Legend**

OU-4 Phase 2 Ecological Sediment Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)

- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

Historical Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)

- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

OU-4 Phase 2 Ecological Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)

- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

- Approximate Area of Aquatic BSA - OU-4 Phase 2 Ecological Sampling
- Approximate Area of Terrestrial BSA - OU-4 Phase 2 Ecological Sampling
- Creek

Notes:
1. BAF: bioaccumulation factor
   BSA: biological sampling area
   mg/kg: milligrams per kilogram
   OU: operable unit
   PCB: polychlorinated biphenyl
2. Highlighted locations represent riparian soil locations along the creek bank selected for inclusion in the cranefly BAF calculation.

Anniston PCB Site
Anniston, Alabama
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

**Biological Sample Areas and Locations**
**Upper Assessment Area**
**EUA-02, EUT-04, EUT-05, EUT-06, and EUT-07**

Solutia
Ingenuity Productivity Performance

Figure
**B-1b**

City: SYR Div/Group: SWG Created By: K.Ives Last Saved By: kives
Anniston
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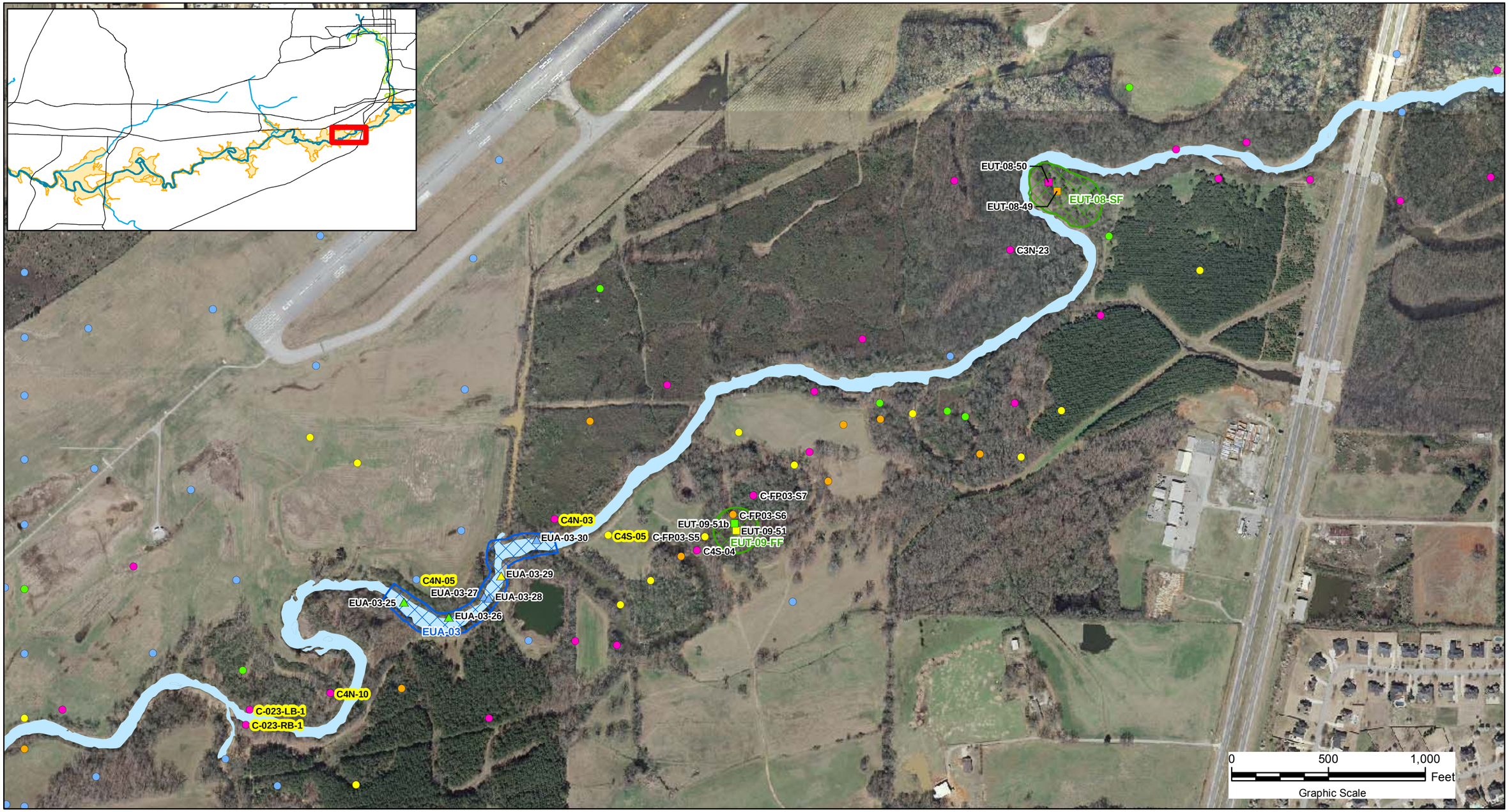


**Legend**

OU-4 Phase 2 Ecological Sediment Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)
- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

Historical Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)
- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

OU-4 Phase 2 Ecological Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)
- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

- Approximate Area of Aquatic BSA - OU-4 Phase 2 Ecological Sampling
- Approximate Area of Terrestrial BSA - OU-4 Phase 2 Ecological Sampling
- Creek

Notes:
1. BAF: bioaccumulation factor
   BSA: biological sampling area
   mg/kg: milligrams per kilogram
   OU: operable unit
   PCB: polychlorinated biphenyl
2. Highlighted locations represent riparian soil locations along the creek bank selected for inclusion in the cranefly BAF calculation.

Anniston PCB Site
Anniston, Alabama
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

**Biological Sample Areas and Locations**
**Upper Assessment Area**
**EUA-03, EUT-08, and EUT-09**

Solutia Ingenuity Productivity Performance

Figure
**B-1c**

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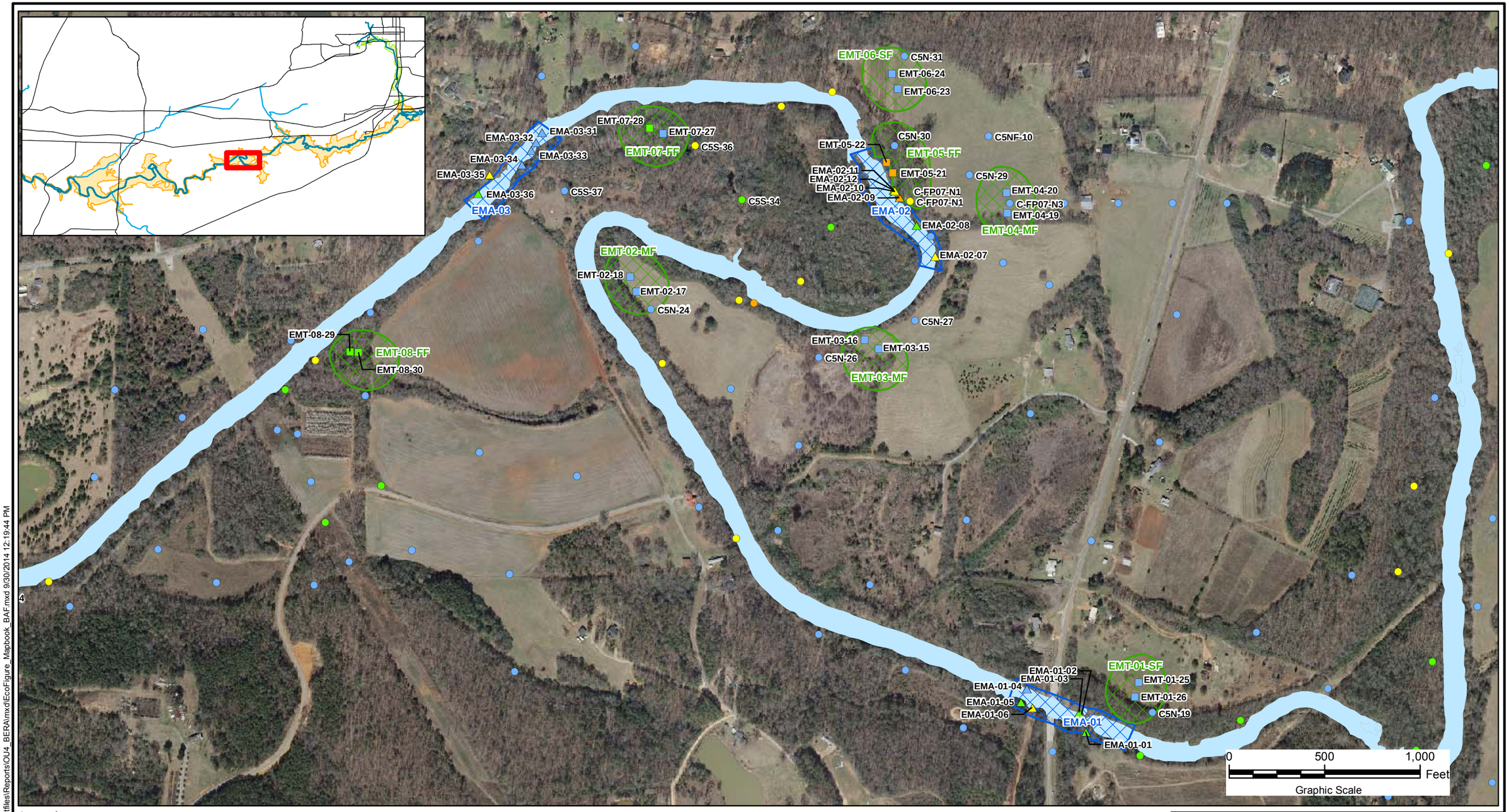


**Legend**

OU-4 Phase 2 Ecological Sediment Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)

- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

Historical Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)

- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

OU-4 Phase 2 Ecological Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)

- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

- Approximate Area of Aquatic BSA - OU-4 Phase 2 Ecological Sampling
- Approximate Area of Terrestrial BSA - OU-4 Phase 2 Ecological Sampling
- Creek

Notes:
1. BAF: bioaccumulation factor
   BSA: biological sampling area
   mg/kg: milligrams per kilogram
   OU: operable unit
   PCB: polychlorinated biphenyl
2. Highlighted locations represent riparian soil locations along the creek bank selected for inclusion in the cranefly BAF calculation.

Anniston PCB Site
Anniston, Alabama
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

**Biological Sample Areas and Locations**
**Middle Assessment Area**
**EMA-01, EMA-02, EMA-03, EMT-01, EMT-02, EMT-03, EMT-04, EMT-05, EMT-06, EMT-07, and EMT-08**

Solutia
Ingenuity Productivity Performance

Figure
**B-1d**

City: SYR Div/Group: SWG Created By: K.Ives Last Saved By: kives
Anniston
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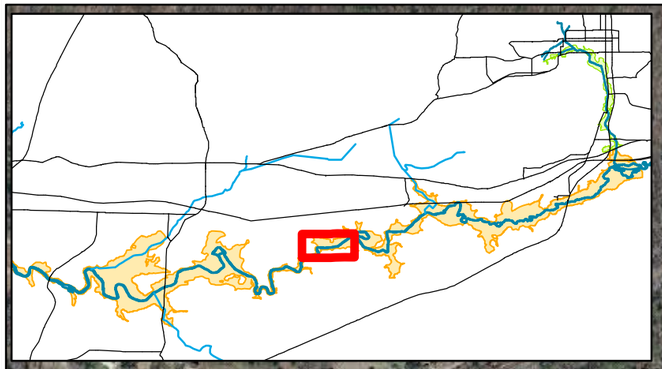

EMA-03-34
EMA-03-35
EMA-03-3
EMA-03
EMT-08-29
EMT-08-FF
EMT-08-30
EMT-09-32
EMT-09-31
C5S-44
C-071-RB-1
EMT-09-SF
C5S-45

0 500 1,000 Feet
Graphic Scale

**Legend**

OU-4 Phase 2 Ecological Sediment Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)
- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

Historical Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)
- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

OU-4 Phase 2 Ecological Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)
- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

- Approximate Area of Aquatic BSA - OU-4 Phase 2 Ecological Sampling
- Approximate Area of Terrestrial BSA - OU-4 Phase 2 Ecological Sampling
- Creek

Notes:
1. BAF: bioaccumulation factor
   BSA: biological sampling area
   mg/kg: milligrams per kilogram
   OU: operable unit
   PCB: polychlorinated biphenyl
2. Highlighted locations represent riparian soil locations along the creek bank selected for inclusion in the cranefly BAF calculation.

Anniston PCB Site
Anniston, Alabama
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

**Biological Sample Areas and Locations**
**Middle Assessment Area**
**EMT-09, EMA-03, and EMT-08**

Solutia
Ingenuity Productivity Performance

Figure
**B-1e**

City: SYR Div/Group: SWG Created By: K.Ives Last Saved By: kives
Anniston
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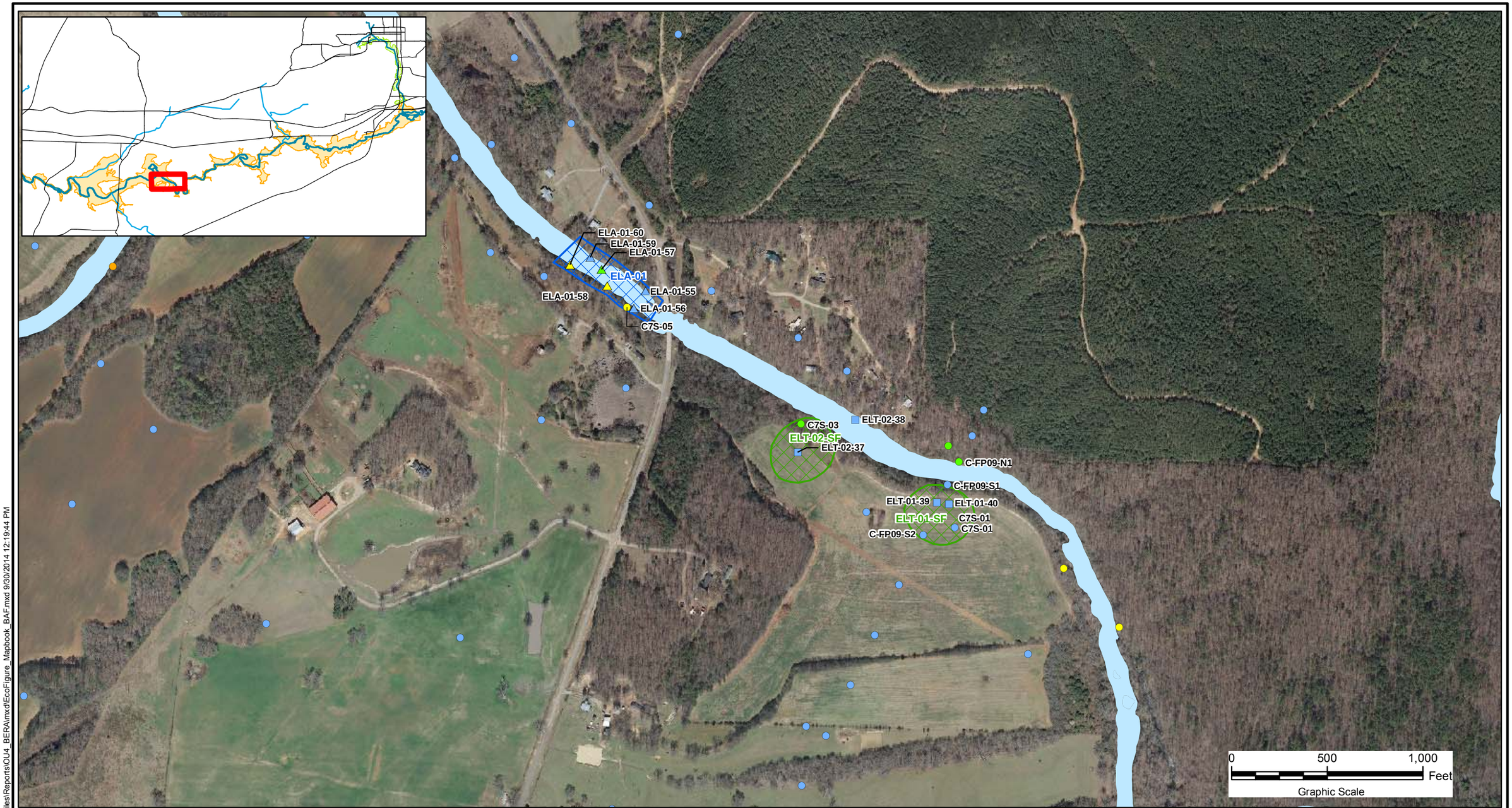


**Legend**

OU-4 Phase 2 Ecological Sediment Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)
- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

Historical Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)
- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

OU-4 Phase 2 Ecological Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)
- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

- Approximate Area of Aquatic BSA - OU-4 Phase 2 Ecological Sampling
- Approximate Area of Terrestrial BSA - OU-4 Phase 2 Ecological Sampling
- Creek

Notes:
1. BAF: bioaccumulation factor
   BSA: biological sampling area
   mg/kg: milligrams per kilogram
   OU: operable unit
   PCB: polychlorinated biphenyl
2. Highlighted locations represent riparian soil locations along the creek bank selected for inclusion in the cranefly BAF calculation.

Anniston PCB Site
Anniston, Alabama
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

**Biological Sample Areas and Locations**
**Lower Assessment Area**
**ELA-01, ELT-01, and ELT-02**

Solutia
Ingenuity Productivity Performance

Figure
**B-1f**

City: SYR Div/Group: SWG Created By: K.Ives Last Saved By: kives
Anniston
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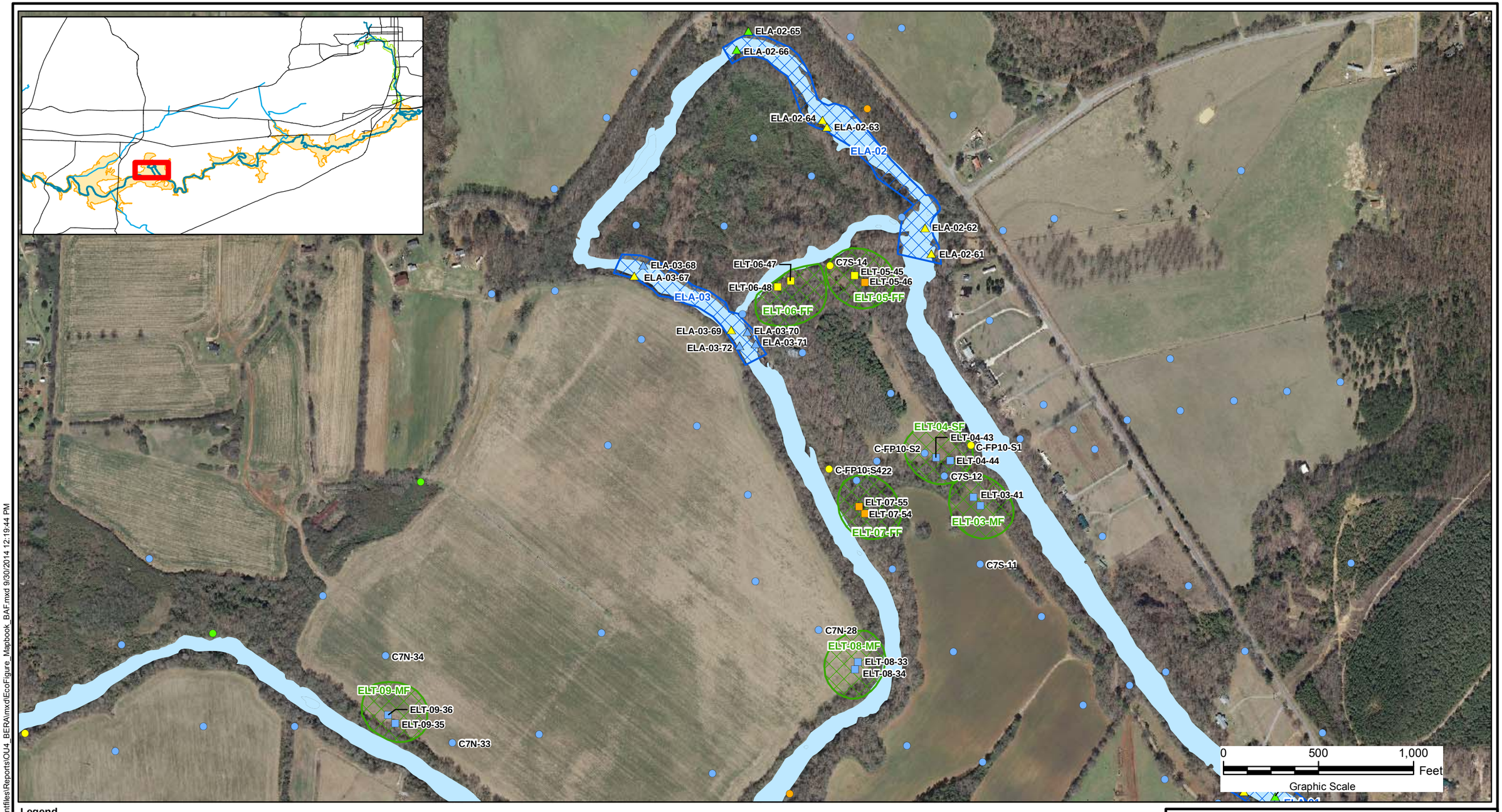


**Legend**

OU-4 Phase 2 Ecological Sediment Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)
- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

Historical Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)
- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

OU-4 Phase 2 Ecological Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in (mg/kg)
- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

- Approximate Area of Aquatic BSA - OU-4 Phase 2 Ecological Sampling
- Approximate Area of Terrestrial BSA - OU-4 Phase 2 Ecological Sampling
- Creek

Notes:
1. BAF: bioaccumulation factor
   BSA: biological sampling area
   mg/kg: milligrams per kilogram
   OU: operable unit
   PCB: polychlorinated biphenyl
2. Highlighted locations represent riparian soil locations along the creek bank selected for inclusion in the cranefly BAF calculation.

Anniston PCB Site
Anniston, Alabama
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

**Biological Sample Areas and Locations**
**Lower Assessment Area**
**ELA-02, ELA-03, ELT-03, ELT-04, ELT-05, ELT-06, ELT-07, ELT-08, and ELT-09**

Solutia
Ingenuity Productivity Performance

Figure
**B-1g**

City: SYR Div/Group: SWG Created By: K.Ives Last Saved By: kives
Anniston
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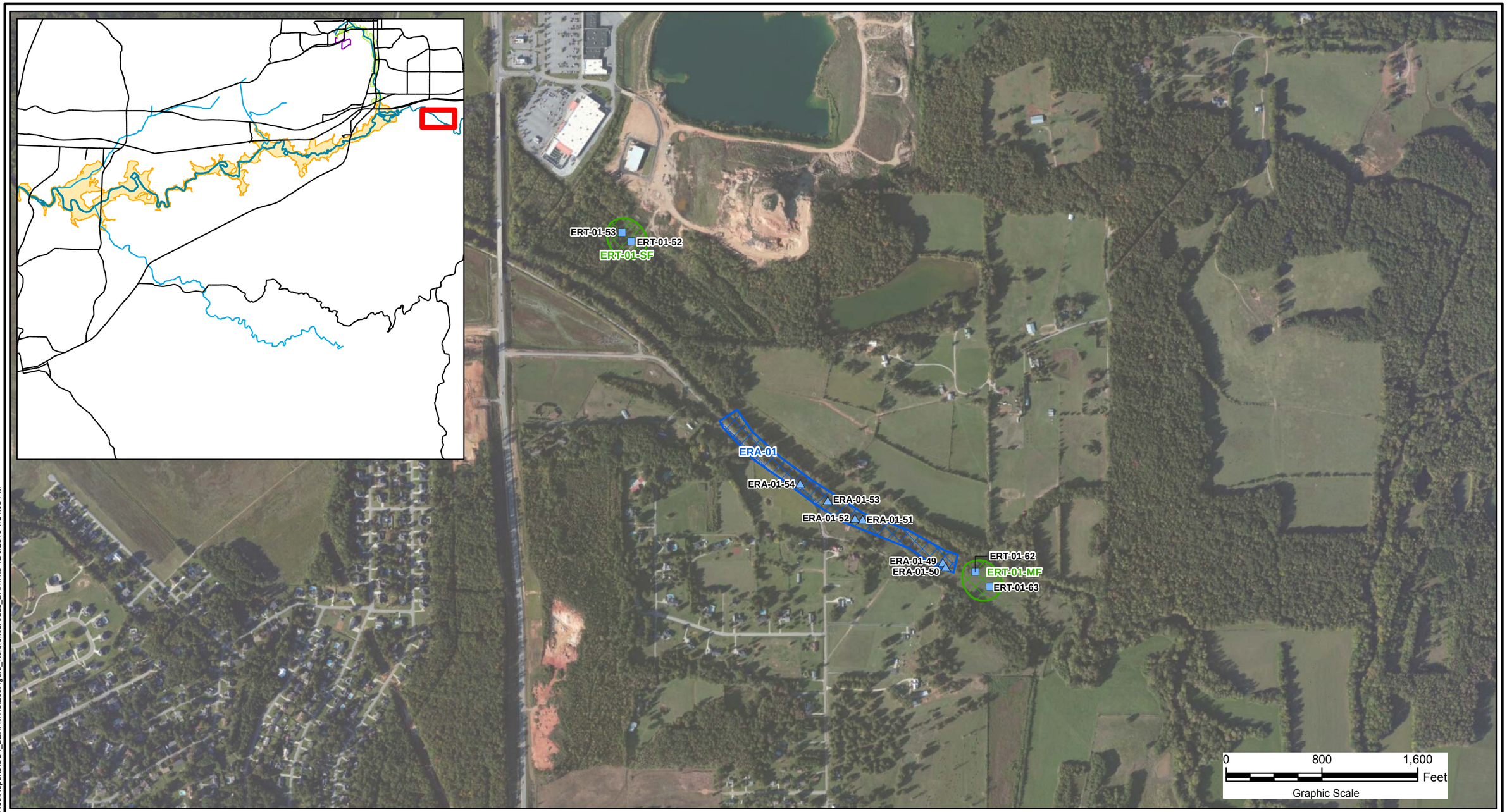


**Legend**

OU-4 Phase 2 Ecological Sediment Sample Location
Maximum PCB Result in Depths 0 - 6 in

- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

OU-4 Phase 2 Ecological Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in

- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

- Approximate Area of Aquatic BSA - OU-4 Phase 2 Ecological Sampling
- Approximate Area of Terrestrial BSA - OU-4 Phase 2 Ecological Sampling

Note:
1. BSA = Biological Sampling Area
   in = inches
   OU = Operable Unit
   PCB = Polychlorinated biphenyl

2. Imagery provided by NAIP imagery service licensed through ESRI product software.

Anniston PCB Site
Anniston, Alabama

**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

**Biological Sample Areas and Locations**
**Reference Area 1**
**ERA-01 and ERT-01**

Solutia
Ingenuity Productivity Performance

Figure
**B-1h**

City: SYR Div/Group: SWG Created By: K.Ives Last Saved By: kives
Anniston
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**Legend**

OU-4 Phase 2 Ecological Sediment Sample Location
Maximum PCB Result in Depths 0 - 6 in

- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

OU-4 Phase 2 Ecological Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in

- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

- Approximate Area of Aquatic BSA - OU-4 Phase 2 Ecological Sampling
- Approximate Area of Terrestrial BSA - OU-4 Phase 2 Ecological Sampling

Note:
1. BSA = Biological Sampling Area
   in = inches
   OU = Operable Unit
   PCB = Polychlorinated biphenyl
2. Imagery provided by NAIP imagery service licensed through ESRI product software.

Anniston PCB Site
Anniston, Alabama

**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

**Biological Sample Areas and Locations**
**Reference Area 2**
**ERA-02 and ERT-02**

Solutia
Ingenuity Productivity Performance

Figure
**B-1i**

City: SYR Div/Group: SWG Created By: K.Ives Last Saved By: kives
Anniston
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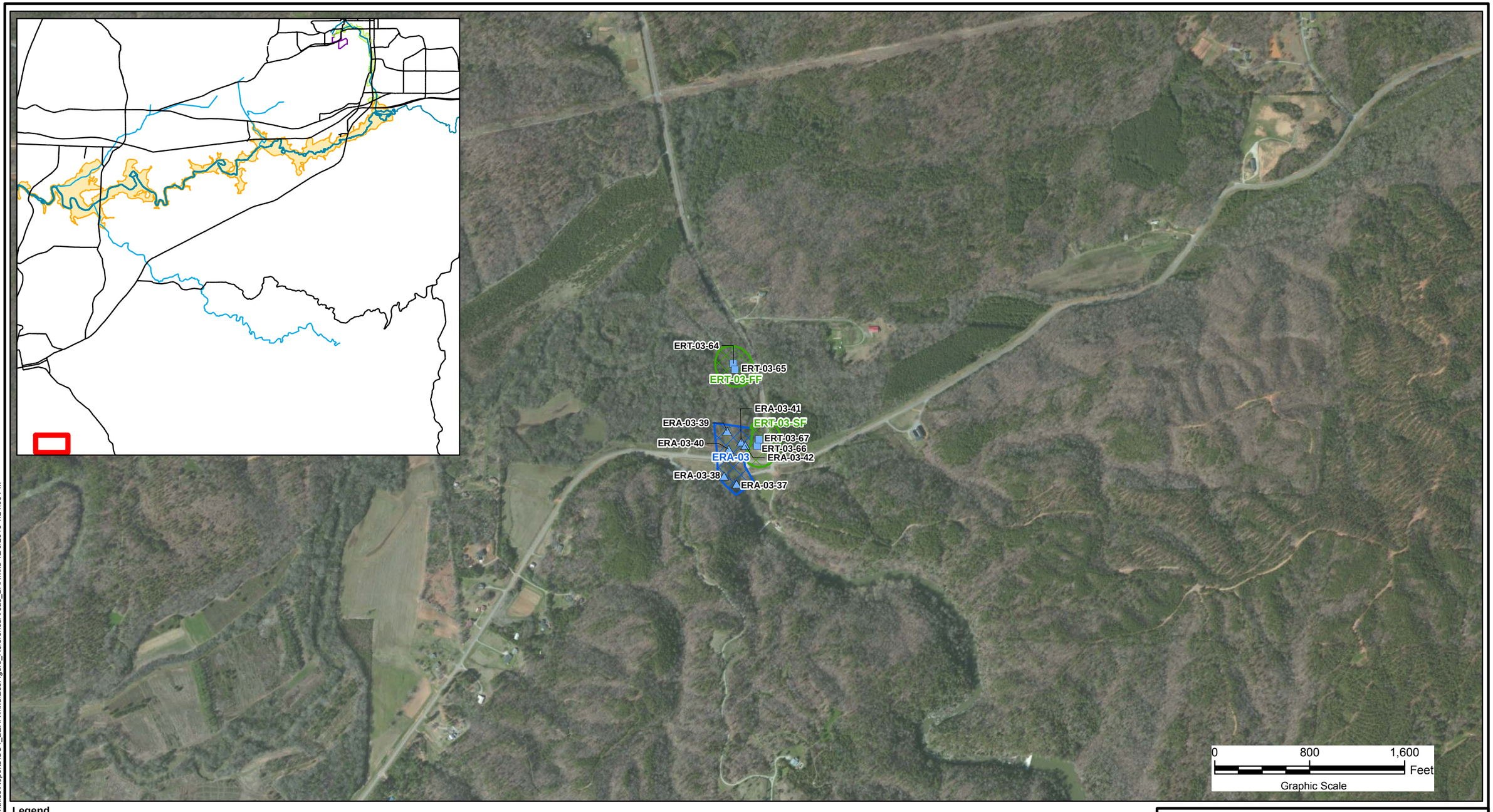


**Legend**

OU-4 Phase 2 Ecological Sediment Sample Location
Maximum PCB Result in Depths 0 - 6 in

- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

OU-4 Phase 2 Ecological Soil Sample Location
Maximum PCB Result in Depths 0 - 6 in

- < 1
- 1.00- 1.99
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10

- Approximate Area of Aquatic BSA - OU-4 Phase 2 Ecological Sampling
- Approximate Area of Terrestrial BSA - OU-4 Phase 2 Ecological Sampling

Note:
1. BSA = Biological Sampling Area
   in = inches
   OU = Operable Unit
   PCB = Polychlorinated biphenyl

2. Imagery provided by NAIP imagery service licensed through ESRI product software.

Anniston PCB Site
Anniston, Alabama

**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

**Biological Sample Areas and Locations**
**Reference Area 3**
**ERA-03 and ERT-03**

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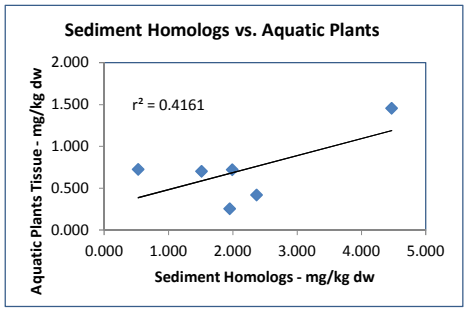
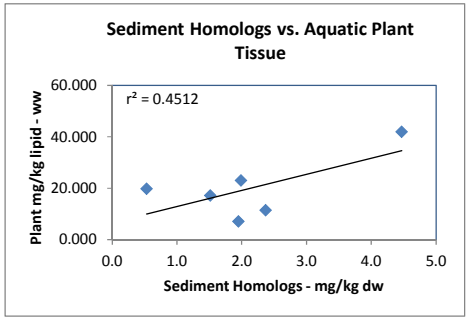
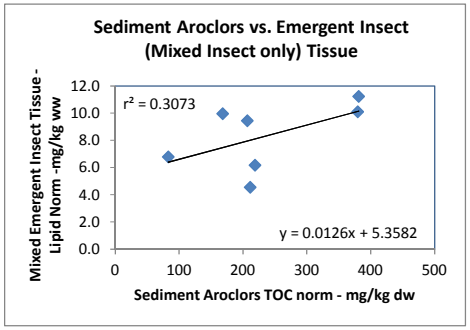
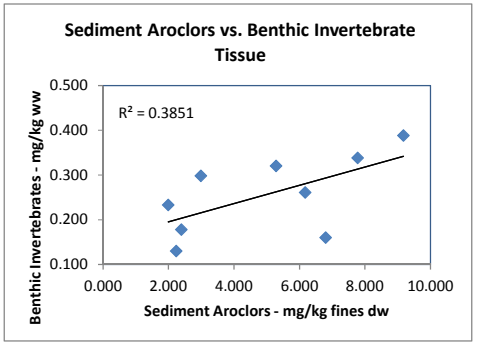
Figure
**B-1j**

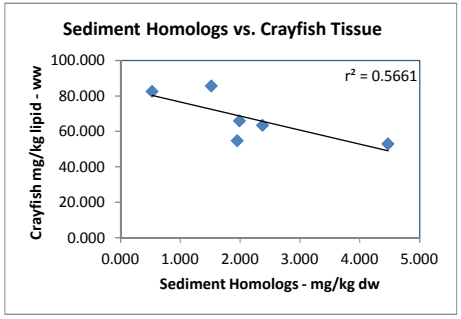
City: SYR Div/Group: SWG Created By: K.Ives Last Saved By: kives
Anniston
Q:\Anniston_PCB_Site\AnnistonALM\MXDs_PrintFiles\Reports\OU4_BERA\mxd\EcoFigure_ReferenceAreas_BAF.mxd 12/6/2013 1:24:05 PM

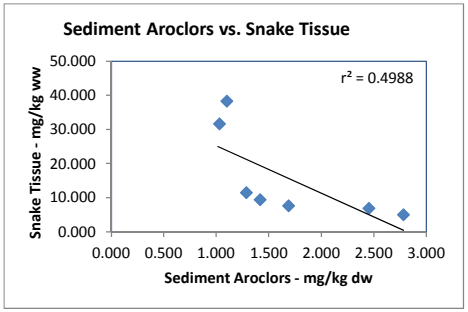


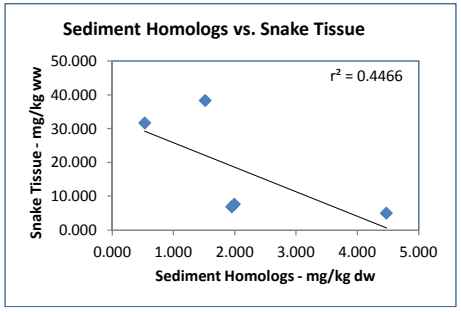



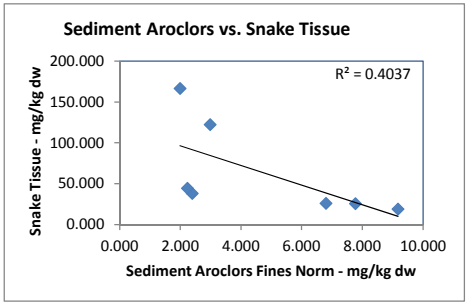



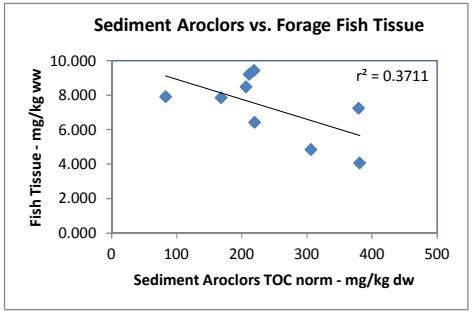



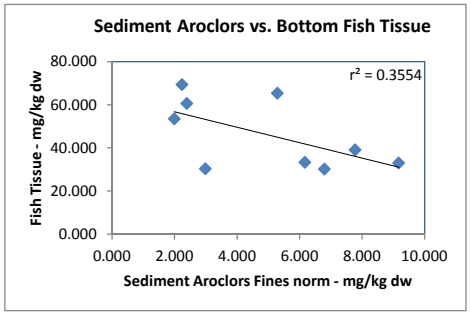



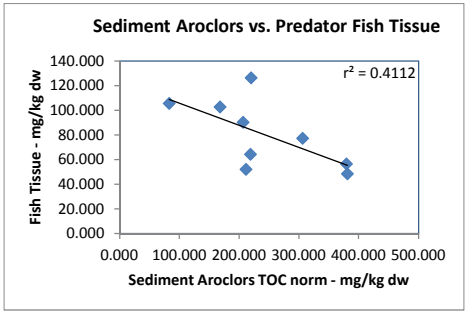



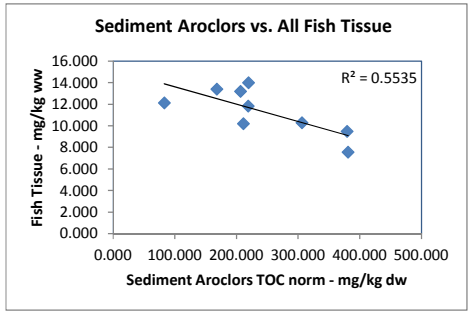




◆ detected tissue concentration

**Notes:**
dw: dry weight
mg/kg: milligrams per kilogram
PCB: polychlorinated biphenyl
TOC: total organic carbon
ww: wet weight
* When both wet weight and dry weight tissue correlations had $r^2$ values > 0.3, only the higher correlation was plotted.

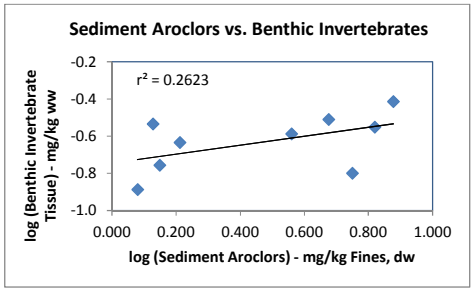
Anniston PCB Site
Anniston, Alabama

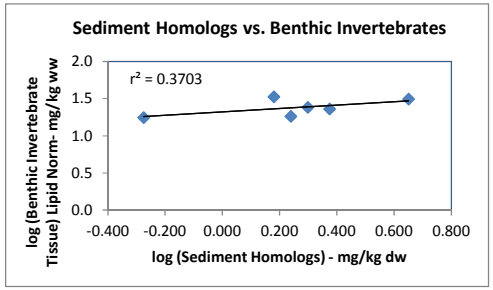
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Model Development**

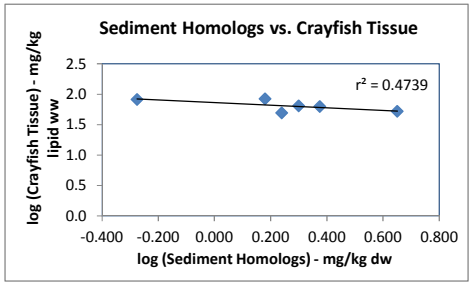
**Regression Plots of Sediment PCB and Tissue PCB Correlations with $r^2$ Values > 0.3***

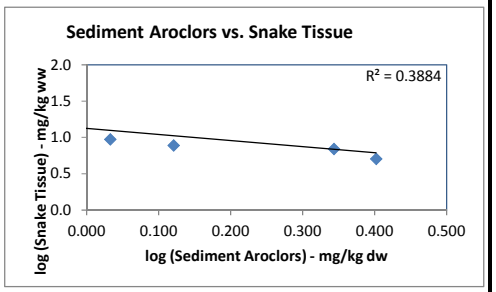
Solutia

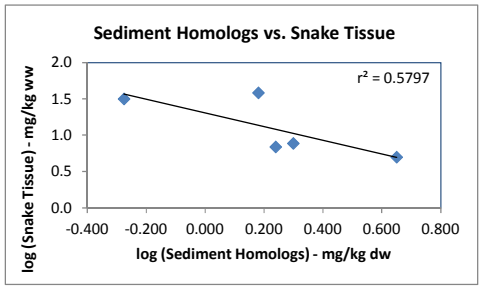
FIGURE
**B-2**

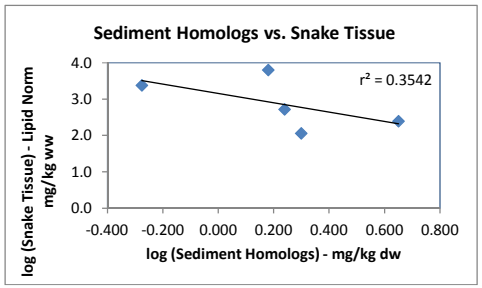


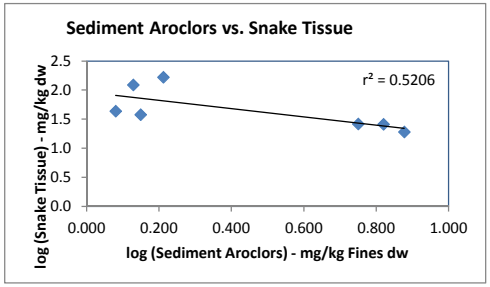



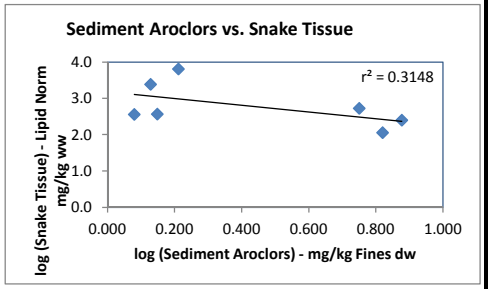



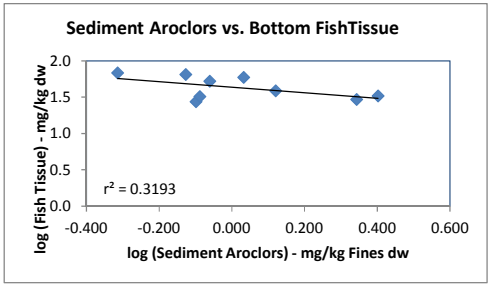



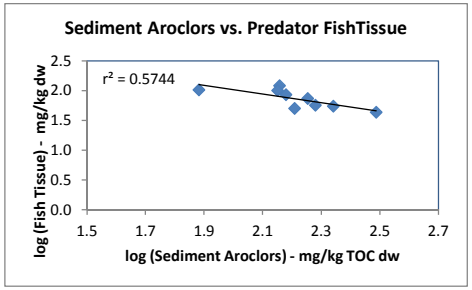



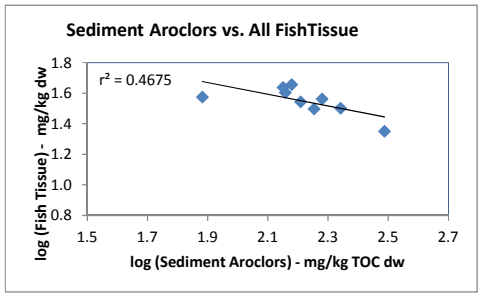




◆ detected tissue concentration

**Notes:**
dw: dry weight
mg/kg: milligrams per kilogram
PCB: polychlorinated biphenyl
TOC: total organic carbon
ww: wet weight
* When both wet weight and dry weight tissue correlations had $r^2$ values > 0.3, only the higher correlation was plotted.

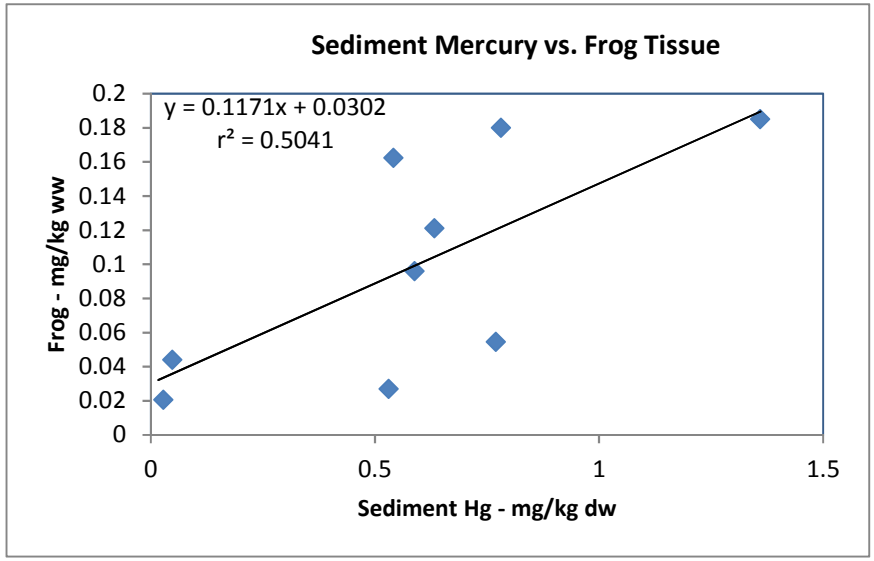
Anniston PCB Site
Anniston, Alabama

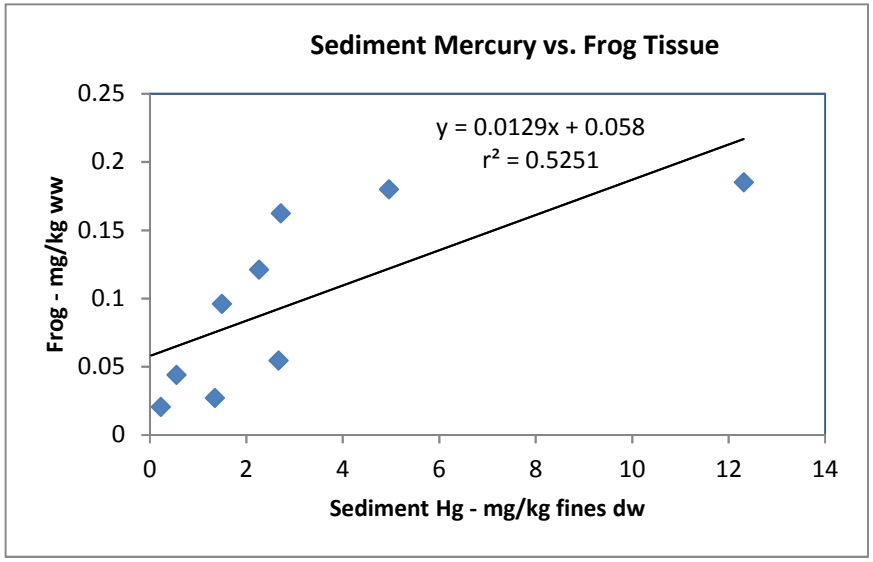
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Model Development**

**Regression Plots of Log Sediment PCB and Log Tissue PCB Correlations with $r^2$ Values > 0.3***

Solutia

FIGURE
**B-3**




◆ detected tissue concentration

**Notes:**
dw: dry weight
mg/kg: milligrams per kilogram
* When both wet weight and dry weight tissue correlations had $r^2$ values > 0.3, only the higher correlation was plotted.

Anniston PCB Site

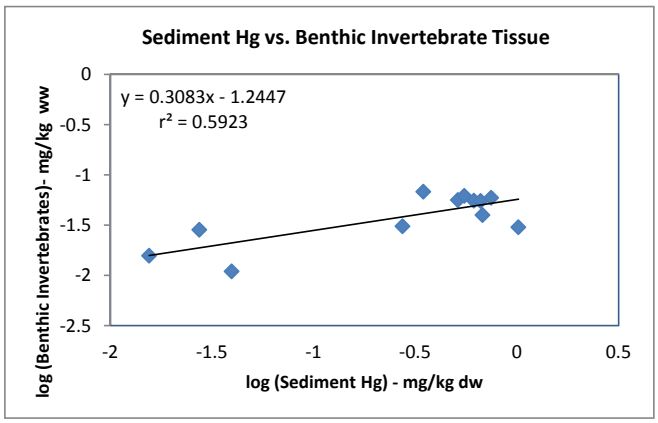
Anniston, Alabama

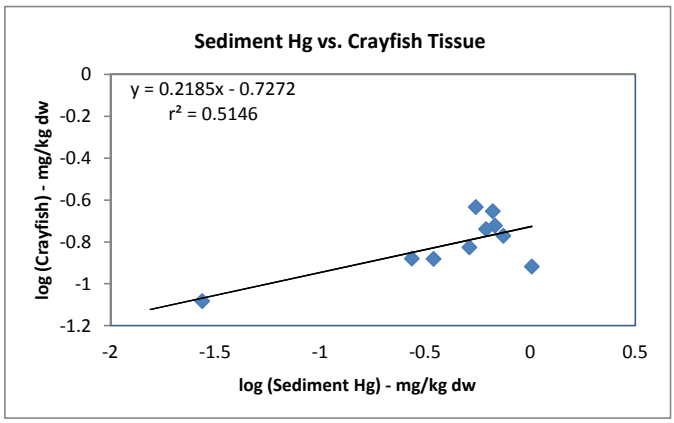
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Model Development**

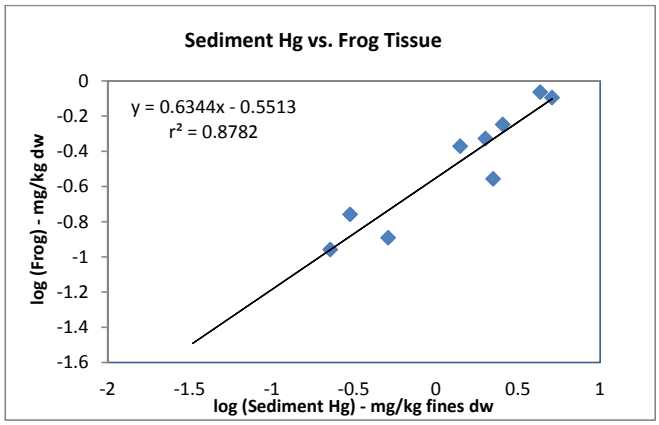
**Regression Plots of Sediment Mercury and Tissue Mercury Correlations with $r^2$ Values > 0.3***

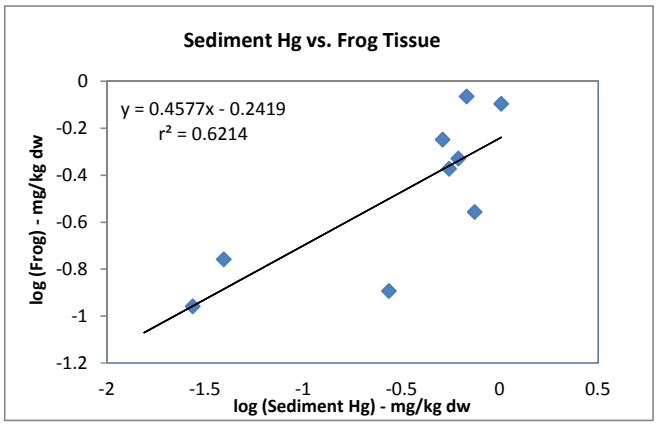
Solutia

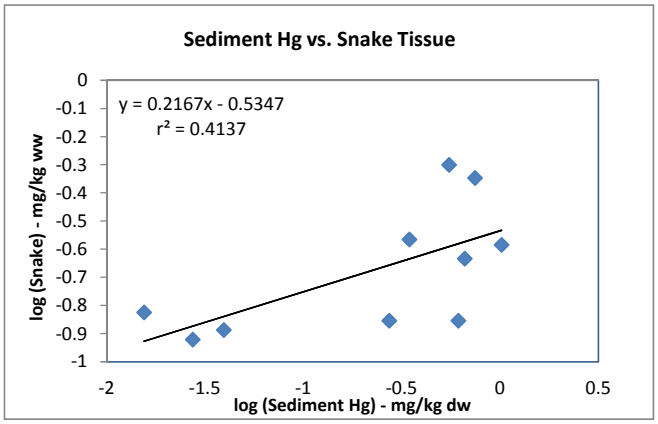
FIGURE
**B-4**




◆ detected tissue concentration

**Notes:**
dw: dry weight
Hg: mercury
mg/kg: milligrams per kilogram
* When both wet weight and dry weight tissue correlations had $r^2$ values > 0.3, only the higher correlation was plotted.

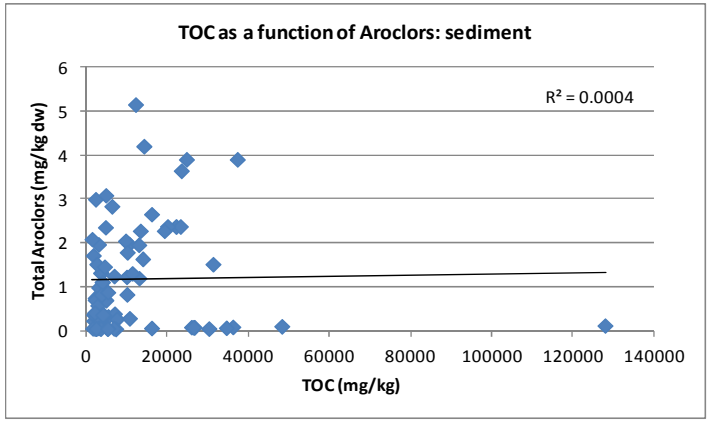
Anniston PCB Site
Anniston, Alabama

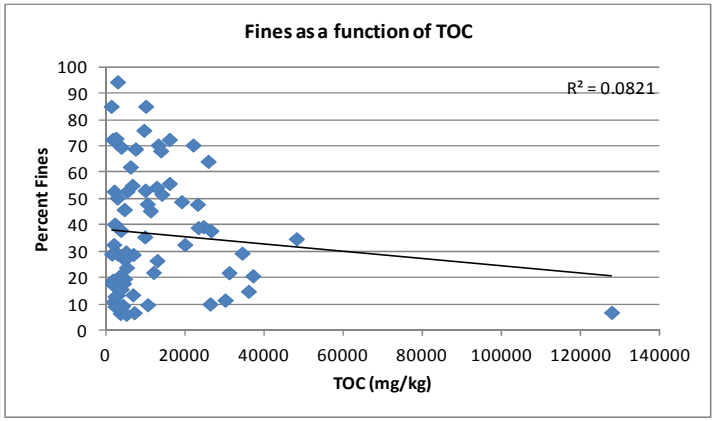
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Model Development**

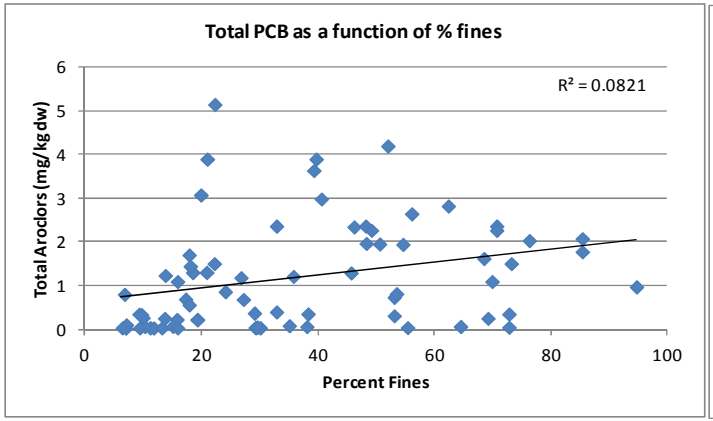
**Regression Plots of Log Sediment Mercury and Log Tissue Mercury Correlations with $r^2$ Values > 0.3***

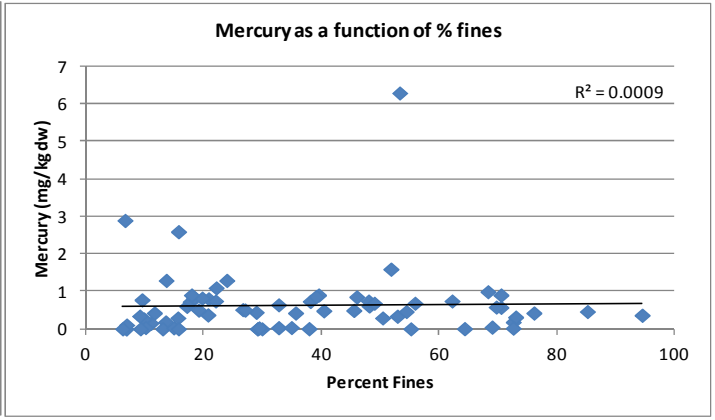
Solutia

FIGURE
**B-5**




**Notes:**
dw: dry weight
mg/kg: milligrams per kilogram
PCB: polychlorinated biphenyl
TOC: total organic carbon

◆ detected tissue concentration

Anniston PCB Site

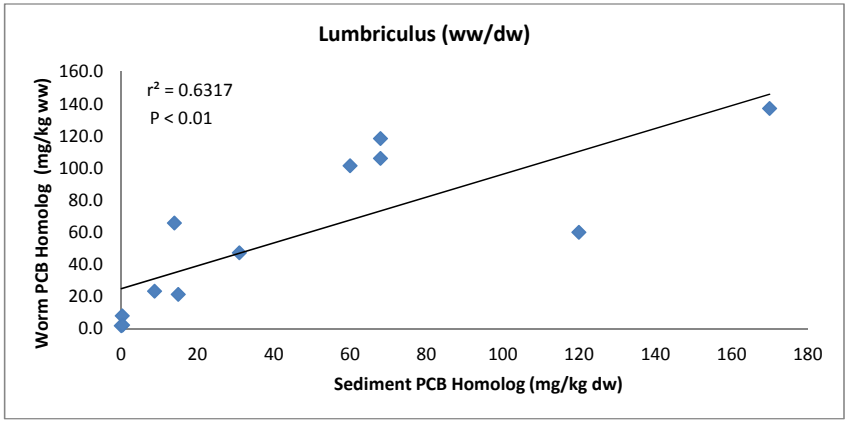
Anniston, Alabama

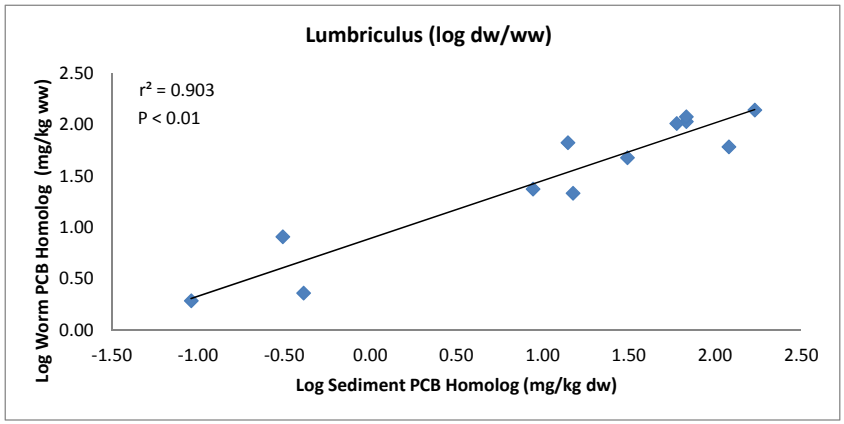
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

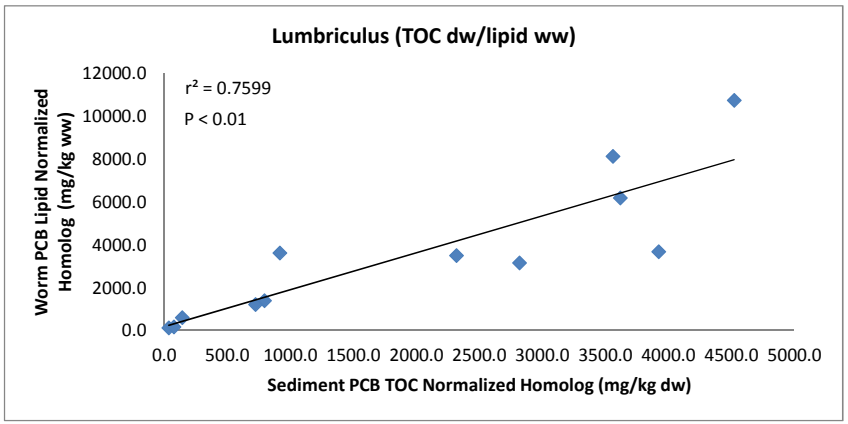
**Regression Analysis of PCB and Mercury Concentrations and Percent Fines; Total Organic Carbon and Percent Fines**

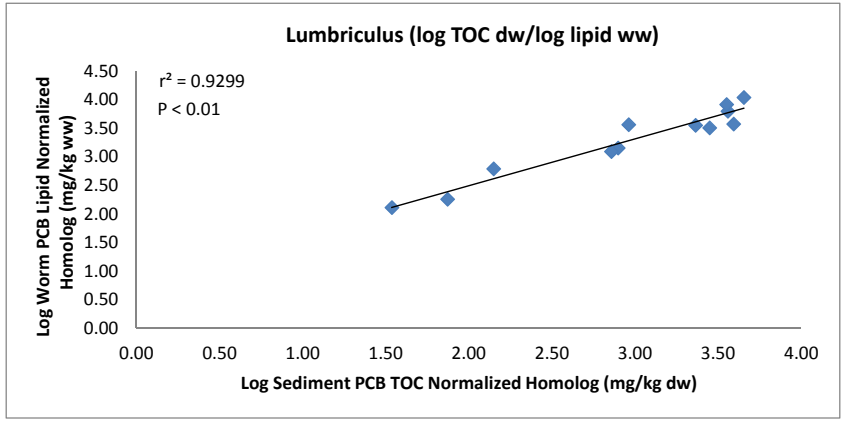
Solutia

FIGURE
**B-6**




**Notes:**
dw: dry weight
mg/kg: milligrams per kilogram
PCB: polychlorinated biphenyl
TOC: total organic carbon
ww: wet weight

◆ detected tissue concentration

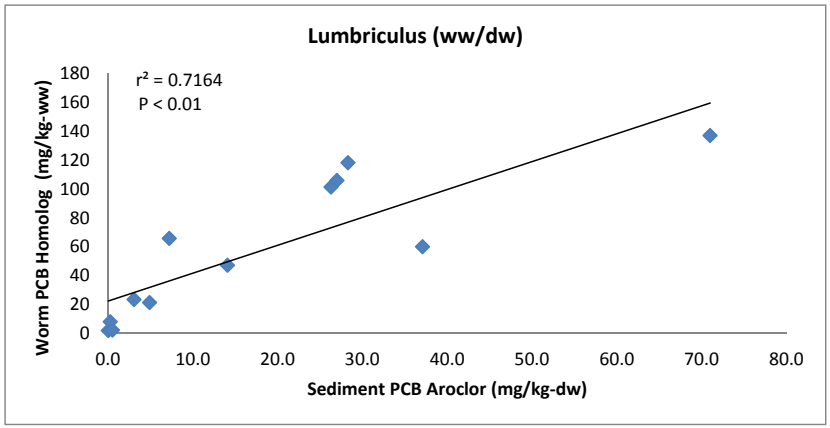
Anniston PCB Site
Anniston, Alabama

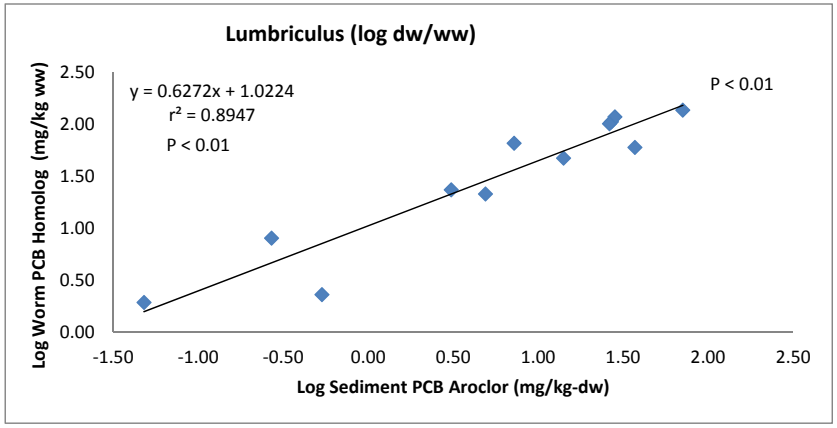
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

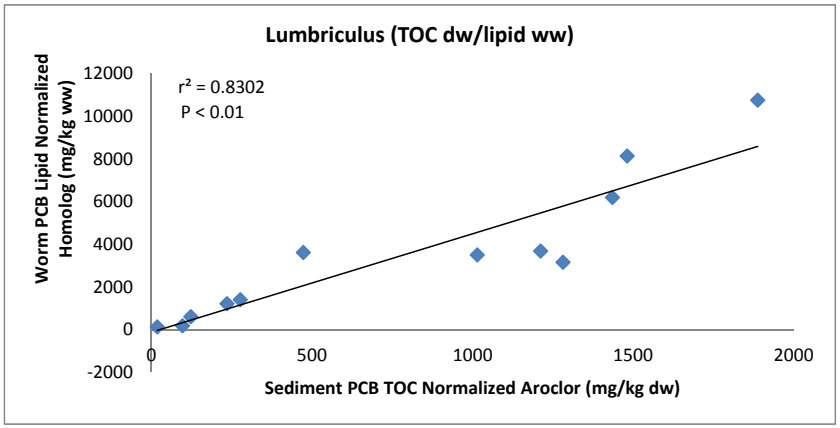
**PCB - Lumbriculus - Regression Analysis of Laboratory Bioaccumulation Data (Sediment and Tissue Measured as Homologs)**

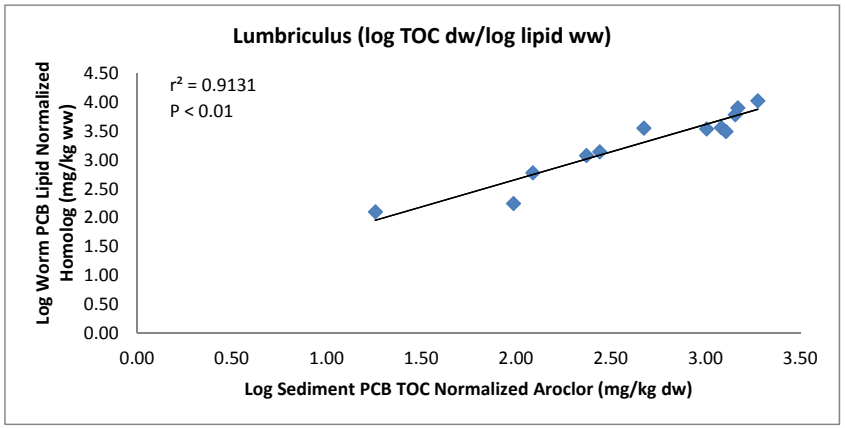
Solutia

FIGURE
**B-7**




**Notes:**
dw: dry weight
mg/kg: milligrams per kilogram
PCB: polychlorinated biphenyl
TOC: total organic carbon
ww: wet weight

◆ detected tissue concentration

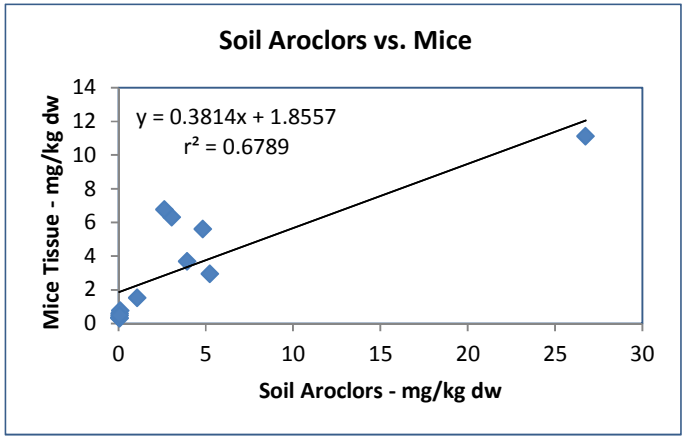
Anniston PCB Site
Anniston, Alabama

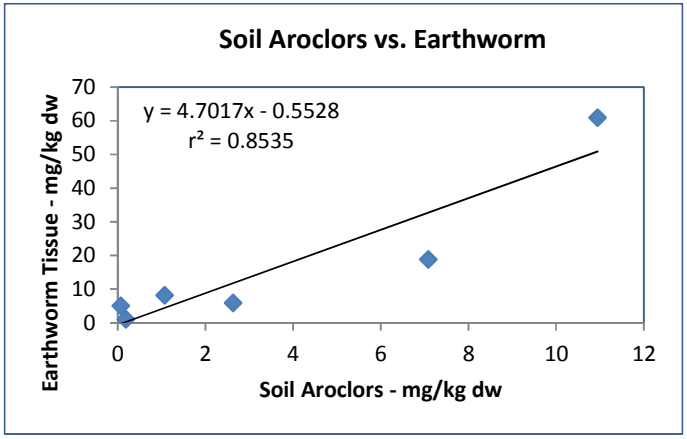
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

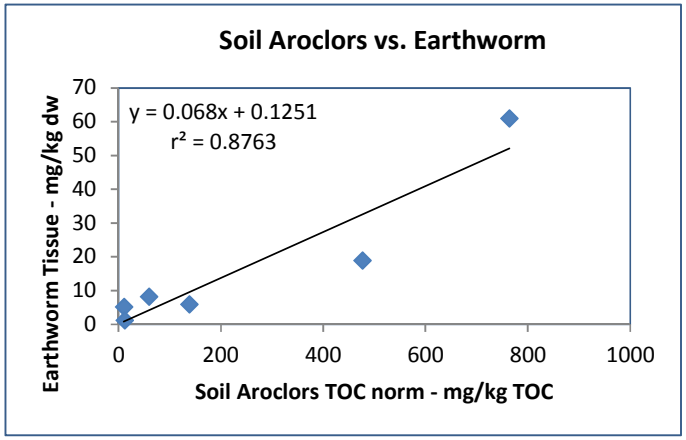
**PCB - Lumbriculus - Regression Analysis of Laboratory Bioaccumulation Data (Sediment Measured as Aroclors and Tissue Measured as Homologs)**

Solutia

FIGURE
**B-8**




◆ detected tissue concentration

**Notes:**
dw: dry weight
mg/kg: milligrams per kilogram
PCB: polychlorinated biphenyl
TOC: total organic carbon

Anniston PCB Site

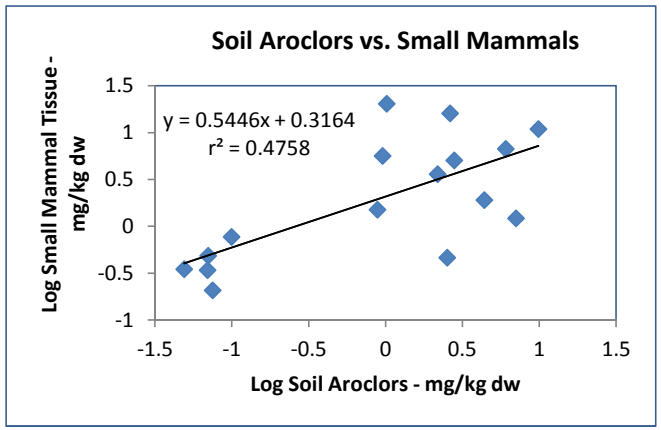
Anniston, Alabama

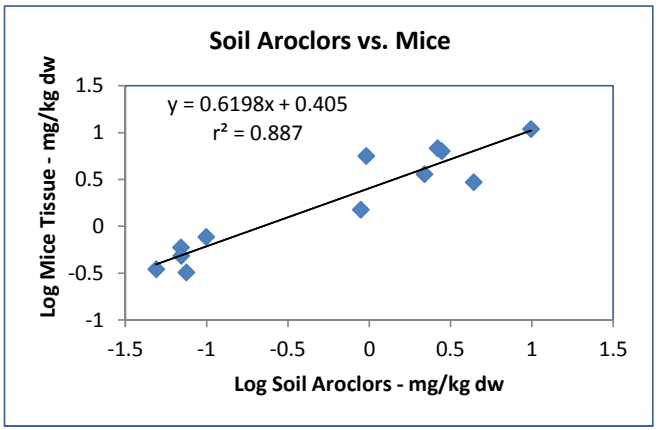
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

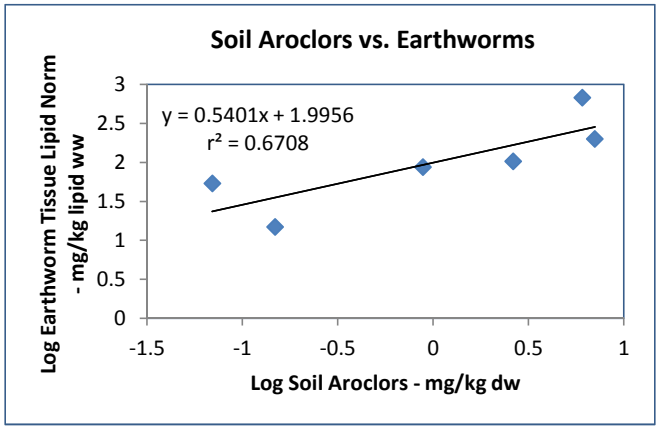
**Regression Plots of Soil PCB and Tissue PCB Correlations with $r^2$ Values > 0.3**

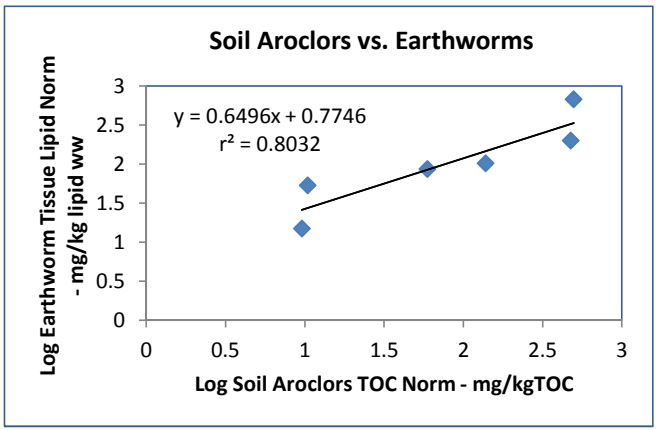
Solutia

**FIGURE**
**B-9**




◆ detected tissue concentration

**Notes:**
dw: dry weight
mg/kg: milligrams per kilogram
TOC: total organic carbon
PCB: polychlorinated biphenyl
ww: wet weight

Anniston PCB Site

Anniston, Alabama

**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

**Regression Plots of Log Soil PCB and Log Tissue PCB Correlations with $r^2$ Values > 0.3**

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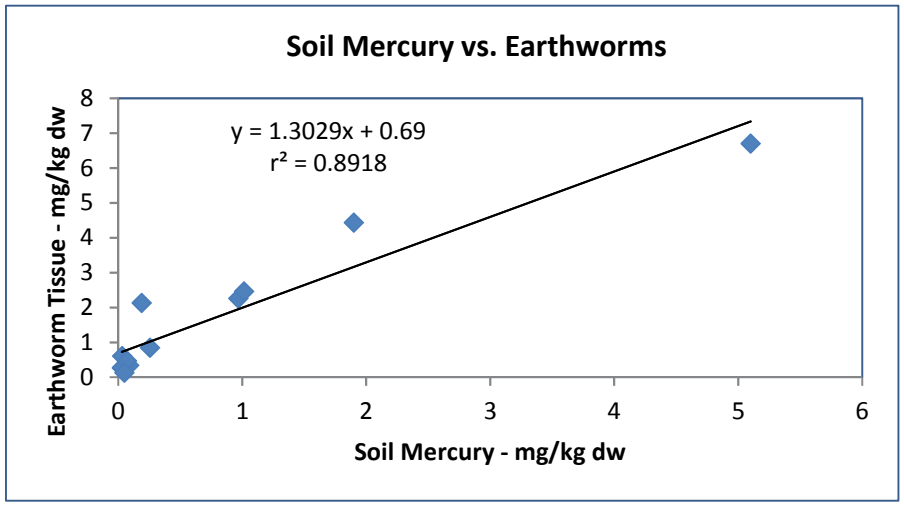
FIGURE
**B-10**




◆ detected tissue concentration

**Notes:**
dw: dry weight
mg/kg: milligrams per kilogram

Anniston PCB Site
Anniston, Alabama

**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

**Regression Plots of Soil Mercury and Tissue Mercury Correlations with $r^2$ Values > 0.3**

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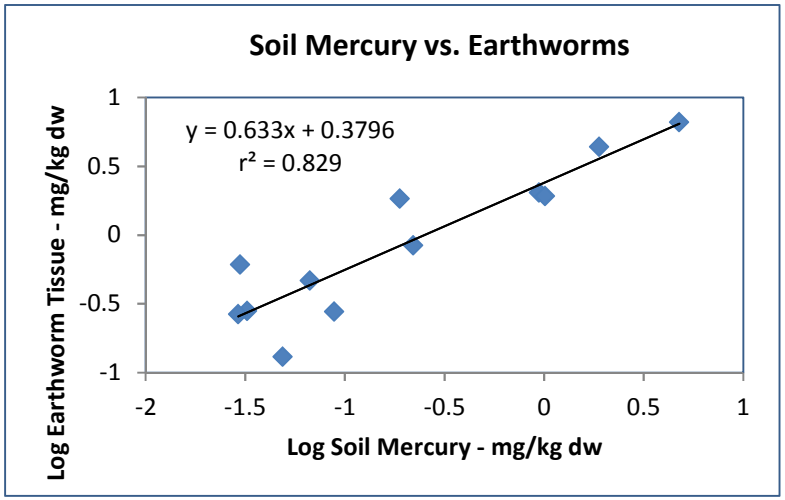
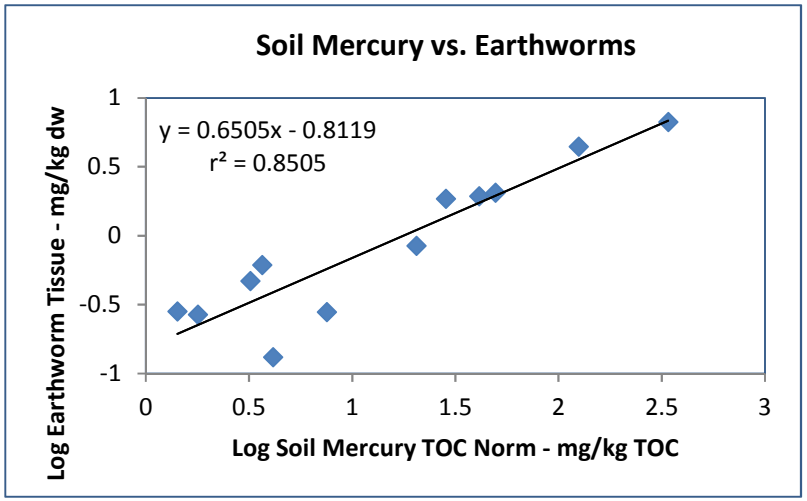
**FIGURE**
**B-11**




◆ detected tissue concentration

**Notes:**
dw: dry weight
mg/kg: milligrams per kilogram
TOC: total organic carbon

Anniston PCB Site

Anniston, Alabama

**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

**Regression Plots of Log Soil Mercury and Log Tissue Mercury Correlations with $r^2$ Values > 0.3**

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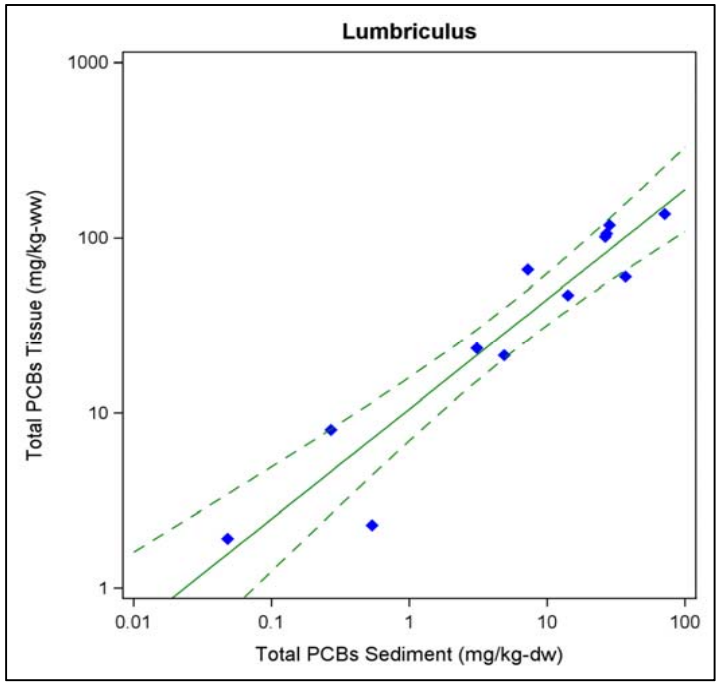
FIGURE
**B-12**




detected tissue concentration

selected BAF

**Notes:**
BAF: bioaccumulation factor
dw: dry weight
mg/kg: milligrams per kilogram
PCB: polychlorinated biphenyl
TOC: total organic carbon
ww: wet weight

Anniston PCB Site

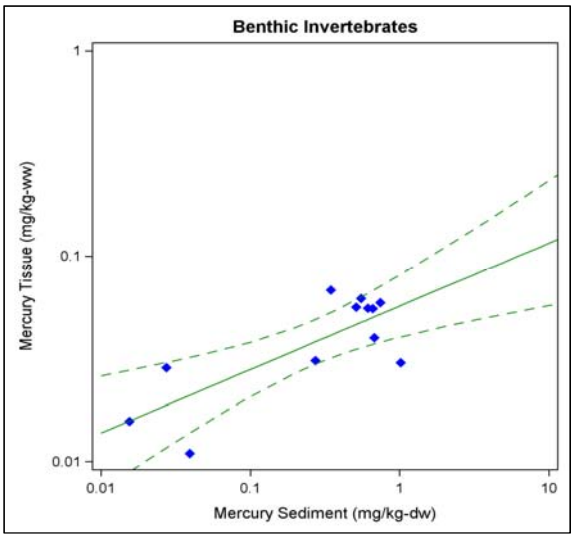
Anniston, Alabama

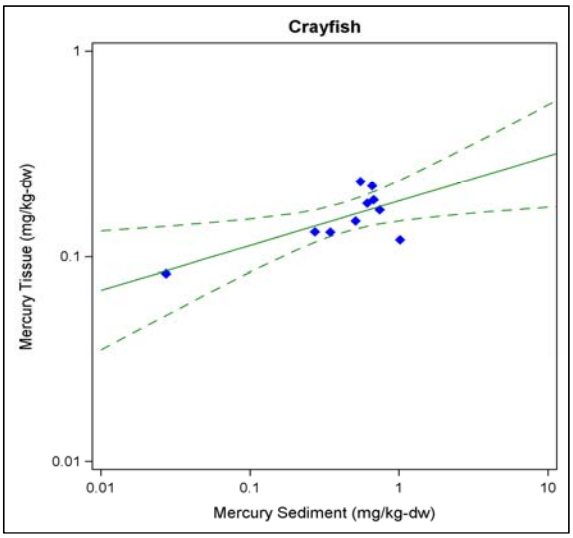
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

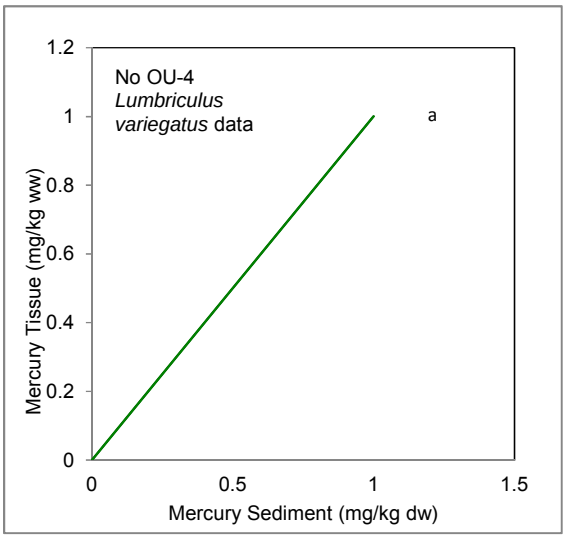
**Regression Plots for Selected Bioaccumulation Models for Sediment PCBs**

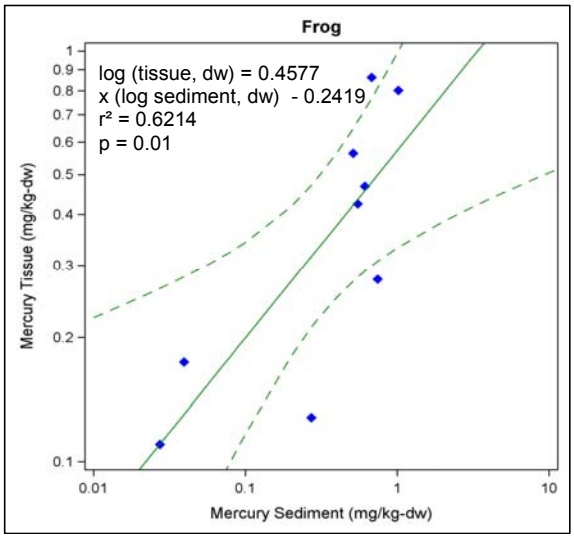
Solutia
Ingenuity Productivity Performance

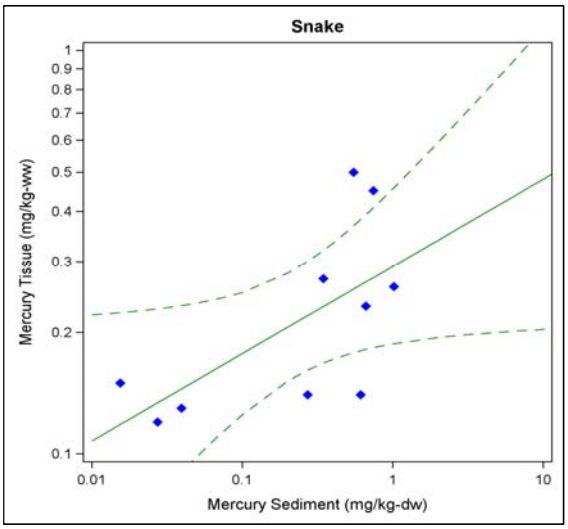
**FIGURE**
**B-13**




◆ detected tissue concentration

selected BAF

95% confidence interval

**Notes:**
BAF: bioaccumulation factor
dw: dry weight
mg/kg: milligrams per kilogram
a. *Lumbriculus variegatus* BAF = 1 (Gilmour et al. 2013)
b. Aquatic plants, emergent insects, molluscs, forage fish, bottom fish, predator fish, and all fish evaluated using median BAFs.

Anniston PCB Site

Anniston, Alabama

**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

**Summary of OU-4 Tissue Data and Selected Bioaccumulation Models for Sediment Mercury**

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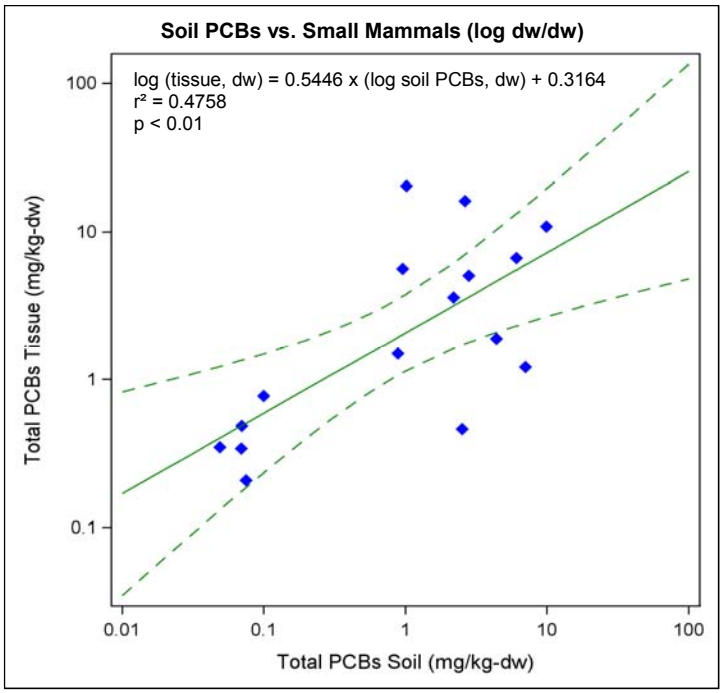
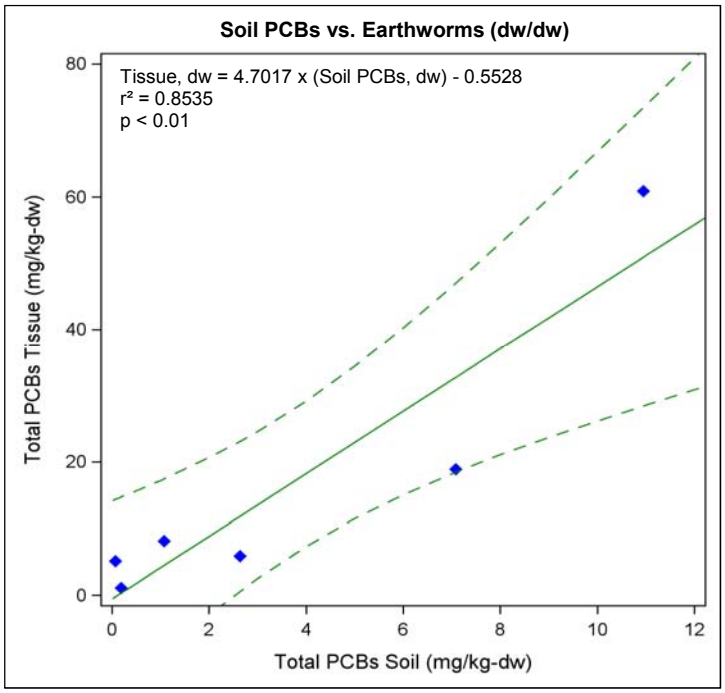
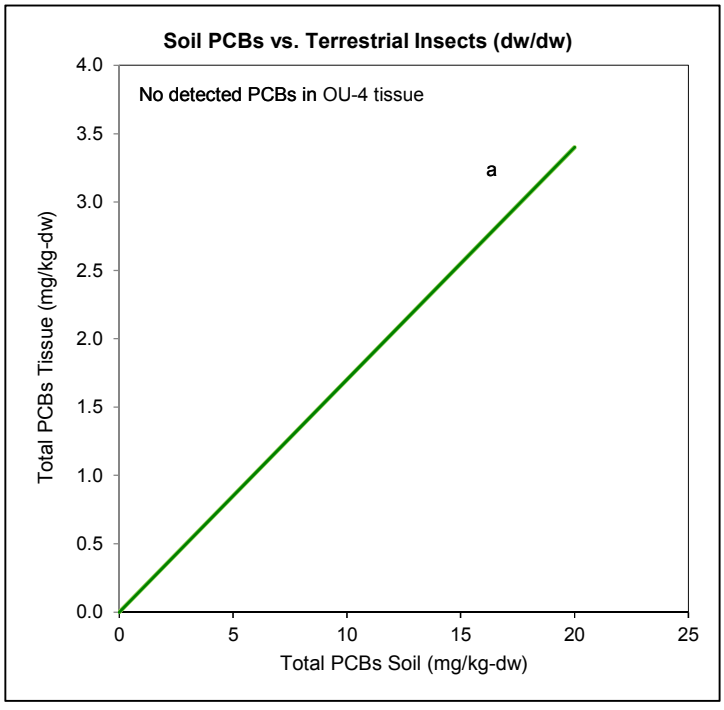
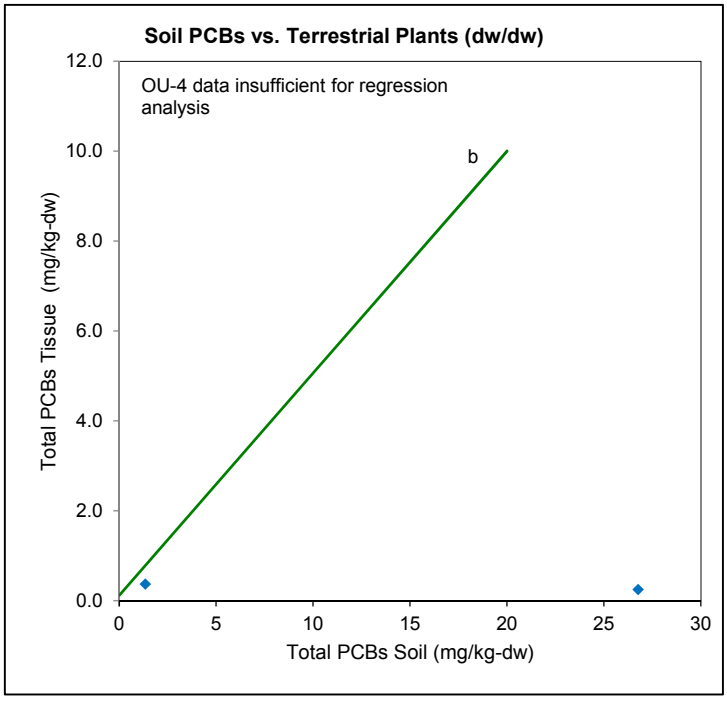
**FIGURE**
**B-14**




**Notes:**
BAF: bioaccumulation factor
dw: dry weight
mg/kg: milligrams per kilogram
ng/g: nanograms per gram
PCB: polychlorinated biphenyl
ww: wet weight

◆ detected tissue concentration
selected BAF
95% confidence interval

a. Terresrial Insect BAF = 0.17 (Blankenship et al. 2005)
b. Plant PCB regression (Ficko et al. 2013): plant wet weight (ng/g ww) = 0.1433 (soil ng/g dw) + 34.546

Anniston PCB Site
Anniston, Alabama
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**
**Summary of OU-4 Tissue Data and Selected Bioaccumulation Factors for Soil PCBs**

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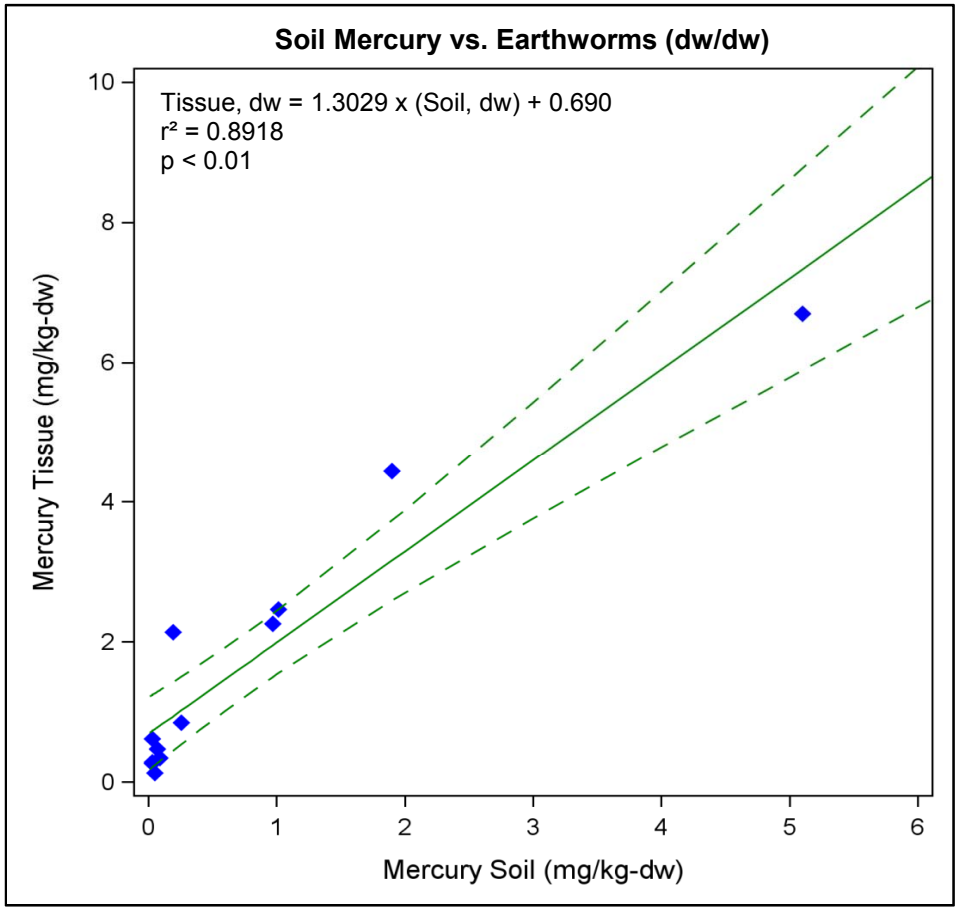
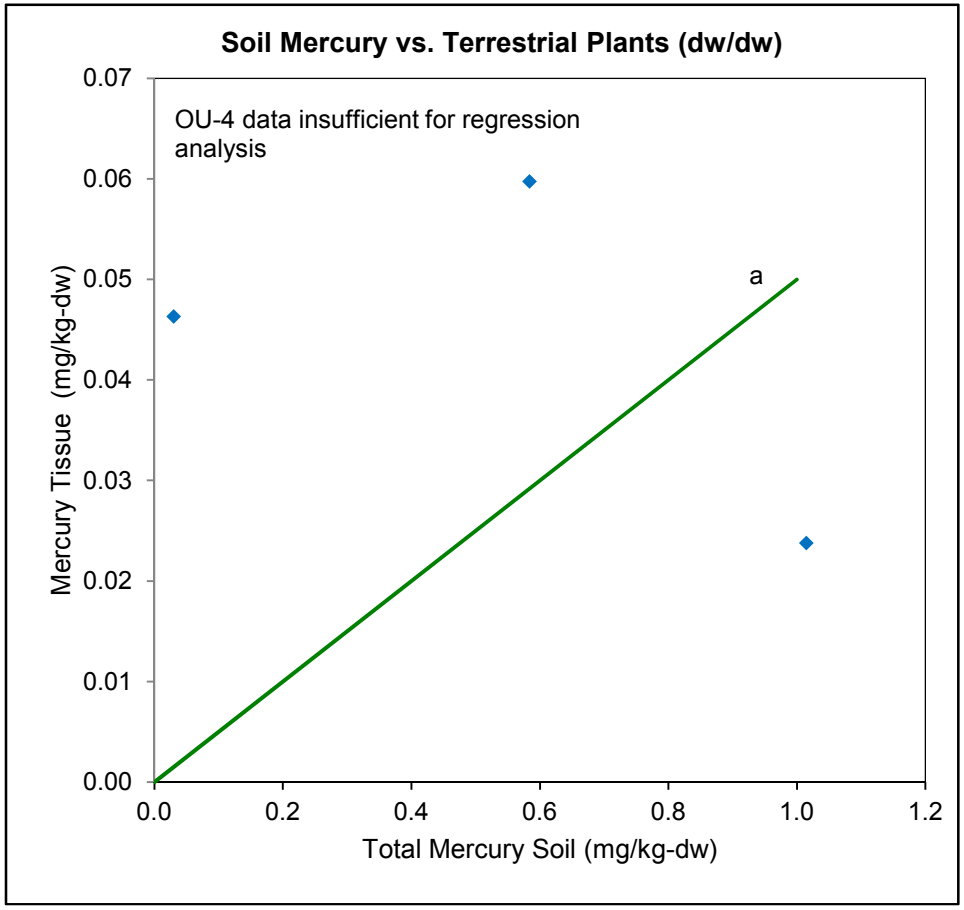
**FIGURE**
**B-15**




**Notes:**
BAF: bioaccumulation factor
dw: dry weight
mg/kg: milligrams per kilogram

a. Terresrial Insect BAF = 0.05 (Pant et al. 2011)

detected tissue concentration
selected BAF
95% confidence interval

Anniston PCB Site
Anniston, Alabama
**Baseline Ecological Risk Assessment for OU-4**
**Appendix B – Bioaccumulation Factor Development**

**Summary of OU-4 Tissue Data and Selected Bioaccumulation Factors for Soil Mercury**

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**FIGURE**
**B-16**

# ATTACHMENT 1

## Statistical Evaluation of Regression Analyses

Table B.1-1
Regression Statistics for Sediment PCB Analysis

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Sediment Homologs vs Aquatic Plants, dw

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.65 |
| R Square | 0.42 |
| Adjusted R Square | 0.27 |
| Standard Error | 1.12 |
| Observations | 6 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 3.546277908 | 3.546277908 | 2.850241981 | 0.17 |
| Residual | 4 | 4.976809592 | 1.244202398 | | |
| Total | 5 | 8.5230875 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | 0.679 | 0.977 | 0.695 | 0.525 | -2.032 | 3.390 | -2.032 | 3.390 |
| X Variable 1 | 2.044 | 1.211 | 1.688 | 0.167 | -1.317 | 5.405 | -1.317 | 5.405 |

Table B.1-1
Regression Statistics for Sediment PCB Analysis

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Sediment Homologs vs Aquatic Plant Normalized by Lipids, ww

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.67 |
| R Square | 0.45 |
| Adjusted R Square | 0.31 |
| Standard Error | 1.08 |
| Observations | 6 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 3.845961757 | 3.845961757 | 3.289166867 | 0.14 |
| Residual | 4 | 4.677125743 | 1.169281436 | | |
| Total | 5 | 8.5230875 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | 0.69603769 | 0.909172422 | 0.765572815 | 0.486607628 | -1.82822963 | 3.22030501 | -1.82822963 | 3.22030501 |
| X Variable 1 | 0.072049321 | 0.039727107 | 1.81360604 | 0.143942613 | -0.038250811 | 0.182349454 | -0.038250811 | 0.182349454 |

Table B.1-1
Regression Statistics for Sediment PCB Analysis

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Aroclor TOC Normal - dw vs Emergent Insects (Mixed only) Normalized by Lipids, ww

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.55 |
| R Square | 0.31 |
| Adjusted R Square | 0.17 |
| Standard Error | 99.45 |
| Observations | 7 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 21944.54088 | 21944.54088 | 2.218624486 | 0.20 |
| Residual | 5 | 49455.28417 | 9891.056834 | | |
| Total | 6 | 71399.82505 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | 32.03784037 | 141.6466902 | 0.226181355 | 0.830015746 | -332.0765684 | 396.1522492 | -332.0765684 | 396.1522492 |
| X Variable 1 | 24.45830489 | 16.42042727 | 1.489504779 | 0.196534439 | -17.75174719 | 66.66835697 | -17.75174719 | 66.66835697 |

Table B.1-1
Regression Statistics for Sediment PCB Analysis

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Sediment Aroclors Normalized by Fines vs. Benthic invertebrates, dw

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.620564719 |
| R Square | 0.39 |
| Adjusted R Square | 0.297257794 |
| Standard Error | 2.245162263 |
| Observations | 9 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 22.09853985 | 22.09853985 | 4.383975424 | 0.07 |
| Residual | 7 | 35.28527512 | 5.040753589 | | |
| Total | 8 | 57.38381498 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | 0.134803196 | 2.430182045 | 0.055470411 | 0.957313748 | -5.611664202 | 5.881270595 | -5.611664202 | 5.881270595 |
| X Variable 1 | 18.89654375 | 9.025023095 | 2.093794504 | 0.07455117 | -2.444244729 | 40.23733224 | -2.444244729 | 40.23733224 |

Table B.1-2
Regression Statistics for Sediment PCB Analysis (Log-transformed Data)

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Aroclor Fines Normal - dw vs Log (Benthic Invertebrates, ww)

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.51 |
| R Square | 0.26 |
| Adjusted R Square | 0.16 |
| Standard Error | 0.30 |
| Observations | 9 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 0.224636659 | 0.224636659 | 2.489539006 | 0.16 |
| Residual | 7 | 0.631625617 | 0.090232231 | | |
| Total | 8 | 0.856262276 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | 1.159822936 | 0.446952627 | 2.594957195 | 0.035686217 | 0.102947914 | 2.216697957 | 0.102947914 | 2.216697957 |
| X Variable 1 | 1.08857355 | 0.689919325 | 1.577827305 | 0.158612616 | -0.542826418 | 2.719973517 | -0.542826418 | 2.719973517 |

Table B.1-2
Regression Statistics for Sediment PCB Analysis (Log-transformed Data)

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Log (Sediment Homologs) vs log (Benthic Invertebrate Normalized by Lipids, ww)

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.61 |
| R Square | 0.37 |
| Adjusted R Square | 0.21 |
| Standard Error | 0.27 |
| Observations | 6 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 0.170127609 | 0.170127609 | 2.352349545 | 0.20 |
| Residual | 4 | 0.289289675 | 0.072322419 | | |
| Total | 5 | 0.459417283 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | -1.961268743 | 1.442405885 | -1.359720425 | 0.24551518 | -5.966029503 | 2.043492016 | -5.966029503 | 2.043492016 |
| X Variable 1 | 1.601961635 | 1.044482537 | 1.533737117 | 0.199874691 | -1.297986792 | 4.501910061 | -1.297986792 | 4.501910061 |

Table B.1-3
Regression Statistics for Sediment Mercury Analysis

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Sediment Mercury vs Frog, ww

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.7099896 |
| R Square | 0.5040852 |
| Adjusted R Square | 0.4332402 |
| Standard Error | 0.0496618 |
| Observations | 9 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 0.017548498 | 0.017548 | 7.115328 | 0.032117878 |
| Residual | 7 | 0.017264064 | 0.002466 | | |
| Total | 8 | 0.034812562 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | 0.0302009 | 0.030624003 | 0.986183 | 0.356896 | -0.04221338 | 0.1026151 | -0.0422134 | 0.102615139 |
| X Variable 1 | 0.1171223 | 0.043907828 | 2.667457 | 0.032118 | 0.01329674 | 0.2209478 | 0.01329674 | 0.220947769 |

Table B.1-3
Regression Statistics for Sediment Mercury Analysis

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Mercury in Sediment Normalized by Fines, % vs Frog, ww

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.7246483 |
| R Square | 0.5251151 |
| Adjusted R Square | 0.4572744 |
| Standard Error | 0.0485974 |
| Observations | 9 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 0.018280602 | 0.018281 | 7.740414 | 0.027213531 |
| Residual | 7 | 0.01653196 | 0.002362 | | |
| Total | 8 | 0.034812562 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | 0.0580225 | 0.021876071 | 2.652325 | 0.032831 | 0.00629377 | 0.1097511 | 0.00629377 | 0.109751146 |
| X Variable 1 | 0.0129093 | 0.004640035 | 2.78216 | 0.027214 | 0.00193738 | 0.0238813 | 0.00193738 | 0.023881258 |

Table B.1-4
Regression Statistics for Sediment Mercury Analysis (Log-transformed Data)

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Log (Sediment Mercury ) vs Log (Benthic Invertebrates, ww)

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.769623258 |
| R Square | 0.592319959 |
| Adjusted R Square | 0.551551955 |
| Standard Error | 0.169139219 |
| Observations | 12 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 0.415647867 | 0.4156479 | 14.5290399 | 0.00341969 |
| Residual | 10 | 0.286080753 | 0.0286081 | | |
| Total | 11 | 0.70172862 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | -1.244662865 | 0.068073337 | -18.284146 | 5.14844E-09 | -1.396339712 | -1.092986018 | -1.396339712 | -1.092986018 |
| X Variable 1 | 0.308337448 | 0.080892418 | 3.8116978 | 0.00341969 | 0.128097909 | 0.488576987 | 0.128097909 | 0.488576987 |

Table B.1-4
Regression Statistics for Sediment Mercury Analysis (Log-transformed Data)

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Log (Sediment Mercury) vs Log (Crayfish, dw)

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.717384419 |
| R Square | 0.514640404 |
| Adjusted R Square | 0.453970455 |
| Standard Error | 0.100319481 |
| Observations | 10 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 0.085369119 | 0.0853691 | 8.482624572 | 0.019514364 |
| Residual | 8 | 0.080511986 | 0.010064 | | |
| Total | 9 | 0.165881105 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | -0.72715441 | 0.042760444 | -17.005305 | 1.45167E-07 | -0.825760172 | -0.628548649 | -0.825760172 | -0.628548649 |
| X Variable 1 | 0.218490229 | 0.075018245 | 2.9124946 | 0.019514364 | 0.045497847 | 0.391482611 | 0.045497847 | 0.391482611 |

Table B.1-4
Regression Statistics for Sediment Mercury Analysis (Log-transformed Data)

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Log (Mercury in Sediment Normalized by Fines, %) vs Log (Frog, dw)

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.937097553 |
| R Square | 0.878151823 |
| Adjusted R Square | 0.860744941 |
| Standard Error | 0.124491778 |
| Observations | 9 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 0.781861723 | 0.7818617 | 50.44854126 | 0.000193201 |
| Residual | 7 | 0.10848742 | 0.0154982 | | |
| Total | 8 | 0.890349143 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | -0.551253547 | 0.042857273 | -12.862544 | 3.98541E-06 | -0.652594895 | -0.449912199 | -0.652594895 | -0.449912199 |
| X Variable 1 | 0.634410326 | 0.089319429 | 7.1027137 | 0.000193201 | 0.423203438 | 0.845617213 | 0.423203438 | 0.845617213 |

Table B.1-4
Regression Statistics for Sediment Mercury Analysis (Log-transformed Data)

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Log (Sediment Mercury) vs Log (Frog, dw)

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.788283077 |
| R Square | 0.621390209 |
| Adjusted R Square | 0.567303096 |
| Standard Error | 0.219445699 |
| Observations | 9 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 0.55325424 | 0.5532542 | 11.48869251 | 0.011607381 |
| Residual | 7 | 0.337094903 | 0.0481564 | | |
| Total | 8 | 0.890349143 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | -0.24193224 | 0.100429472 | -2.4089765 | 0.046844356 | -0.479410205 | -0.004454276 | -0.479410205 | -0.004454276 |
| X Variable 1 | 0.457744538 | 0.13504791 | 3.3894974 | 0.011607381 | 0.138406975 | 0.777082102 | 0.138406975 | 0.777082102 |

Table B.1-4
Regression Statistics for Sediment Mercury Analysis (Log-transformed Data)

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Log (Sediment Mercury) vs Log (Snake, ww)

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.643160102 |
| R Square | 0.413654917 |
| Adjusted R Square | 0.340361782 |
| Standard Error | 0.183806845 |
| Observations | 10 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 0.190676974 | 0.190677 | 5.643842569 | 0.04484724 |
| Residual | 8 | 0.27027965 | 0.033785 | | |
| Total | 9 | 0.460956624 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | -0.534654538 | 0.083529568 | -6.4007818 | 0.000208959 | -0.727274068 | -0.342035008 | -0.727274068 | -0.342035008 |
| X Variable 1 | 0.216712076 | 0.091221176 | 2.3756773 | 0.04484724 | 0.006355667 | 0.427068485 | 0.006355667 | 0.427068485 |

Table B.1-4
Regression Statistics for Sediment Mercury Analysis (Log-transformed Data)

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Log (Mercury in Sediment Normalized by Fines, %) vs Log (Benthic Invertebrates, ww)

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.65246421 |
| R Square | 0.425709545 |
| Adjusted R Square | 0.3682805 |
| Standard Error | 0.200747615 |
| Observations | 12 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 0.298732572 | 0.2987326 | 7.412791584 | 0.021462692 |
| Residual | 10 | 0.402996048 | 0.0402996 | | |
| Total | 11 | 0.70172862 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | -1.420055397 | 0.057984914 | -24.490083 | 2.93954E-10 | -1.549253837 | -1.290856956 | -1.549253837 | -1.290856956 |
| X Variable 1 | 0.263097449 | 0.096633062 | 2.7226442 | 0.021462692 | 0.047785569 | 0.478409329 | 0.047785569 | 0.478409329 |

Table B.1-5
Regression Statistics for Soil PCB Analysis

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Soil Aroclors vs Small Mammal Mice, dw

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.823949548 |
| R Square | 0.678892857 |
| Adjusted R Square | 0.646782143 |
| Standard Error | 2.045946621 |
| Observations | 12 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 88.49930712 | 88.49930712 | 21.14225337 | 0.00098302 |
| Residual | 10 | 41.85897576 | 4.185897576 | | |
| Total | 11 | 130.3582829 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | 1.855664072 | 0.677150468 | 2.740401373 | 0.020818403 | 0.346878806 | 3.364449338 | 0.346878806 | 3.364449338 |
| X Variable 1 | 0.381423527 | 0.082952951 | 4.598070614 | 0.00098302 | 0.196592833 | 0.56625422 | 0.196592833 | 0.56625422 |

Table B.1-5
Regression Statistics for Soil PCB Analysis

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Soil Aroclors vs Earthworms, dw

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.923868907 |
| R Square | 0.853533757 |
| Adjusted R Square | 0.816917197 |
| Standard Error | 9.614040631 |
| Observations | 6 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 2154.542469 | 2154.542469 | 23.31004719 | 0.008473289 |
| Residual | 4 | 369.719109 | 92.42977725 | | |
| Total | 5 | 2524.261578 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | -0.552783157 | 5.305520949 | -0.104190175 | 0.922033592 | -15.28327083 | 14.17770451 | -15.28327083 | 14.17770451 |
| X Variable 1 | 4.701696836 | 0.973829769 | 4.828047969 | 0.008473289 | 1.997911942 | 7.405481731 | 1.997911942 | 7.405481731 |

Table B.1-5
Regression Statistics for Soil PCB Analysis

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Aroclor in Soil Normalized by TOC, % vs Earthworms, dw

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.936094011 |
| R Square | 0.876271997 |
| Adjusted R Square | 0.845339997 |
| Standard Error | 8.836314894 |
| Observations | 6 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 2211.939734 | 2211.939734 | 28.32897897 | 0.005995468 |
| Residual | 4 | 312.3218436 | 78.0804609 | | |
| Total | 5 | 2524.261578 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | 0.12507875 | 4.763472658 | 0.026257892 | 0.980309409 | -13.1004416 | 13.3505991 | -13.1004416 | 13.3505991 |
| X Variable 1 | 0.068020017 | 0.012779718 | 5.322497437 | 0.005995468 | 0.032537831 | 0.103502203 | 0.032537831 | 0.103502203 |

Table B.1-6
Regression Statistics for Soil PCB Analysis (Log-transformed Data)

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Log Soil Aroclors vs Log Small Mammal, dw

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.689805526 |
| R Square | 0.475831664 |
| Adjusted R Square | 0.438391069 |
| Standard Error | 0.482981477 |
| Observations | 16 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 2.964637123 | 2.964637123 | 12.70897696 | 0.003107208 |
| Residual | 14 | 3.265795497 | 0.233271107 | | |
| Total | 15 | 6.230432619 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | 0.316350955 | 0.121076786 | 2.61281263 | 0.020460483 | 0.056667077 | 0.576034834 | 0.056667077 | 0.576034834 |
| X Variable 1 | 0.544590075 | 0.15276168 | 3.564965211 | 0.003107208 | 0.216948857 | 0.872231293 | 0.216948857 | 0.872231293 |

Table B.1-6
Regression Statistics for Soil PCB Analysis (Log-transformed Data)

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Log Soil Aroclors vs Log Small Mammal Mice, dw

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.941780395 |
| R Square | 0.886950312 |
| Adjusted R Square | 0.875645343 |
| Standard Error | 0.19569708 |
| Observations | 12 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 3.004682665 | 3.004682665 | 78.45667898 | 4.7751E-06 |
| Residual | 10 | 0.382973471 | 0.038297347 | | |
| Total | 11 | 3.387656136 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | 0.405002872 | 0.059097849 | 6.8530899 | 4.44164E-05 | 0.273324659 | 0.536681085 | 0.273324659 | 0.536681085 |
| X Variable 1 | 0.619814845 | 0.069975662 | 8.857577489 | 4.7751E-06 | 0.463899355 | 0.775730336 | 0.463899355 | 0.775730336 |

Table B.1-6
Regression Statistics for Soil PCB Analysis (Log-transformed Data)

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Log Soil Aroclors vs Log Earthworms Normalized by Lipids, dw

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.84092517 |
| R Square | 0.707155141 |
| Adjusted R Square | 0.633943926 |
| Standard Error | 0.334706845 |
| Observations | 6 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 1.082097213 | 1.082097213 | 9.659109501 | 0.035944524 |
| Residual | 4 | 0.448114689 | 0.112028672 | | |
| Total | 5 | 1.530211903 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | 2.56985593 | 0.136643957 | 18.80694902 | 4.70691E-05 | 2.190471485 | 2.949240375 | 2.190471485 | 2.949240375 |
| X Variable 1 | 0.553025247 | 0.177941159 | 3.107910794 | 0.035944524 | 0.058981389 | 1.047069106 | 0.058981389 | 1.047069106 |

Table B.1-6
Regression Statistics for Soil PCB Analysis (Log-transformed Data)

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

Log Aroclor in Soil Normalized by TOC, % vs Log Earthworms Normalized by Lipids, dw

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.911153273 |
| R Square | 0.830200287 |
| Adjusted R Square | 0.787750359 |
| Standard Error | 0.254867388 |
| Observations | 6 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 1.270382361 | 1.270382361 | 19.55716588 | 0.011489945 |
| Residual | 4 | 0.259829542 | 0.064957385 | | |
| Total | 5 | 1.530211903 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | 1.331826364 | 0.298892703 | 4.455867772 | 0.011195912 | 0.501967181 | 2.161685548 | 0.501967181 | 2.161685548 |
| X Variable 1 | 0.658684916 | 0.148944599 | 4.422348458 | 0.011489945 | 0.245148414 | 1.072221417 | 0.245148414 | 1.072221417 |

Table B.1-7
Regression Statistics for Soil Mercury Analysis

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

A. Mercury, dw vs. Earthworms, dw

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.942147016 |
| R Square | 0.887640999 |
| Adjusted R Square | 0.871589714 |
| Standard Error | 0.774860206 |
| Observations | 9 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 33.20276426 | 33.2027643 | 55.300305 | 0.000144875 |
| Residual | 7 | 4.202858372 | 0.60040834 | | |
| Total | 8 | 37.40562263 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | 0.881699235 | 0.31446289 | 2.80382603 | 0.02637883 | 0.13811266 | 1.62528581 | 0.13811266 | 1.62528581 |
| X Variable 1 | 1.245636366 | 0.1675049 | 7.43641748 | 0.00014487 | 0.849550217 | 1.641722514 | 0.849550217 | 1.641722514 |

Table B.1-8
Regression Statistics for Soil Mercury Analysis (Log-transformed Data)

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

A. Log Mercury dw vs. Log Mercury Earthworms, dw

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.873825665 |
| R Square | 0.763571293 |
| Adjusted R Square | 0.729795763 |
| Standard Error | 0.286589448 |
| Observations | 9 |

ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 1.856811499 | 1.8568115 | 22.607234 | 0.002072156 |
| Residual | 7 | 0.574934583 | 0.0821335 | | |
| Total | 8 | 2.431746082 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | 0.395649117 | 0.113678057 | 3.4804353 | 0.0102602 | 0.126843227 | 0.664455007 | 0.126843227 | 0.664455007 |
| X Variable 1 | 0.648943915 | 0.136484537 | 4.7547065 | 0.0020722 | 0.326209268 | 0.971678562 | 0.326209268 | 0.971678562 |

Table B.1-8
Regression Statistics for Soil Mercury Analysis (Log-transformed Data)

Baseline Ecological Risk Assessment for OU-4
Anniston PCB Site, Anniston, Alabama

B. Log Mercury TOC Normal vs. Log Mercury Earthworms, dw

SUMMARY OUTPUT

| *Regression Statistics* | |
|---|---|
| Multiple R | 0.921557416 |
| R Square | 0.849268072 |
| Adjusted R Square | 0.827734939 |
| Standard Error | 0.228829873 |
| Observations | 9 |

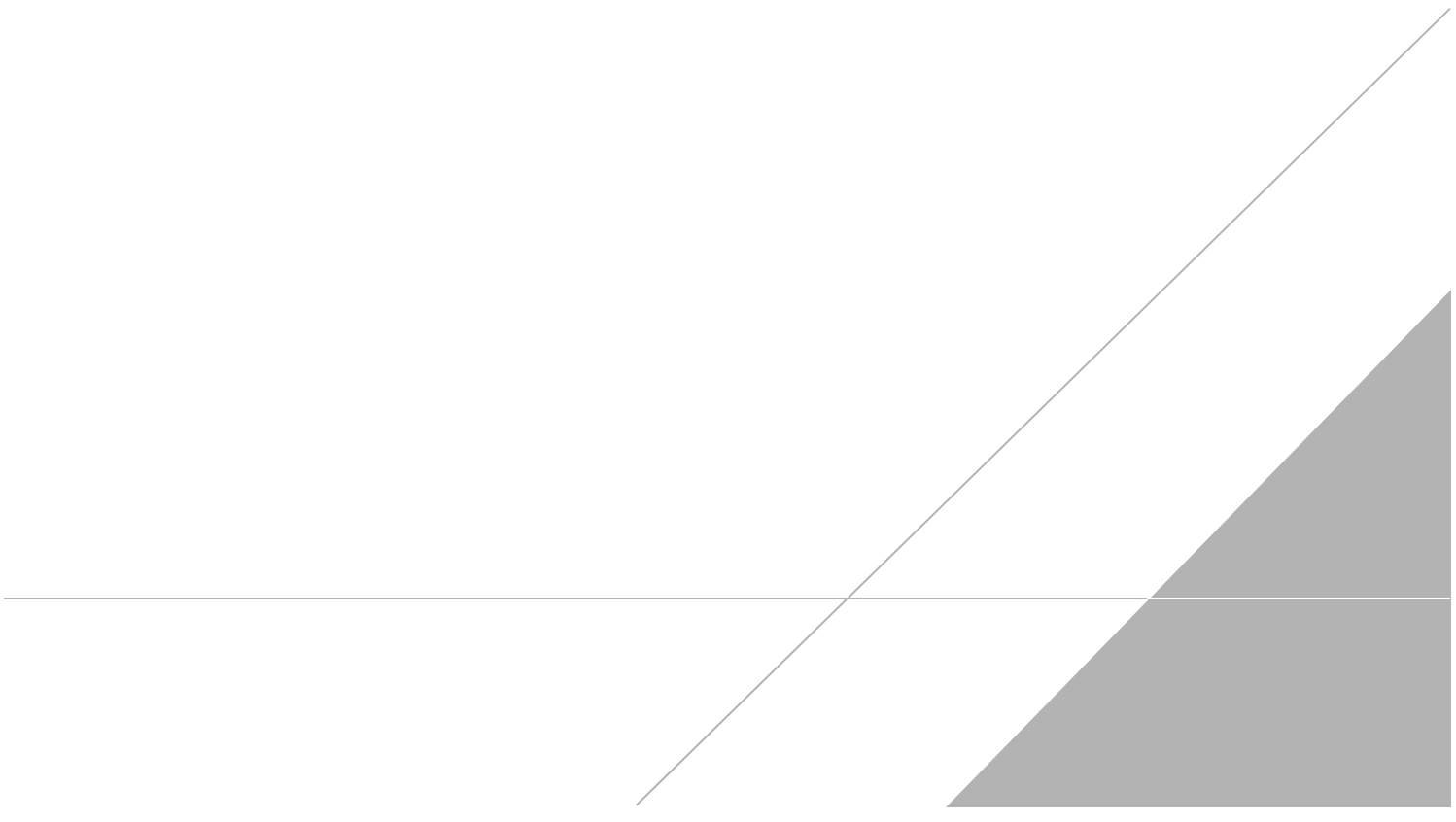
ANOVA

| | *df* | *SS* | *MS* | *F* | *Significance F* |
|---|---|---|---|---|---|
| Regression | 1 | 2.065204306 | 2.0652043 | 39.440061 | 0.000411978 |
| Residual | 7 | 0.366541776 | 0.0523631 | | |
| Total | 8 | 2.431746082 | | | |

| | *Coefficients* | *Standard Error* | *t Stat* | *P-value* | *Lower 95%* | *Upper 95%* | *Lower 95.0%* | *Upper 95.0%* |
|---|---|---|---|---|---|---|---|---|
| Intercept | -0.987804154 | 0.189654367 | -5.208444 | 0.0012414 | -1.436265471 | -0.539342838 | -1.436265471 | -0.539342838 |
| X Variable 1 | 0.766171612 | 0.121999279 | 6.2801323 | 0.000412 | 0.477689157 | 1.054654067 | 0.477689157 | 1.054654067 |

# APPENDIX C

## Analysis of Operable Unit 4 Sediment Toxicity Test Results and Development of Site-Specific Risk-Based Concentrations for Polychlorinated Biphenyls in Sediment



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# BASELINE ECOLOGICAL RISK ASSESSMENT FOR OPERABLE UNIT 4

## Appendix C - Analysis of Operable Unit-4 Sediment Toxicity Test Results and Development of Site-Specific Risk-Based Concentrations for Polychlorinated Biphenyls in Sediment

Anniston PCB Site, Anniston, Alabama

October 2016

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BASELINE ECOLOGICAL RISK ASSESSMENT FOR OPERABLE UNIT 4
APPENDIX C – ANALYSIS FOR OPERABLE UNIT-4 SEDIMENT TOXICITY TEST RESULTS AND DEVELOPMENT OF SITE-SPECIFIC RISK-BASED CONCENTRATIONS FOR POLYCHLORINATED BIPHENYLS IN SEDIMENT
ANNISTON PCB SITE, ANNISTON, ALABAMA

# TABLES


Table C-1 PCB-Aroclor Concentration Thresholds for Impairment of *Chironomus dilutus* and *Hyalella azteca* Endpoints in Toxicity Tests with OU-4 Sediments

Table C-2 Variability Among Toxicity-Endpoint Responses in the Laboratory-Control Sediments Tested in the Three Batches of OU-4 Sediments from the Anniston PCB Site

Table C-3 Regression Coefficients for the Concentration-Response Curves in Figures C-2 and C-3

Table C-4 Summary of Total PCB Homolog Results in Porewater Samples Estimated Using Solid Phase Microextraction (µg/L)

Table C-5 Acid Volatile Sulfide and Simultaneously Extracted Metals in Sediments Evaluated During Toxicity Testing

Table C-6 Regression Coefficients for the Concentration-Response Curves in Figures C-4 and C-5 and Concentrations of Mercury Predicted to Decrease Growth, Survival, or Reproduction Compared to the Reference Envelope

Table C-7 Concentrations of Total PCB Aroclors ($tPCB_A$) Predicted to Decrease Growth, Survival, or Reproduction by *Chironomus dilutus* or *Hyalella azteca* Exposed to OU-4 Sediments from the Anniston PCB Site by 0, 10, 20, and 50% Relative to the Lowest Reference-Sediment Response

Table C-8 Independent and Averaged *Hyalella azteca* 42-day Young/Female (Normalized to 42-day Survival), for the Six Sediments that were Tested in both the USGS and the USACE Labs during Cycle 1a

Table C-9 Nonlinear Regression Fits for *Hyalella azteca* 42-day Young/Female (Normalized to 42-day Survival) Fitted to all USGS and USACE Sediment Data from Cycles 1a and 1b, with and without the Results for the Duplicate Sediments Averaged

Table C-10 Inhibition Concentrations (Relative to the Bottom of the Reference Envelope) in Anniston PCB Sediment Toxicity Tests, for *Hyalella azteca* 42-day Young/Female (Normalized to 42-day Survival) with and without the Results for the Duplicate Sediments Averaged

Table C-11 Comparison of EC0* and EC10* to Threshold Values Reported by Ingersoll et al. 2014, for Sensitive Endpoints


# FIGURES


Figure C-1 Relationship Between Total PCB Homolog ($tPCB_H$) and Total PCB Aroclor ($tPCB_A$) Concentrations in OU-4 Sediments Collected for Toxicity Testing

Figure C-2a-c Response vs. Dry Weight-Normalized Total PCB Concentration (Sum of Aroclors) in OU-4 Sediment for *Chironomus dilutus* Toxicity Tests

Figure C-3a-c Response vs. Dry Weight-Normalized Total PCB Concentration (Sum of Aroclors) in OU-4 Sediment for *Hyalella azteca* Toxicity Tests

Figures C-4a-c Response vs. Dry Weight-Normalized Mercury Concentration in OU-4 Sediment for *Chironomus dilutus* Toxicity Tests

Figures C-5a-c Response vs. Dry Weight-Normalized Mercury Concentration in OU-4 Sediment for *Hyalella azteca* Toxicity Tests

# ATTACHMENT

Attachment 1 Analytical Results for Acid Volatile Sulfide/Simultaneously Extractable Metals (AVS/SEM) and Porewater Data Collected During the OU-4 Sediment Toxicity and Bioaccumulation Tests (as Provided to Arcadis by USGS CERC)

# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| AVS | acid volatile sulfide |
| BERA | baseline ecological risk assessment |
| BTV | background threshold value |
| CERC | Columbia Environmental Research Center |
| COPC | constituent of potential concern |
| CV | coefficient of variation |
| EC0 | effect concentration associated with the average response in the reference envelope |
| EC* | effect concentration associated with 0, 10, 20, and 50 percent impairment beyond the lower limit of each reference envelope |
| $f_{OC}$ | fraction of sediment organic carbon |
| ERDC | Engineer Research and Development Center |
| mg/kg | milligrams per kilogram |
| mg tPCB/kg | milligrams of tPCB per kilogram |
| OU-4 | Operable Unit 4 |
| PAH | polycyclic aromatic hydrocarbon |
| PCB | polychlorinated biphenyl |
| PEC | probable effect concentration |
| SEM | simultaneously extractable metals |
| TOC | total organic carbon |
| tPCB | total polychlorinated biphenyl |
| $tPCB_A$ | total polychlorinated biphenyl Aroclor |
| $tPCB_H$ | total polychlorinated biphenyl homolog |
| $TT_{HR}$ | toxicity threshold high range |
| $TT_{LR}$ | toxicity threshold low range |
| USACE | United States Army Corps of Engineers |
| USEPA | United States Environmental Protection Agency |
| USGS | United States Geological Survey |
| °C | degrees Celsius |

BASELINE ECOLOGICAL RISK ASSESSMENT FOR OPERABLE UNIT 4
APPENDIX C – ANALYSIS FOR OPERABLE UNIT-4 SEDIMENT TOXICITY TEST RESULTS AND DEVELOPMENT OF SITE-SPECIFIC RISK-BASED CONCENTRATIONS FOR POLYCHLORINATED BIPHENYLS IN SEDIMENT
ANNISTON PCB SITE, ANNISTON, ALABAMA

# 1 INTRODUCTION

This *Analysis for Operable Unit 4 Sediment Toxicity Test Results and Development of Site-Specific Risk-Based Concentrations for Polychlorinated Biphenyls in Sediment* is provided as Appendix C to the Baseline Ecological Risk Assessment for Operable Unit 4 (OU-4 BERA) of the Anniston Polychlorinated Biphenyl (PCB) Site, located in Anniston, Alabama. This appendix describes the sediment toxicity tests conducted to provide information about the site-specific effects of PCBs in OU-4 sediments on benthic invertebrates. Specifically, the results of the toxicity tests and the methodology used to develop site-specific toxicity values for PCBs that are protective of benthic invertebrate communities that may be present in OU-4 sediments are presented along with an evaluation of the relationships between mercury and toxicity endpoints.

# 2 METHODS

This section discusses the study objective and methods, sediment collection and processing approach, toxicity tests, chemical analyses, and data analyses.

## 2.1 Overview

The objective of the study was to develop concentration-response relationships for prediction of chronic toxicity to benthic invertebrates in OU-4 sediments that might be caused by PCBs and other constituents of potential concern (COPCs). Therefore, candidate sediments were selected to span a wide range of combinations of total polychlorinated biphenyl (tPCB) and organic carbon concentrations instead of randomly sampling the OU-4 sediments. The six targeted bins of organic carbon-normalized PCB concentrations (expressed as milligrams of tPCB per kilogram [mg tPCB/kg] organic carbon) were: less than 100; 100 to 500; 501 to 1,000; 1,001 to 5,000; 5,001 to 10,000; and greater than 10,000.

To test multiple sediments within each concentration bin, a total of 32 sediment samples was collected from various depths at six OU-4 locations (26 sediment samples) and from an upstream reference location (six sediment samples) on Choccolocco Creek approximately 3 kilometers upstream from the OU-4 boundary. The samples with the highest tPCB concentrations above were collected from a backwater area near the confluence of Snow Creek and Choccolocco Creek that had stable sediments and is the only location in OU-4 that contains such high concentrations. Because the reference sediments were collected well upstream from the confluence with Snow Creek, they do not reflect the background signal of urban runoff and, therefore, from a site perspective, do not constitute true reference samples.

Specific details of the analyses and methods employed during the testing program and the sediment toxicity and laboratory bioaccumulation testing data are presented in Ingersoll et al. (2014). The sediments were chemically characterized, and chronic toxicity tests were conducted with two benthic macroinvertebrates (*Chironomus dilutus* [a freshwater midge] and *Hyalella azteca* [a freshwater amphipod]) exposed to the sediments. A variety of survival, growth, and reproduction endpoints were monitored in the toxicity tests (shown in Table C-1) and sigmoid concentration-response relationships between the endpoints and tPCB concentration in the sediment were fit to the data. Additionally, concentrations of non-PCB COPCs in the sediments were compared to screening-level concentrations to determine if additional variables should be added as predictors in the concentration-response relationships.

Reference envelopes were calculated for each toxicity endpoint. A range of toxicity thresholds and background threshold values (BTVs) were calculated based on the results of the sediment testing. Specifically, sediment PCB concentrations associated with 0, 10, 20, and 50 percent impairment beyond the lower limit of each reference envelope (effect concentration [EC*] values) and sediment PCB concentrations associated with the average response in the reference envelope (effect concentration [EC0] value) were calculated. In addition, BTVs for sediment PCB concentrations were calculated using statistical approaches to estimate the lower bound of the reference envelope. The sediment toxicity testing program and details of sediment toxicity and background values are discussed below.

## 2.2 Sediment Collection and Processing

Sediment samples were collected by the United States Geological Survey (USGS) and the United States Army Corps of Engineers (USACE) between August 18 and 23, 2010 (Ingersoll et al. 2014). At each sampling location, a Lexan® tube was hand-pushed into the sediment to the desired depth. Cores that did not remain intact were discarded and the sediment depth was resampled. For each depth increment at each sample location, a minimum of 16 liters of sediment was collected and composited in high-density polyethylene buckets. The composited samples were stored at 4 degrees Celsius (°C) until, within 24 hours of sampling, they were sieved through a 2-millimeter stainless steel or brass sieve. The sediment that passed through the sieve ranged from 64 to 99 percent by weight of the total sediment sieved and was typically greater than 75 percent by weight.

Sieved samples were then shipped under refrigeration to the USGS's Columbia Environmental Research Center (CERC) in Columbia, Missouri, where they were stored at 4 °C in the dark. The sediments were homogenized and sub-sampled for initial analyses of PCB Aroclor and total organic carbon (TOC) concentrations, and preliminary 10-day lethality tests were conducted with *H. azteca* at the CERC. Results of the Aroclor and TOC analyses and the lethality tests were used to select sediment samples for subsequent rounds of chronic toxicity tests.

## 2.3 Toxicity Tests

Because of the large number of sediments to be tested, the chronic toxicity tests were conducted in three separate batches during two rounds of testing in two laboratories – the CERC and the USACE's Engineer Research and Development Center (ERDC) in Vicksburg, Mississippi (Ingersoll et al. 2014). Sediments tested at the ERDC were transported under refrigeration from the CERC, and stored at 4 °C in the dark.

The definitive chronic toxicity tests were conducted in two cycles (designated 1a and 1b). Cycle 1a started during the week of November 1, 2010 and Cycle 1b started during the week of January 17, 2011. One control, one reference, and 10 OU-4 sediment samples (containing intermediate to high concentrations of tPCBs) were tested in Cycle 1a. In Cycle 1b, one control, the remaining five reference sediment samples, and 10 additional OU-4 sediment samples (mostly containing low to intermediate concentrations of tPCBs) were tested. A total of 26 different sediment samples were tested (20 OU-4 sediment samples and six reference sediment samples, not counting the laboratory control sediment samples that were included with each batch of toxicity tests). Additionally, one sediment sample (#20) was included in both Cycle 1a and Cycle 1b tests conducted with *C. dilutus* by the CERC to test repeatability of results over time. The CERC laboratory conducted most of the *C. dilutus* toxicity tests and the ERDC laboratory conducted most of the *H. azteca* toxicity tests. However, in Cycle 1a, the two laboratories conducted additional tests with *H. azteca* (CERC) and *C. dilutus* (ERDC) exposed to one control and five OU-4 sediment samples to allow inter-laboratory comparisons of toxicity results. At the end of Cycle 1b, the CERC also conducted side-by-side sets of 20-day *C. dilutus* toxicity tests for one control and five OU-4 sediment samples that were started with 7-day-old larvae or <24-hour-old larvae, to compare relative sensitivity of the two life stages.

Seven days before the start of a test, each sediment sample to be tested was removed from cold storage, re-homogenized, and placed into the exposure chambers along with overlying water. The exposure chambers were kept at 23 °C for 7 days without renewal of the overlying water to allow the sediment-water system to equilibrate before organisms were placed in chambers at the start of the test. All tests were

conducted in general accordance with ASTM International (2012) and United States Environmental Protection Agency (USEPA [2000]) guidance. The only exception was that in the life-stage-sensitivity tests conducted at the end of Cycle 1b, all *C. dilutus* tests were started with 7-day-old larvae instead of less than 24-hour-old larvae (the age specified by ASTM International [2012]) to increase the probability of meeting control-survival acceptability and, thus, having acceptable test results.

Twelve survival, growth, and reproduction endpoints were measured in the *C. dilutus* tests, and 11 survival, growth, and reproduction endpoints were measured in the *H. azteca* tests (Table C-1). Although six additional *H. azteca* endpoints were reported by the laboratories, those endpoints are not included in this analysis because they were:

- Thirty-five-day survival and reproduction endpoints that did not provide additional discrimination beyond that provided by the 28- and 42-day survival and reproduction endpoints, or
- Twenty-eight- and 42-day dry weight per individual and biomass per replicate endpoints that were calculated from measured lengths of *H. azteca* (using generic length-weight regressions) and, thus, are not considered as reliable as the same endpoints based on dry weight values measured during the toxicity tests (i.e., the 28- and 42-day dry weight per individual and biomass per replicate endpoints listed in Table C-1).

The test durations were 42 days for *H. azteca* and up to 54 days for *C. dilutus*.

## 2.4 Chemical Analyses

Sub-samples of the sediments collected for toxicity testing were analyzed for six grain-size categories, moisture content, loss on ignition, concentrations of organic carbon, 23 major and trace elements (including the 16 metals and metalloids on the USEPA Target Analyte List), acid volatile sulfide (AVS), five simultaneously extracted metals (SEM), nine PCB Aroclors, 13 PCB congeners, 10 PCB homolog groups, one biphenyl, 46 parent and alkylated polycyclic aromatic hydrocarbons (PAHs), 21 organochlorine pesticides, and 17 polychlorinated dibenzo-*p*-dioxin and furan congeners, as described in Ingersoll et al. (2014).

Additionally, during the toxicity tests, porewater samples were collected and analyzed for a select group of constituents. Direct measures of pH, conductivity, alkalinity, and hardness were recorded, and concentrations of ammonia, hydrogen sulfide, dissolved organic carbon, four inorganic anions, and 61 major and trace elements were measured for samples collected by centrifugation and/or by peepers placed approximately 1 centimeter into the sediment in the exposure chambers for seven days. Porewater concentrations of 209 PCB congeners and 10 PCB homolog groups were estimated using solid phase microextraction fibers that were placed in the exposure chambers for 28 days. The raw data for the porewater analyses, as provided to Arcadis by CERC, are presented in Attachment 1 to this appendix.

## 2.5 Data Analyses

### 2.5.1 Calculation of the Reference Envelope

Because the definitive chronic toxicity tests for each species were conducted in three separate batches (at different times and/or in different laboratories) and the control responses sometimes differed considerably

among those batches (see Table C-2), the response measured for each endpoint for each species was normalized to the average response measured for that endpoint in the control sediment tested concurrently with that batch of sediments. Therefore, the response for each endpoint in each sediment sample was expressed as a percentage of the control response, and control-normalized responses greater than 100 percent sometimes occurred in reference and/or OU-4 sediments.

After control normalization, each endpoint response was regressed against dry weight-normalized total polychlorinated biphenyl Aroclor ($tPCB_A$) concentration and separately against organic carbon-normalized $tPCB_A$ concentration to develop two concentration-response relationships for each endpoint. The dry weight-normalized and organic carbon-normalized $tPCB_A$ concentrations were chosen as the predictors for the concentration-response relationships because sediments at OU-4 were previously characterized in terms of $tPCB_A$ concentrations instead of total polychlorinated biphenyl homolog ($tPCB_H$) concentrations, thus necessitating development of toxicity-predictor equations based on $tPCB_A$ concentrations. The concentration-response curves were calculated using nonlinear regression in SAS® (SAS Institute Inc., Cary, North Carolina), by fitting the data to the following sigmoid logistic equation:

Equation 1:
$$R = \frac{R_{max}}{1 + \left( \frac{tPCB_A}{EC50} \right)^{slope}}$$

Where:

R = response value (percent of control; e.g., percent survival)

$R_{max}$ = regression-fitted maximum response (percent of control)

$tPCB_A$ = total PCB Aroclor concentration (milligrams per kilogram [mg/kg] dry weight sediment or mg/kg organic carbon)

EC50 = 50 percent effect concentration of $tPCB_A$ (mg/kg dry weight sediment or mg/kg organic carbon)

slope = slope of the logistic regression of R vs. $tPCB_A$ concentration

A reference envelope was calculated for each endpoint, using the control-normalized responses of the six reference samples. The “bottom” of the response envelope was defined as the lowest control-normalized response percentage observed in the six reference sediment samples (except for time to emergence of *C. dilutus*, for which the highest control-normalized response percentage [i.e., the most delayed emergence from the pupal cocoon] represented the most adverse effect).

The modeling described above was repeated in the same manner using mercury concentrations instead of tPCBs.

### 2.5.2 Calculation of Effect Concentrations Relative to the Reference Envelope

This section describes calculation of the sediment PCB concentrations associated with 0, 10, 20, and 50 percent impairment beyond the lower limit of each reference envelope. The lower limit of the envelope response was defined as R0* (i.e., a reference-sediment-adjusted zero response). Then, R10*, R20*, and

R50* (i.e., the reference-adjusted 10, 20, and 50 percent response percentages) were calculated by multiplying R0* by 0.9, 0.8, and 0.5, respectively. For example, if the lowest control-normalized survival among the six reference sediment samples was 80 percent, R0*, R10*, R20*, and R50* were 80, 72, 64, and 40 percent, respectively. The regression-predicted EC0*, EC10*, EC20*, and EC50* values (i.e., the dry weight-normalized and organic carbon-normalized $tPCB_A$ concentrations associated with the R0*, R10*, R20*, or R50* reference-sediment response percentages) were back-calculated by entering R0*, R10*, R20*, or R50* as R and the regression-specific values of $R_{max}$, slope, and EC50 into Equation 1, and then solving for $tPCB_A$. The "bottom" of the response envelope was defined as the lowest response percentage, consistent with the approach used by Ingersoll et al. (2014) to define the reference envelope. Table C-5 presents the EC0*, EC10*, EC20*, and EC50* values for PCBs based on a dry weight- and organic carbon-normalized basis.

Additionally, an attempt was made to calculate sediment PCB concentrations associated with the average response in the reference envelope, designated as EC0 values. The EC0 is estimated as the PCB concentration at which the average reference-sediment response is predicted to occur, when projected onto the concentration-response curve generated for that endpoint with OU-4 sediments. This EC0 differs from the EC0* described above, which is the PCB concentration at which no effects are predicted beyond those observed in reference sediments. The EC0 values were estimated as described above for the EC* values, except that the average response in the reference sediment toxicity tests was used instead of the response at the bottom of the reference envelope. Table C-1 presents the EC0 values for PCBs based on a dry weight basis. For many of the benthic endpoints, the predicted PCB concentration was outside the concentration-response curve; therefore, EC0 values could not be estimated. EC0 values for organic carbon-normalized sediment PCB concentrations were not calculated.

### 2.5.3 Reference Envelope Statistics

As demonstrated by the biological response variability observed in the reference sediment toxicity tests, the exact response measured in a toxicity test is not dependent only on the concentration of the toxicant in the test media. Variation in ecotoxicological response is expected both in laboratory and *in situ*, and thus also contributes to the measured response. Therefore, the lowest response measured in a set of six reference sediment samples is not expected to be the lowest response that would be measured if a larger number of reference sediment samples had been tested (i.e., the range of measured responses is expected to increase as sample size increases [Miller and Freund 1977; Glick 1978]). Several statistics are available for estimating the range of all possible values of biological responses in reference toxicity tests, including prediction limits, simultaneous limits, and tolerance limits (where the limit is the lower or upper confidence limit of a lower or upper percentile of the distribution). However, since the sample size (n=6) would tend to result in wide confidence intervals, these statistics were not used to evaluate the toxicity test results. Instead, the 5$^{th}$ percentile of the reference envelope was calculated as follows:

$$\text{Response } (5^{th} \text{ percentile}) = \text{Mean response} - (\text{standard deviation of response} * 1.645)$$

The PCB concentration at which the 5$^{th}$ percentile of the reference response is expected is shown in Table C-1 ($EC0^*_{5th\%tile}$).

# 3 RESULTS AND DISCUSSION

## 3.1 Results

Results of chemical analyses of bulk sediments collected from OU-4 for the sediment toxicity tests and results of porewater and overlying water in the toxicity tests are reported in Ingersoll et al. (2014) and in Appendix E of the OU-4 BERA. The interpretive analyses of these data for the benthic invertebrate risk assessment are presented herein, and the results and characterization of risk are discussed in the main body of the OU-4 BERA.

Concentrations of inorganic constituents (primarily metals) were generally low in both the sediment samples and porewater samples. Concentrations in sediments, with few exceptions, were lower than "consensus-based" probable effect concentrations (PECs) for inorganic chemicals published by MacDonald et al. (2000), and most constituents in porewater were either nondetect, or below available ecological water quality standards (Ingersoll et al. 2014). Additionally, the results of AVS/SEM analyses revealed that there is little potential for bioavailability of divalent metals (cadmium, copper, nickel, lead, and zinc) in OU-4 sediments (Table C-4). Calculation of values of SEM minus AVS (SEM-AVS, molar basis), and SEM-AVS normalized to the fraction of sediment organic carbon (SEM-AVS/$f_{OC}$) indicate low bioavailability and low probability of risk from the five divalent metals (USEPA 2005). The sediments with the highest positive SEM-AVS values also had the highest lead concentrations. However, mean values of SEM AVS/$f_{OC}$ for those ranged from only 56 to 73 and, according to USEPA guidance, a sediment having a value of SEM-AVS/$f_{OC}$ of less than 130 should pose low risk of adverse biological effects from these five metals (USEPA 2005). This is an indicator that the divalent metals are bound up by sulfur compounds in the sediment and not available for biological uptake/exposure.

An exception to this was mercury, which was not analyzed in the porewater samples, and exceeds its PEC in a number of the sediment samples analyzed. While it is likely that the available AVS is sufficient to bind some or all of the mercury in sediments and render it non-bioavailable, Arcadis examined it with respect to the sediment toxicity endpoints because of the PEC exceedances and its known co-occurrence with PCBs in OU-4 sediments.

Concentrations of PAHs and organochlorine pesticides were also consistently lower than "consensus-based" PECs published by MacDonald et al. (2000). Therefore, those COPCs are not likely to have contributed significantly (relative to PCBs) to toxicity in OU-4 sediments, leaving PCBs as the likely dominant contaminant (Ingersoll et al. 2014).

Ingersoll et al. (2014) conducted concentration-response evaluations for PCBs in both sediment and porewater. The authors concluded from their analyses that there is a similar relationship, with almost identical statistical significance, between PCB concentrations and effects for both sediment and porewater data for the same samples. The results of the solid phase microextraction estimations of PCBs in porewater are presented for total homolog PCBs in Table C-5, and the raw data are provided in Attachment 1 to this appendix. After examination of these data and the statistical analyses comparing sediment and porewater concentration relationships conducted by Ingersoll et al. (2014), it was verified that sediment is the appropriate medium by which to evaluate the concentration-response for the sediment toxicity tests. This was an important issue to verify, and these results are favorable, as any risk

management decisions that relate to sediment-dwelling biota will be made on sediment data results from OU-4, not those from porewater.

When regressed across all of the OU-4 sediments collected for toxicity testing, the $tPCB_H$ concentration was approximately two times the $tPCB_A$ concentration (Figure C-1). That relationship was evident down to a concentration of approximately 0.6 mg $tPCB_A$/kg dry weight sediment; however, at concentrations less than 0.6 mg $tPCB_A$/kg dry weight sediment, the $tPCB_H$:$tPCB_A$ ratio was approximately 1:1 (Figure C-1).

The same laboratory control sediment was used in all three batches of toxicity tests; however, responses of the test organisms to the laboratory control sediment varied considerably for some toxicity endpoint responses (Table C-2). The variation among the three control responses for each endpoint (expressed as 100 percent•[max{control response} - min{control response}]/[mean{control response}]) ranged from 1.3 percent (42-day survival of *H. azteca*) to 137 percent (42-day young/female for *H. azteca*). Control variability for survival endpoints (*H. azteca* and *C. dilutus*) and percent hatch (*C. dilutus*) was relatively small (1.3 to 4.4 percent). Control variability for both species was greater for growth endpoints (18 to 80 percent), and reproduction endpoints (25 to 137 percent). The variance in control response expressed as the coefficient of variation (CV) ranged from 0.8 percent (42-day survival of *H. azteca*) to 70 percent (42-day young/female for *H. azteca*) (Table C-2). Given the sometimes large variability in control responses for a toxicity endpoint, large variability can also be expected in responses of organisms exposed to OU-4 sediments. This introduces substantial uncertainty into the interpretation of the exposure-response relationship for these endpoints.

As another indication of variability in the sediment toxicity results, the CERC conducted *C. dilutus* tests with Sediment #20 once in Cycle 1a and once in Cycle 1b (i.e., approximately 2½ months apart) (Ingersoll 2014). The difference in control-normalized response for each endpoint (expressed as 100 percent•[absolute value {Cycle 1b response - Cycle 1a response}]/[mean{Cycle 1a and 1b responses}]) ranged from 0.2 percent (13-d biomass/replicate) to 74 percent (number of egg cases). Of the 12 endpoints, six (50 percent) had differences that were less than 20 percent of the mean control-normalized response and five (42 percent) had differences between 20 and 50 percent of the mean control-normalized response (including a 27 percent difference in percent emergence, which was the most sensitive endpoint for *C. dilutus*). The median difference was 22.4 percent. Those differences between Cycle 1a and Cycle 1b results might have been caused by:

- Different sensitivity of the batches of *C. dilutus* tested approximately 2½ months apart,
- Chemical changes in Sediment #20 during storage between the two cycles of testing, and
- Random variability to be expected in sediment toxicity tests.

Toxicity responses were similar when the same sediment was tested by the CERC and the ERDC (with either *C. dilutus* or *H. azteca*) in the inter-laboratory comparison conducted during Cycle 1a (Ingersoll et al. 2014). Therefore, there did not appear to be a substantial between-species-comparison bias caused by either conducting most of the *C. dilutus* tests at the CERC and most of the *H. azteca* tests at the ERDC (Ingersoll et al. 2014), or by combining results from both testing laboratories when constructing concentration-response relationships for either species within the bounds of uncertainty posed by the high control variability of several of the tests for both species.

In the side-by-side sets of 20-day *C. dilutus* toxicity tests that were started with 7-day-old larvae or greater than 24-hour-old larvae, the survival, weight, and biomass results were relatively consistent between the

two life stages (Ingersoll et al. 2014). Therefore, tests started with 7-day-old larvae (i.e., all the results reported below for *C. dilutus*) did not appear to underestimate the toxicity of OU-4 sediments to *C. dilutus* compared to tests started with greater than 24-hour-old larvae. That deviation from standard protocol (ASTM International 2012) did not bias interpretations of the toxicity of OU-4 sediments.

A variety of concentration-response relationships was observed among the 23 total toxicity endpoints (Figures C-2a through C-2c and C-3a through C-3c). Most of the *C. dilutus* and *H. azteca* endpoints had response vs. $tPCB_A$ concentration relationships in which survival, growth, or reproduction in most of the reference and OU-4 sediments was less than or approximately equal to the value in the laboratory control sediment and decreased as $tPCB_A$ concentration increased. However, for some endpoints, most of the reference sediments and some of the OU-4 sediments exceeded the control-sediment responses. Moreover, responses for some endpoints remained approximately constant as $tPCB_A$ concentration increased (e.g., Figure C-2b, hatch); and for a few endpoints, the response tended to increase as $tPCB_A$ concentration increased, contrary to traditional expectations (e.g., Figure C-3b; dry weight). Logistic regressions and EC0, EC0*, EC10*, EC20*, and EC50* values were only calculated when an endpoint response decreased as $tPCB_A$ concentration increased. Regression coefficients for the concentration-response curves are listed in Table C-3. A similar pattern in the relationships is observed between toxicity endpoints and mercury concentrations in sediment (Figures C-4a through C-4c and Figure C-5a through C-5c). This would be expected because mercury and $tPCB_A$ are highly correlated ($r^2 = 0.86$). Regression parameters and EC0, EC0*, EC10*, EC20*, and EC50* for mercury are shown in Table C-6.

For *H. azteca*, the dry weight-normalized EC0* values ranged from 1.38 to 31 mg $tPCB_A$/kg dry weight sediment, the EC10* values ranged from 2.58 to 127 mg $tPCB_A$/kg dry weight sediment, and the EC20* values ranged from 4.43 to 165 mg $tPCB_A$/kg dry weight sediment (Table C-7). The corresponding organic carbon-normalized EC0* values ranged from 72.8 to 2,380 mg $tPCB_A$/kg organic carbon, the EC10* values ranged from 120 to 5,250 mg $tPCB_A$/kg organic carbon, and the EC20* values ranged from 195 to 7,600 mg $tPCB_A$/kg organic carbon (Table C-7). Based on the EC* values, the most sensitive endpoint in the *H. azteca* tests was 42-day young/female normalized to 42-day survival of the adult females, for which the EC0*, EC10*, and EC20* values were 1.38, 2.58, and 4.43 mg $tPCB_A$/kg dry weight sediment (72.8, 120, and 195 mg $tPCB_A$/kg organic carbon; Table C-7 and Figure C-3c). Dry weight-normalized EC0 values could not be calculated for any endpoint (Table C-1). The values for the 5$^{th}$ percentile of reference ($EC0^*_{5th\%tile}$) ranged from 4.08 to 96.1 mg $tPCB_A$/kg (Table C-1).

For *C. dilutus*, the dry weight-normalized EC0* values ranged from 0.89 to 209 mg $tPCB_A$/kg dry weight sediment for EC0* values, the EC10* values ranged from 2.29 to 260 mg $tPCB_A$/kg dry weight sediment, and the EC20* values ranged from 4.70 to 324 mg $tPCB_A$/kg dry weight sediment (Table C-1). The corresponding organic carbon-normalized EC0* values ranged from 89.2 to 8,390 mg $tPCB_A$/kg organic carbon, the EC10* values ranged from 191 to 9,890 mg $tPCB_A$/kg organic carbon, and the EC20* values ranged from 344 to 13,900 mg $tPCB_A$/kg organic carbon (Table C-7). Dry weight-normalized EC0 values could be calculated only for two endpoints: number of young/egg case (18.1 mg $tPCB_A$/kg dry weight sediment) and adult survival time (1.03 mg $tPCB_A$/kg dry weight sediment; Table C-1). The values for the 5$^{th}$ percentile of reference ($EC0^*_{5th\%tile}$) ranged from 1.27 to 244 mg $tPCB_A$/kg (Table C-1). The most sensitive endpoint in the *C. dilutus* tests was adult biomass per replicate chamber, resulting in the minimum values presented above. However, high uncertainty is associated with that adult-biomass endpoint (Figure C-2a). The testing laboratories estimated adult biomass by calculating adult emergence × average 13-day ash-free dry weight per larva × 12 (the nominal number of larvae added to each replicate

beaker at the start of the test), with an explicit assumption that the ratio of adult ash-free dry weight (not measured during the toxicity tests) to the 13-day ash-free dry weight (which was measured) was constant for all the control, reference, and OU-4 sediments. That assumption cannot be verified and is not likely, thus leaving the adult biomass endpoint highly uncertain. The next most sensitive *C. dilutus* endpoint was emergence percentage (Figure C-2b), for which the dry weight-normalized EC0*, EC10*, and EC20* values were 2.04, 6.8, and 14.3 mg $tPCB_A$/kg dry weight sediment (170, 465, and 873 mg $tPCB_A$/kg organic carbon; Table C-7).

The most sensitive endpoints with respect to $tPCB_A$ were similar for mercury. The EC0* values for the most sensitive endpoints are 0.938 (*C. dilutus*) and 0.412 (*H. azteca*) mg/kg mercury (Table C-6; Figures C-4a through C-4c and C-5a through C-5c). These values are less than the reported PEC of 1.06 mg/kg (MacDonald et al. 2000). Additionally, there is a reasonable likelihood that mercury in the sediments is not bioavailable, based on the AVS-SEM results (Table C-4). Therefore, the likelihood that mercury is causing the toxicity in the test samples is low.

For the nonlinear models described above, all laboratory results were treated independently. For five of the sediment samples collected within OU-4, two independent tests were conducted by two different laboratories. An additional analysis was conducted comparing the nonlinear-regression results with and without averaging the duplicate sediment results. During Cycle 1a of the sediment toxicity testing program, both the USGS and the USACE laboratories (CERC and ERDC) conducted sediment toxicity tests with *C. dilutus* and *H. azteca* exposed to six duplicated sediment samples (five OU-4 sediment samples and one control sediment sample) (Table C-8). The most sensitive endpoint among both species was *H. azteca* 42-day young/female (non-normalized results for the statistical limits or normalized to 42-day survival for the EC* values). Table C-6 compares results of the nonlinear regressions of the normalized reproduction endpoint vs. PCB concentration with and without the control-normalized results for those sediments averaged. Only five of the six duplicate sediment samples were included in the regressions because one of the six repeated sediment samples was the laboratory control sediment sample, and the laboratory control sediment sample was not included in the nonlinear regressions because the sediment responses were normalized to their within-batch control responses. When the nonlinear regression results were compared with and without averaging the duplicate sediment sample results, the results are similar with and without averaging the duplicate sediment samples (Tables C-9 and C-10).

## 3.2 Threshold Value Comparison

The threshold values for total PCBs reported by Ingersoll et al. (2014) vary somewhat from the values presented in this appendix (Table C-11). Similarities existed in the methodologies used, but there were a few key differences that account for the difference in threshold values. Ingersoll et al. (2014) used a reference envelope approach to calculate thresholds based on the minimum reference response described in this appendix, reported a toxicity threshold low range ($TT_{LR}$) equivalent to the EC0* presented in this appendix, and a toxicity threshold high range ($TT_{HR}$) equivalent to the EC10* presented in this appendix. The differences in approach between Ingersoll et al. (2014) and this appendix are summarized below:

- For most response relationships, Ingersoll et al. (2014) used the nonlinear model described in this appendix, but in some cases used a linear model when the “linear regression models fit the data better.” Ingersoll et al. (2014) did not provide further details regarding the choice of model form. Linear

regression models require the assumption that response data would increase infinitely as concentrations decrease and decrease infinitely as concentrations increase. This assumption is not valid for response data because it is bounded between 0 and some maximum value. Therefore, linear regression was not used to model response data in this appendix.

- Ingersoll et al. (2014) generally reported threshold values for tPCBs expressed as total homolog groups. In this appendix, tPCBs are expressed as total Aroclors because most of the sediment data collected in OU-4 are expressed as total Aroclors, making threshold values derived in this appendix more applicable to OU-4, and relevant for risk management decision-making.
- Ingersoll et al. (2014) excluded a reference sample (Sediment #4) from the analysis because of "slightly elevated PAH concentrations" (0.4 mg/kg). There was no basis to exclude this sample, as elevated PAH concentrations are typical of waterways in urban areas such as Anniston. This sample was included in this appendix because it was collected in Choccolocco Creek upstream of the site, similar to the other five reference samples. In addition, response data from this reference sample were within the range of the other reference samples. Including this reference sample does not change the minimum reference response value on which the thresholds are based, but would affect the value of the $R_{max}$ parameter of the nonlinear model because reference data are included for model estimation.

These differences will result in slight differences in model parameters and associated threshold calculations. For the most sensitive *H. azteca* endpoint, 42-day young/female (normalized to survival), Ingersoll et al. (2014) also calculated Aroclor-based thresholds ($TT_{LR}$ = 1.17; $TT_{HR}$ = 2.08 mg/kg dry weight) using a nonlinear model. These values are much closer to the values calculated in this appendix and the slight difference is presumably related to the exclusion of one of the reference sediment samples.

## 3.3 Uncertainty

As previously discussed, laboratory control response was quite variable for some endpoints, particularly those found to be the most sensitive. This variability contributes to the uncertainty associated with the threshold values. In particular, control response for *H. azteca* reproduction endpoints had very high control variability, varying as much as four-fold among batches (Table C-2). Reference response (percent of control) ranged widely for these endpoints (64 to 192 percent) and confidence intervals for concentration response models were wider for these endpoints than for the endpoints with more stable control response such as survival (Figure C-3c). In addition, a sample collected far downgradient from OU-4 and in which PCBs (and most other chemicals) were not detected performed poorly with respect to these endpoints (Figure C-3c). Conversely, many of the OU-4 sediment samples performed better than the laboratory control samples. Therefore, significant uncertainty surrounds the predictability of these reproductive endpoints. To evaluate the sensitivity of the control response to threshold estimates, the *H. azteca* endpoint was re-modeled using non-adjusted data. The EC0* for the non-adjusted model is 6.97 mg/kg $tPCB_A$, five times greater than the EC0* based on adjusted data (i.e., 1.38 mg/kg $tPCB_A$). In contrast, when 42-day survival is modeled with non-adjusted data, the EC0* is similar (35.8 vs. 31.1 mg/kg $tPCB_A$ for adjusted data).

USEPA cautions about the uncertainties introduced by poor performance in laboratory control samples and states that even if reference sediment samples have acceptable performance, "any samples showing poor performance should not be judged to have shown toxicity, since it is unknown whether the adverse

factors that caused poor control performance might have also caused poor performance in the test treatments" (USEPA 2000). The tests of the control sediments met the minimum, currently available acceptability criteria (e.g., control survival less than 80 percent at day 28 and less than 2 young per female from day 28 to day 42 for *H. azteca*); however, there are no specific criteria related to reproducibility or variance in control performance (USEPA 2000). Further, it is acknowledged that reproductive endpoints are more variable. In an inter-laboratory round-robin study, the CV of the young/female response was 48.9 percent for a similar control sediment as was used in this study (USEPA 2000). The CV for the three control tests in this study is 70 percent, which is greater than was found in the studies upon which the acceptability criteria are based (Table C-2). This variability in control response adds significant uncertainty to the predictability of models based on these endpoints.

# 4 SUMMARY

The site-specific toxicity tests conducted with OU-4 sediments resulted in a wide range of toxicity thresholds and BTVs for the range of endpoints tested. A variety of concentration-response relationships were observed among the 23 total toxicity endpoints (Figures C-2a through C-2c and C-3a through C-3c). Most of the *C. dilutus* and *H. azteca* endpoints had demonstrable response vs. $tPCB_A$ concentration relationships. Some of the measured endpoints (in particular, *H. azteca* reproduction) had large control variability resulting in significant uncertainty with respect to predictability of effects. This range of results is used in the OU-4 BERA to estimate potential site-related PCB effects on benthic invertebrate communities.

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# TABLES

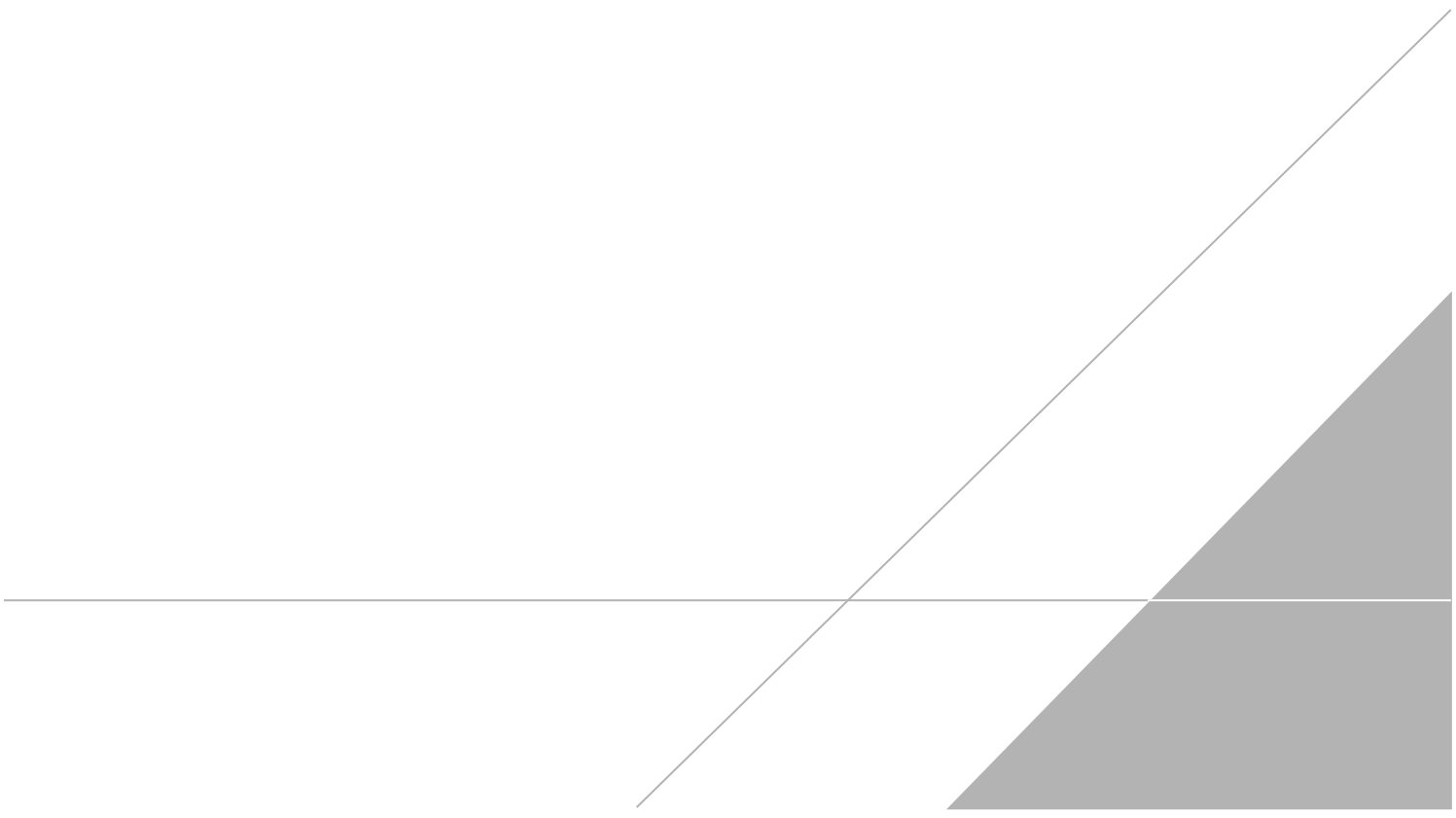


**Table C-1. PCB-Aroclor Concentration Thresholds for Impairment of *Chironomus dilutus* and *Hyalella azteca* Endpoints in Toxicity Tests with OU-4 Sediments**
**Anniston PCB Site, Anniston, Alabama**

| Species | Endpoint | PCB-Aroclor concentration (mg/kg dry weight of sediment) | | | | | |
|---|---|---|---|---|---|---|---|
| | | EC0 [a] | EC0* [a] | EC10* [a] | EC20* [a] | EC50* [a] | EC0*$_{5th\%tile}$ [b] |
| | | | | | | | |
| *Chironomus dilutus* | 13-d dw | 0.05 [c] | 5.99 | 17.3 | 32.3 | 120.6 | 7.39 |
| | 13-d biomass | 0.05 [c] | 6.02 | 13.6 | 23.2 | 77.7 | 5.90 |
| | Adult biomass | 0.05 [c] | 0.89 | 2.29 | 4.70 | 27.25 | 1.27 |
| | % emergence | 0.05 [c] | 2.04 | 6.80 | 14.3 | 71.2 | 4.07 |
| | Time to emergence | --[d] | --[d] | --[d] | --[d] | --[d] | --[d] |
| | Number of egg cases | 0.05 [c] | 21.1 | 31.4 | 45.9 | 146 | 27.7 |
| | Number of eggs/egg case | --[d] | --[d] | --[d] | --[d] | --[d] | --[d] |
| | % hatch | --[d] | --[d] | --[d] | --[d] | --[d] | --[d] |
| | Total young | 0.05 [c] | 69.4 | 89.0 | 114 | 261 | 125 |
| | Young/egg case | 18.1 | 209 | 260 | 324 | 685 | 173 |
| | 13-d survival | 0.05 [c] | 14.1 | 75.7 | 123 | 288 | 8.91 |
| | Adult survival time | 1.03 | 98.1 | 187 | 323 | 1,423 | 244 |
| *Hyalella azteca* | 28-d dw | --[d] | --[d] | --[d] | --[d] | --[d] | --[d] |
| | 28-d biomass | 0.05 [c] | 1.70 | 25.1 | 57.7 | 253 | 14.0 |
| | 28-d length | --[d] | --[d] | --[d] | --[d] | --[d] | --[d] |
| | 42-d dw | --[d] | --[d] | --[d] | --[d] | --[d] | --[d] |
| | 42-d biomass | 0.05 [c] | 18.2 | 39.6 | 67.7 | 231 | 31.5 |
| | 42-d length | --[d] | --[d] | --[d] | --[d] | --[d] | --[d] |
| | 42-d total young | 0.05 [c] | 9.18 | 12.8 | 17.8 | 50.1 | 16.7 |
| | 42-d young/female | 0.05 [c] | 1.46 | 3.00 | 5.42 | 25.6 | 4.08 |
| | 42-d young/female (normalized to 42-day survival) | 0.05 [c] | 1.38 | 2.58 | 4.43 | 19.8 | 4.51 |
| | 28-d survival | 0.05 [c] | UND [e] | 105 | 152 | 261 | UND [e] |
| | 42-d survival | 0.05 [c] | 31.1 | 127 | 165 | 262 | 96.1 |

**Table C-1. PCB-Aroclor Concentration Thresholds for Impairment of *Chironomus dilutus* and *Hyalella azteca* Endpoints in Toxicity Tests with OU-4 Sediments**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**

[a] EC0: the PCB concentration at which the average reference-sediment response would be predicted to occur, when projected onto the concentration-response curve generated for that endpoint with OU-4 sediments. EC0*, EC10*, EC20* and EC50* are the regression-predicted PCB concentrations that would cause an additional 0%, 10%, 20% or 50% effect beyond the lowest response measured in the reference sediments (i.e., 1x, 0.9x, 0.8x and 0.5x the response at the "bottom" of the reference envelope).

[b] $EC0^*_{5th\%tile}$ : the regression-predicted PCB concentrations that would cause an additional 0% effect beyond the 5th percentile response measured in the reference sediments.

[c] PCB concentration could not be estimated because the calculated reference-sediment response was greater than the regression-predicted maximum control-normalized response; therefore, the average PCB-Aroclor concentration (0.05 mg $tPCB_A$/kg dw sediment) in the six reference sediments was used as a surrogate value.

[d] could not be calculated because a decreasing concentration-response relationship did not exist for this endpoint.

[e] UND: undefined because the lowest (or 5th percentile) control-normalized reference-sediment response was greater than the regression-predicted maximum control-normalized response.

d: day
dw: dry weight
mg/kg: milligrams per kilogram
PCB: polychlorinated biphenyl
$tPCB_A$: total polychlorinated biphenyl Aroclor
%: percent

**Table C-2. Variability Among Toxicity-Endpoint Responses in the Laboratory-Control Sediments Tested in the Three Batches of OU-4 Sediments from the Anniston PCB Site**
**Anniston PCB Site, Anniston, Alabama**

| Species | Endpoint | Control response in each sediment-testing batch[a] | | | Range of control responses (% of mean of controls)[b] | Coefficient of Variation (CV)[c] |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | | |
| *C. dilutus* | 13-d ash-free dw (mg/individual) | 0.93 | 1.41 | 0.96 | 43.6 | 24% |
| | 13-d biomass per replicate chamber (mg) | 10.4 | 16.5 | 11 | 47.5 | 27% |
| | Adult biomass per replicate chamber (mg)[d] | 8.6 | 12.6 | 7.8 | 49.7 | 27% |
| | Emergence (%) | 77.1 | 74 | 67.7 | 12.9 | 6.6% |
| | Emergence time (d) | 31.6 | 27.2 | 23.9 | 27.7 | 14% |
| | Number of egg cases | 4.1 | 3 | 4.4 | 35.9 | 19% |
| | Number of eggs/egg case | 850 | 1,100 | 1,030 | 25.2 | 13% |
| | Hatch (%) | 90.9 | 93.6 | 89.6 | 4.4 | 2.2% |
| | Total young | 3,080 | 2,950 | 4,090 | 33.6 | 18% |
| | Young/egg case | 770 | 1,040 | 930 | 29.8 | 15% |
| | 13-d survival (%) | 93.8 | 97.9 | 95.8 | 4.4 | 2.1% |
| | Adult survival time (d) | 6.8 | 4.8 | 6.1 | 34.2 | 17% |
| *H. azteca* | 28-d dw (mg/individual) | 0.23 | 0.36 | 0.24 | 45.9 | 26% |
| | 28-d biomass per replicate chamber (mg) | 2.21 | 3.44 | 2.33 | 46 | 25% |
| | 28-d length (mm) | 4.06 | 4.7 | 3.77 | 22.1 | 11% |
| | 42-d dw (mg/individual) | 0.42 | 0.63 | 0.28 | 79.5 | 40% |
| | 42-d biomass per replicate chamber (mg) | 3.83 | 5.97 | 2.62 | 80.8 | 41% |
| | 42-d length (mm) | 4.52 | 5.21 | 4.35 | 18.2 | 10% |
| | 42-d total young | 19.8 | 36.4 | 10.5 | 116.5 | 59% |
| | 42-d young/female | 4.2 | 9.1 | 2.1 | 137.2 | 70% |
| | 42-d young/female (normalized to 42-d survival) | 3.8 | 8.1 | 1.9 | 135.2 | 69% |
| | 28-d survival (%) | 97.5 | 99.2 | 96.7 | 2.6 | 1.3% |
| | 42-d survival (%) | 92.5 | 93.8 | 93.8 | 1.3 | 0.8% |

**Notes:**

[a] For *C. dilutus* , Batch 1, 2, and 3 tests were conducted at USGS-CERC, USACE-ERDC, and USGS-CERC, respectively; for *H. azteca* , Batch 1, 2, and 3 tests were conducted at USACE-ERDC, USGS-CERC, and USACE-ERDC, respectively.

[b] Equals 100%·[max(control response) - min(control response)]/mean(control response).

[c] Equals 100% x ( standard deviation/mean)

[d] Estimated as adult emergence × 13-d ash-free dry weight, assuming adult ash-free dry weight (which was not measured) for each sediment was proportional to the 13-d ash-free dry weight that was measured for the sediment. Therefore, this endpoint has high uncertainty associated with it.

d: day
dw: dry weight
mg: milligrams
mm: millimeters
PCB: polychlorinated biphenyl
USACE-ERDC: United States Army Corps of Engineers - Engineer Research and Development Center
USGS-CERC: United States Geologic Survey - Columbia Environmental Research Center
%: percent

**Table C-3. Regression Coefficients for the Concentration-Response Curves in Figures C-2 and C-3**
**Anniston PCB Site, Anniston, Alabama**

| Species | Endpoint | Regressions using dw-normalized concentration (mg $tPCB_A$/kg dw sediment) | | | | Regressions using OC-normalized concentration (mg $tPCB_A$/kg OC) | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | $R_{max}$ | Slope | EC50 | EC0* [a] | $R_{max}$ | Slope | EC50 | EC0* [a] |
| *C. dilutus* | 13-d ash-free dw | 112 | 0.922 | 104 | 6.00 | 112 | 0.943 | 4,984 | 322 |
| | 13-d biomass per replicate chamber | 112 | 0.958 | 63.8 | 6.02 | 113 | 0.990 | 2,957 | 346 |
| | Adult biomass per replicate chamber [c] | 116 | 0.606 | 16.9 | 0.890 | 118 | 0.713 | 968 | 89.2 |
| | Emergence percentage | 96.6 | 0.744 | 57.9 | 2.04 | 96.9 | 0.871 | 2,845 | 170 |
| | Emergence time | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | Number of egg cases | 77.5 | 0.714 | 54.8 | 21.1 | 78.5 | 0.797 | 2,620 | 1,160 |
| | Number of eggs/egg case | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | Hatch percentage | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | Total young | 76.3 | 0.874 | 84.2 | 69.4 | 76 | 1.0773 | 3,992 | 3,390 |
| | Young/egg case | 99.8 | 0.917 | 201 | 209 | 99.2 | 1.203 | 8,218 | 8,390 |
| | 13-d survival | 98.6 | 1.60 | 285 | 14.2 | 98.9 | 1.87 | 11,360 | 1,000 |
| | Adult survival time | 82.6 | 0.647 | 724 | 98.0 | 82.7 | 0.693 | 29,278 | 4,580 |
| *H. azteca* | 28-d dw | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | 28-d biomass per replicate chamber | 87.5 | 0.919 | 247 | 1.69 | 80.2 | 3.78 | 12,374 | UND[d] |
| | 28-d length | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | 42-d dw | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | 42-d biomass per replicate chamber | 92.0 | 0.923 | 184 | 18.2 | 89.0 | 1.25 | 9,051 | 1,220 |
| | 42-d length | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | 42-d total young | 105 | 0.751 | 16.8 | 9.18 | 113 | 0.708 | 676 | 453 |
| | 42-d young/female | 137 | 0.640 | 14.0 | 1.46 | 148 | 0.637 | 573 | 102 |
| | 42-d young/female (normalized to 42-d survival) | 130 | 0.626 | 9.27 | 1.38 | 162 | 0.509 | 183 | 72.8 |
| | 28-d survival | 85.9 | 2.75 | 267 | UND[d] | 86.5 | 3.03 | 10,566 | UND[d] |
| | 42-d survival | 84.1 | 3.01 | 262 | 31 | 84.9 | 3.14 | 10,247 | 2,380 |

**Table C-3. Regression Coefficients for the Concentration-Response Curves in Figures C-2 and C-3**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**

The logistic equation to which the toxicity data were fit is: R = Rmax/[1 + (tPCBA/EC50)slope], where R = response value (% of control), Rmax = regression-fitted maximum response (% of control), tPCBA = total PCB Aroclor concentration (mg/kg dry sediment or mg/kg OC), EC50 = regression-fitted 50% effect concentration of tPCBA (mg/kg dry sediment or mg/kg OC), and slope = slope of the logistic regression of R vs. tPCBA concentration.

[a] EC0* is the regression-predicted $PCB_A$ concentration at the lowest response measured in the reference sediments (i.e., the “bottom” of the reference envelope) for that endpoint.

[b] Could not be calculated because a decreasing concentration-response relationship did not exist for this endpoint.

[c] Estimated as adult emergence × 13-d ash-free dry weight, assuming adult ash-free dry weight (which was not measured) for each sediment was proportional to the 13-d ash-free dry weight that was measured for the sediment. Therefore, this endpoint has high uncertainty associated with it.

[d] UND: undefined EC0*, because the lowest control-normalized reference-sediment response (88.8%) was greater than the regression-predicted maximum control-normalized response (85.9%).

d: day

dw: dry weight

mg tPCBA/kg dw sed: milligrams total polychlorinated biphenyl Aroclor per kilogram dry weight sediment
mg tPCBA/kg OC: milligrams total polychlorinated biphenyl Aroclor per kilogram organic carbon

**Table C-4. Summary of Total PCB Homolog Results in Porewater Samples Estimated Using Solid Phase Microextraction (µg/L)**
**Anniston PCB Site, Anniston, Alabama**

| Test Organism | Toxicity Test Cycle | Sediment Sample Identification No. | Total Homolog PCB (µg/L) |
|---|---|---|---|
| *Chironomus dilutus* (Midge) | 1a | 1 | 51.2 |
| | 1a | 6 | 163 |
| | 1a | 6 | 136 |
| | 1a | 7 | 71.6 |
| | 1a | 8 | 105 |
| | 1a | 9 | BDL |
| | 1a | 11 | 173 |
| | 1a | 11 | 111 |
| | 1a | 18 | 319 |
| | 1a | 18 | 205 |
| | 1a | 19 | 189 |
| | 1a | 20 | 5.39 |
| | 1a | 25 | 66.3 |
| | 1a | 25 | 33.1 |
| | 1a | 30 | 379 |
| | 1a | 30 | 257 |
| | 1a | 33 | 1.87 |
| | 1a | 33 | BDL |
| *Hyalella azteca* (Amphipod) | 1a | 1 | 120 |
| | 1a | 6 | 218 |
| | 1a | 6 | 116 |
| | 1a | 7 | 119 |
| | 1a | 8 | 173 |
| | 1a | 9 | 0 |
| | 1a | 11 | 85.7 |
| | 1a | 11 | 124 |
| | 1a | 18 | 390 |
| | 1a | 19 | 397 |
| | 1a | 19 | 461 |
| | 1a | 20 | 29.0 |
| | 1a | 25 | 75.9 |
| | 1a | 25 | 14.3 |
| | 1a | 30 | 360 |
| | 1a | 30 | 89.2 |
| | 1a | 33 | 0.167 |
| | 1a | 33 | 0 |
| *Chironomus dilutus* (Midge) | 1b | 2 | 18.2 |
| | 1b | 4 | BDL |
| | 1b | 10 | BDL |
| | 1b | 13 | 25.7 |
| | 1b | 14 | 74.8 |
| | 1b | 15 | 0.871 |
| | 1b | 16 | 0.0988 |
| | 1b | 17 | 65.1 |
| | 1b | 22 | BDL |
| | 1b | 23 | 9.21 |

**Table C-4. Summary of Total PCB Homolog Results in Porewater Samples Estimated Using Solid Phase Microextraction (µg/L)**
**Anniston PCB Site, Anniston, Alabama**

| Test Organism | Toxicity Test Cycle | Sediment Sample Identification No. | Total Homolog PCB (µg/L) |
|---|---|---|---|
| *Chironomus dilutus* (Midge) | 1b | 24 | 0.892 |
| | 1b | 26 | BDL |
| | 1b | 27 | 23.3 |
| | 1b | 28 | 0.209 |
| | 1b | 29 | BDL |
| | 1b | 20 | 16.0 |
| | 1b | 33 | BDL |
| *Hyalella azteca* (Amphipod) | 1b | 2 | 11.8 |
| | 1b | 4 | BDL |
| | 1b | 10 | BDL |
| | 1b | 13 | 30.5 |
| | 1b | 14 | 71.8 |
| | 1b | 15 | 0.510 |
| | 1b | 16 | 0.161 |
| | 1b | 17 | 61.4 |
| | 1b | 22 | BDL |
| | 1b | 23 | 14.2 |
| | 1b | 24 | 1.40 |
| | 1b | 26 | BDL |
| | 1b | 27 | 25.0 |
| | 1b | 28 | 0.175 |
| | 1b | 29 | BDL |
| | 1b | 20 | BDL |

**Notes:**
BDL: below detection limit
PCB: polychlorinated biphenyl
µg/L: microgram per liter

**Table C-5. Acid Volatile Sulfide and Simultaneously Extracted Metals in Sediments Evaluated During Toxicity Testing**
**Anniston PCB Site, Anniston, Alabama**

| Sediment Field ID | Sediment Lab ID | Test species | Test laboratory | AVS (µmol/g) | Simultaneously extracted metal (µg/g) | | | | | SEM-AVS (µmol/g) | SEM-AVS/$f_{OC}$ (µmol/g) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Copper | Nickel | Zinc | Cadmium | Lead | | |
| **Cycle 1a test samples** | | | | | | | | | | | |
| TX40-04-P | 01 | CD | CERC | 1.15 | 3.95 | 1.92 | 25.5 | 0.10 | 20.7 | -0.56 | -30 |
| | | HA | ERDC | 0.90 | 4.19 | 2.04 | 21.9 | 0.085 | 16.9 | -0.38 | -20 |
| TX60-03-P | 06 | CD | CERC | 0.80 | 5.25 | 2.41 | 29.1 | 0.15 | 19.3 | -0.14 | -11 |
| | | HA | CERC | 0.56 | 6.68 | 5.56 | 27.3 | 0.15 | 16.6 | 0.14 | 10 |
| | | CD | ERDC | 1.20 | 1.66 | 3.08 | 27.6 | 0.11 | 19.1 | -0.61 | -46 |
| | | HA | ERDC | 0.61 | 6.86 | 2.37 | 28.3 | 0.15 | 17.4 | 0.057 | 4 |
| TX30-03-P | 07 | CD | CERC | 2.63 | 7.02 | 4.37 | 66.8 | 0.24 | 44.8 | -1.20 | -30 |
| | | HA | ERDC | 2.74 | 6.99 | 3.83 | 65.5 | 0.22 | 42.1 | -1.36 | -34 |
| TX50-01-P | 08 | CD | CERC | 1.29 | 11.0 | 7.75 | 108. | 0.37 | 119. | 1.24 | 45 |
| | | HA | ERDC | 1.03 | 16.6 | 11.0 | 120. | 0.41 | 124. | 1.86 | 67 |
| TXR1-02-P | 09 | CD | CERC | 0.46 | 1.34 | 1.76 | 4.7 | 0.042 | 2.46 | -0.33 | -46 |
| | | HA | ERDC | 0.46 | 1.49 | 2.42 | 5.7 | 0.018 | 2.78 | -0.29 | -41 |
| TX50-04-P | 11 | CD | CERC | 1.34 | 14.5 | 3.50 | 109. | 0.28 | 57.4 | 0.90 | 36 |
| | | HA | CERC | 0.96 | 14.8 | 4.06 | 93.1 | 0.26 | 48.7 | 1.00 | 40 |
| | | CD | ERDC | 1.97 | 4.99 | 4.32 | 100. | 0.26 | 54.8 | - 0.025 | -1 |
| | | HA | ERDC | 1.23 | 12.7 | 4.05 | 107. | 0.29 | 56.2 | 0.95 | 38 |
| TX30-02-P | 18 | CD | CERC | 1.50 | 11.0 | 8.75 | 103. | 0.42 | 112. | 0.95 | 36 |
| | | CD | ERDC | 2.53 | 7.20 | 8.01 | 102. | 0.39 | 109. | -0.19 | -7 |
| | | HA | ERDC | 1.01 | 17.1 | 8.64 | 110. | 0.44 | 113. | 1.64 | 62 |
| TX50-02-P | 19 | CD | CERC | 1.44 | 12.4 | 12.6 | 125. | 0.55 | 146. | 1.59 | 61 |
| | | HA | CERC | 0.70 | 14.9 | 10.8 | 110. | 0.38 | 122. | 2.00 | 77 |
| | | HA | ERDC | 1.01 | 15.0 | 13.5 | 125. | 0.42 | 145. | 2.07 | 80 |
| TX60-02-P | 20 | CD | CERC | 0.64 | 3.48 | 1.41 | 12.6 | 0.061 | 10.6 | -0.31 | -28 |
| | | HA | ERDC | 0.56 | 4.32 | 13.8 | 12.6 | 0.046 | 10.4 | - 0.012 | -1 |
| TX30-01-P | 25 | CD | CERC | 1.63 | 5.11 | 3.18 | 38.4 | 0.13 | 23.9 | -0.79 | -30 |
| | | HA | CERC | 1.21 | 5.69 | 2.82 | 33.2 | 0.12 | 20.9 | -0.47 | -18 |

**Table C-5. Acid Volatile Sulfide and Simultaneously Extracted Metals in Sediments Evaluated During Toxicity Testing**
**Anniston PCB Site, Anniston, Alabama**

| Sediment Field ID | Sediment Lab ID | Test species | Test laboratory | AVS (µmol/g) | Simultaneously extracted metal (µg/g) | | | | | SEM-AVS (µmol/g) | SEM-AVS/$f_{OC}$ (µmol/g) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Copper | Nickel | Zinc | Cadmium | Lead | | |
| **Cycle 1a test samples (continued)** | | | | | | | | | | | |
| TX30-01-P | 25 | CD | ERDC | 2.09 | 1.98 | 2.26 | 32.7 | 0.11 | 22.7 | -1.41 | -55 |
| | | HA | ERDC | 1.80 | 5.15 | 3.96 | 36.7 | 0.14 | 23.1 | -0.98 | -38 |
| TX50-05-P | 30 | CD | CERC | 0.99 | 9.51 | 5.02 | 83.9 | 0.27 | 70.1 | 0.87 | 38 |
| | | HA | CERC | 0.87 | 13.4 | 5.57 | 99.4 | 0.25 | 76.9 | 1.33 | 58 |
| | | CD | ERDC | 1.73 | 6.92 | 6.22 | 105. | 0.31 | 83.8 | 0.50 | 22 |
| | | HA | ERDC | 0.95 | 12.7 | 12.1 | 99.9 | 0.26 | 82.2 | 1.38 | 60 |
| WB control | 33a | CD | CERC | 1.31 | 3.52 | 6.29 | 20.8 | 0.14 | 5.10 | -0.81 | -69 |
| | | HA | CERC | 1.31 | 3.56 | 5.87 | 21.5 | 0.15 | 5.38 | -0.80 | -69 |
| | | CD | ERDC | 1.82 | 3.41 | 6.91 | 23.0 | 0.17 | 5.62 | -1.27 | -109 |
| | | HA | ERDC | 1.61 | 3.76 | 6.21 | 23.4 | 0.18 | 5.72 | -1.05 | -91 |
| **Cycle 1b test samples** | | | | | | | | | | | |
| TX30-05-P | 02 | CD | CERC | 1.85 | 10.2 | 4.05 | 112. | 0.38 | 56.6 | 0.37 | 12 |
| | | HA | ERDC | 1.86 | 13.0 | 3.36 | 114. | 0.36 | 56.1 | 0.42 | 14 |
| TXR1-03-P | 04 | CD | CERC | 0.20 | 1.12 | 2.50 | 4.1 | < 0.023 | 2.20 | - 0.063 | -10 |
| | | HA | ERDC | 0.20 | 1.35 | 2.37 | 4.0 | < 0.023 | 2.27 | - 0.066 | -11 |
| TXR1-06-P | 10 | CD | CERC | 0.43 | 2.83 | 3.34 | 8.8 | *0.038* | 3.93 | -0.18 | -34 |
| | | HA | ERDC | 0.65 | 2.76 | 3.39 | 7.3 | *0.037* | 3.95 | -0.41 | -79 |
| TX60-04-P | 13 | CD | CERC | 0.63 | 9.68 | 3.38 | 26.8 | 0.11 | 22.8 | 0.10 | 7 |
| | | HA | ERDC | 0.59 | 9.36 | 2.60 | 25.1 | 0.15 | 20.5 | 0.088 | 6 |
| TX40-05-P | 14 | CD | CERC | 0.67 | 8.67 | 3.18 | 38.8 | 0.15 | 28.6 | 0.25 | 13 |
| | | HA | ERDC | 0.88 | 7.91 | 3.03 | 37.4 | 0.17 | 28.9 | 0.014 | 1 |
| TX40-03-P | 15 | CD | CERC | 0.38 | 5.55 | 1.27 | 12.2 | 0.077 | 15.6 | - 0.004 | 0 |
| | | HA | ERDC | 0.36 | 4.68 | 1.45 | 11.1 | *0.073* | 15.0 | - 0.020 | -1 |
| TX10-01-P | 16 | CD | CERC | < 0.01 | 1.20 | 1.21 | 2.4 | 0.05 | 4.63 | 0.10 | 37 |
| | | HA | ERDC | < 0.01 | 0.91 | 0.45 | 2.0 | *0.046* | 4.25 | 0.074 | 28 |

**Table C-5. Acid Volatile Sulfide and Simultaneously Extracted Metals in Sediments Evaluated During Toxicity Testing**
**Anniston PCB Site, Anniston, Alabama**

| Sediment Field ID | Sediment Lab ID | Test species | Test laboratory | AVS (µmol/g) | Simultaneously extracted metal (µg/g) | | | | | SEM-AVS (µmol/g) | SEM-AVS/$f_{OC}$ (µmol/g) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Copper | Nickel | Zinc | Cadmium | Lead | | |
| **Cycle 1b test samples (continued)** | | | | | | | | | | | |
| TX40-02-P | 17 | CD | CERC | 0.40 | 9.28 | 2.12 | 32.6 | 0.14 | 23.1 | 0.39 | 36 |
| | | HA | ERDC | 0.55 | 9.00 | 4.53 | 33.1 | 0.14 | 23.8 | 0.29 | 27 |
| TX60-02-P | 20 | CD | CERC | 0.32 | 4.90 | 1.58 | 13.5 | 0.078 | 11.7 | 0.043 | 6 |
| | | HA | ERDC | --- | --- | --- | --- | --- | --- | --- | --- |
| TXR1-04-P | 22 | CD | CERC | 0.49 | 1.38 | 2.51 | 4.9 | *0.030* | 2.56 | -0.34 | -71 |
| | | HA | ERDC | 0.46 | 1.63 | 6.66 | 4.9 | *0.032* | 2.76 | -0.23 | -49 |
| TX30-04-P | 23 | CD | CERC | 1.25 | 5.10 | 1.65 | 26.0 | *0.085* | 16.3 | -0.67 | -32 |
| | | HA | ERDC | 1.32 | 6.76 | 5.44 | 26.7 | 0.10 | 16.7 | -0.63 | -30 |
| TX20-03-P | 24 | CD | CERC | 0.30 | 1.38 | 1.69 | 13.7 | *0.050* | 3.45 | - 0.028 | -13 |
| | | HA | ERDC | 0.36 | 2.11 | 5.30 | 12.2 | *0.048* | 3.25 | - 0.032 | -15 |
| TXR1-01-P | 26 | CD | CERC | 0.34 | 1.12 | 2.67 | 4.4 | < 0.023 | 2.36 | -0.20 | -65 |
| | | HA | ERDC | 0.36 | 1.20 | 4.58 | 4.6 | < 0.023 | 2.46 | -0.18 | -59 |
| TX40-01-P | 27 | CD | CERC | 0.55 | 6.40 | 2.48 | 17.6 | 0.093 | 15.5 | - 0.067 | -6 |
| | | HA | ERDC | 0.34 | 6.66 | 2.97 | 17.1 | *0.073* | 14.9 | 0.15 | 14 |
| TX20-01-P | 28 | CD | CERC | 0.52 | 3.55 | 2.17 | 19.2 | 0.10 | 4.89 | -0.11 | -15 |
| | | HA | ERDC | 0.89 | 3.06 | 3.45 | 20.3 | 0.087 | 9.60 | -0.42 | -58 |
| TXR1-05-P | 29 | CD | CERC | 0.55 | 1.53 | 2.22 | 6.3 | *0.039* | 3.63 | -0.37 | -79 |
| | | HA | ERDC | 0.56 | 1.72 | 5.28 | 5.9 | *0.025* | 3.21 | -0.33 | -71 |
| WB control | 33b | CD | CERC | 1.19 | 5.35 | 7.03 | 28.2 | 0.22 | 7.26 | -0.52 | -48 |
| | | HA | ERDC | 1.29 | 4.86 | 6.61 | 26.0 | 0.22 | 6.81 | -0.67 | -62 |

**Table C-5. Acid Volatile Sulfide and Simultaneously Extracted Metals in Sediments Evaluated During Toxicity Testing**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**
Values in italics are greater than detection limits, but less than quantitation limits. Samples obtained from test chambers on day 21 of toxicity testing.
S / AVS = S[Cu,Ni,Zn,Cd,Pb] mmol/g ¸AVS mmol/g. AVS/SEM values less than or equal to 1 suggest that the metals are not bioavailable.
AVS: acid volatile sulfide
CD: *Chironomus dilutus* (midge)
CERC: U.S. Geological Survey's Columbia Environmental Research Center
ERDC: U.S Army Corps of Engineer's Engineer Research and Development Center
$f_{oc}$: fraction of sediment organic carbon
HA: *Hyalella azteca* (amphipod)
ID: identification
mmol/g: millimole per gram
SEM: simultaneously extractable metals (cadmium [Cd], copper [Cu], nickel [Ni], lead [Pb], zinc [Zn])
µg/g: microgram per gram
µmol/g: micromole per gram

**Table C-6. Regression Coefficients for the Concentration-Response Curves in Figures C-4 and C-5 and Concentrations of Mercury Predicted to Decrease Growth, Survival, or Reproduction Compared to the Reference Envelope**
**Anniston PCB Site, Anniston, Alabama**

| Species | Endpoint | Regressions using dw-normalized concentration (mg mercury/kg dry weight sediment) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | $R_{max}$ | Slope | EC50 | EC0* [a] | EC10* [a] | EC20* [a] | EC50* [a] |
| *C. dilutus* | 13-d ash-free dw | 105 | 2.17 | 14 | 1.58 | 5.34 | 7.61 | 14 |
| | 13-d biomass per replicate chamber | 103 | 2.51 | 11 | 2.34 | 4.96 | 6.62 | 11.2 |
| | Adult biomass per replicate chamber [c] | 117.8 | 0.760 | 3.2195 | 0.349 | 0.708 | 1.23 | 4.87 |
| | Emergence percentage | 90.9 | 1.68 | 10.1 | 0.938 | 3.03 | 4.68 | 10.4 |
| | Emergence time | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | Number of egg cases | 82.4 | 0.725 | 6.34 | 3.13 | 4.48 | 6.33 | 18.8 |
| | Number of eggs/egg case | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | Hatch percentage | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | Total young | 72.6 | 1.79 | 12.5 | 10.7 | 12.2 | 13.8 | 20.9 |
| | Young/egg case | 97.9 | 2.23 | 18.0 | 18.0 | 19.7 | 21.6 | 29.4 |
| | 13-d survival | 99.5 | 2.21 | 23.0 | 3.63 | 9.16 | 12.8 | 23.4 |
| | Adult survival time | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| *H. azteca* | 28-d dw | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | 28-d biomass per replicate chamber | 88.7 | 1.15 | 22.6 | 0.90 | 4.02 | 7.5 | 23.6 |
| | 28-d length | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | 42-d dw | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | 42-d biomass per replicate chamber | 90.7 | 1.48 | 19.0 | 4.08 | 6.95 | 9.87 | 21.6 |
| | 42-d length | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | 42-d total young | 105.2 | 1.06 | 3.33 | 2.17 | 2.75 | 3.47 | 7.22 |
| | 42-d young/female | 141 | 0.807 | 2.52 | 0.501 | 0.842 | 1.31 | 4.32 |
| | 42-d young/female (normalized to 42-d survival) | 137.5 | 0.7178 | 1.592 | 0.412 | 0.661 | 1.02 | 3.49 |
| | 28-d survival | 89.4 | 2.29 | 20.6 | 2.35 | 8.14 | 11.4 | 20.8 |
| | 42-d survival | 87.1 | 2.59 | 20.3 | 5.65 | 9.81 | 12.7 | 20.9 |

**Table C-6. Regression Coefficients for the Concentration-Response Curves in Figures C-4 and C-5 and Concentrations of Mercury Predicted to Decrease Growth, Survival, or Reproduction Compared to the Reference Envelope**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**

The logistic equation to which the toxicity data were fit is: R = Rmax/[1 + (mercury/EC50)slope], where R = response value (% of control), Rmax = regression-fitted maximum response (% of control), EC50 = regression-fitted 50% effect concentration of mercury (mg/kg dry sediment), and slope = slope of the non-linear logistic regression of R vs. mercury concentration.

[a] EC0*, EC10*, EC20* and EC50* are the regression-predicted $PCB_A$ concentrations that would cause an additional 0%, 10%, 20%, or 50% effect beyond the lowest

[b] Could not be calculated because a decreasing concentration-response relationship did not exist for this endpoint.

[c] Estimated as adult emergence × 13-d ash-free dry weight, assuming adult ash-free dry weight (which was not measured) for each sediment was proportional to the 13-d ash-free dry weight that was measured for the sediment. Therefore, this endpoint has high uncertainty associated with it.

d: day

dw: dry weight

kg: kilograms

mg: milligrams

**Table C-7. Concentrations of Total PCB Aroclors ($tPCB_A$) Predicted to Decrease Growth, Survival, or Reproduction by *Chironomus dilutus* or *Hyalella azteca* Exposed to OU-4 Sediments from the Anniston PCB Site by 0, 10, 20, and 50% Relative to the Lowest Reference-Sediment Response**
**Anniston PCB Site, Anniston, Alabama**

| Species | Endpoint | Dry-weight-normalized conc. (mg $tPCB_A$/kg dw sed) | | | | OC-normalized conc. (mg $tPCB_A$/kg OC) | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | EC0*[a] | EC10*[a] | EC20*[a] | EC50*[a] | EC0*[a] | EC10*[a] | EC20*[a] | EC50*[a] |
| *C. dilutus* | 13-d ash-free dw | 6 | 17.3 | 32.3 | 121 | 322 | 880 | 1,610 | 5,790 |
| | 13-d biomass per replicate chamber | 6.02 | 13.6 | 23.2 | 77.7 | 346 | 711 | 1,170 | 3,670 |
| | Adult biomass per replicate chamber [c] | 0.89 | 2.29 | 4.7 | 27.3 | 89.2 | 191 | 344 | 1,498 |
| | Emergence percentage | 2.04 | 6.8 | 14.3 | 71.2 | 170 | 465 | 873 | 3,410 |
| | Emergence time | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | Number of egg cases | 21.1 | 31.4 | 45.9 | 146 | 1,160 | 1,660 | 2,310 | 6,440 |
| | Number of eggs/egg case | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | Hatch percentage | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | Total young | 69.4 | 89 | 114 | 261 | 3,390 | 4,150 | 5,080 | 9,950 |
| | Young/egg case | 209 | 260 | 324 | 685 | 8,390 | 9,890 | 11,700 | 20,800 |
| | 13-d survival | 14.2 | 75.7 | 123 | 288 | 1,000 | 3,710 | 5,570 | 11,500 |
| | Adult survival time | 98 | 186 | 323 | 1,420 | 4,580 | 8,320 | 13,900 | 55,200 |
| *H. azteca* | 28-d dry weight | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | 28-d biomass per replicate chamber | 1.69 | 25.1 | 57.7 | 252 | UND[d] | 4,880 | 7,600 | 11,900 |
| | 28-d length | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | 42-d dry weight | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | 42-d biomass per replicate chamber | 18.2 | 39.6 | 67.7 | 231 | 1,220 | 2,520 | 3,930 | 10,200 |
| | 42-d length | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] | ---[b] |
| | 42-d total young | 9.18 | 12.8 | 17.8 | 50.1 | 453 | 627 | 866 | 2,480 |
| | 42-d young/female | 1.46 | 3 | 5.42 | 25.6 | 102 | 181 | 302 | 1,270 |
| | 42-d young/female (normalized to 42-d survival) | 1.38 | 2.58 | 4.43 | 19.8 | 72.8 | 120 | 195 | 902 |
| | 28-d survival | UND[d] | 105 | 152 | 261 | UND[d] | 4,636 | 6,390 | 10,400 |
| | 42-d survival | 31 | 127 | 165 | 262 | 2,380 | 5,250 | 6,690 | 10,300 |

**Table C-7. Concentrations of Total PCB Aroclors ($tPCB_A$) Predicted to Decrease Growth, Survival, or Reproduction by *Chironomus dilutus* or *Hyalella azteca* Exposed to OU-4 Sediments from the Anniston PCB Site by 0, 10, 20, and 50% Relative to the Lowest Reference-Sediment Response**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**

[a] EC0*, EC10*, EC20* and EC50* are the regression-predicted $PCB_A$ concentrations that would cause an additional 0%, 10%, 20%, or 50% effect beyond the lowest response measured in the reference sediments (i.e., 1×, 0.9×, 0.8×, and 0.5× the response at the "bottom" of the reference envelope).

[b] Could not be calculated because a decreasing concentration-response relationship did not exist for this endpoint.

[c] Estimated as adult emergence × 13-d ash-free dry weight, assuming adult ash-free dry weight (which was not measured) for each sediment was proportional to the 13-d ash-free dry weight that was measured for the sediment. Therefore, this endpoint has high uncertainty associated with it.

[d] UND: undefined EC0*, because the lowest control-normalized reference-sediment response (88.8%) was greater than the regression-predicted maximum control-normalized response (85.9%).

d: day

dw: dry weight

mg tPCBA/kg dw sed: milligrams total polychlorinated biphenyl Aroclor per kilogram dry weight sediment
mg tPCBA/kg OC: milligrams total polychlorinated biphenyl Aroclor per kilogram organic carbon

**Table C-8. Independent and Averaged *Hyalella azteca* 42-day Young/Female (Normalized to 42-Day Survival), for the Six Sediments that were Tested in Both the USGS and the USACE Labs during Cycle 1a**
**Anniston PCB Site, Anniston, Alabama**

| Sediment ID | PCB Aroclors (mg/kg dw) | OC-normalized PCB Aroclors (mg/kg OC) | Reproduction (% of control) | | |
|---|---|---|---|---|---|
| | | | USGS | USACE | Average |
| 6 | 59.9 | 4,504 | 8.2 | 5.9 | 7.1 |
| 11 | 85.5 | 3,393 | 19.8 | 37.1 | 28.5 |
| 19 | 437 | 16,873 | 0 | 0 | 0 |
| 25 | 26.3 | 1,015 | 53.4 | 54.4 | 53.9 |
| 30 | 204 | 8,870 | 17.1 | 16.4 | 16.7 |
| 33 | 0.06 | 5 | 100 | 100 | 100 |

**Notes:**
ID: identification
mg/kg dw: milligrams per kilogram dry weight
mg/kg OC: milligrams per kilogram organic carbon
PCB: polychlorinated biphenyls
USACE: United States Army Corps of Engineers
USGS: United States Geological Survey
%: percent

**Table C-9. Nonlinear Regression Fits for *Hyalella azteca* 42-day Young/Female (Normalized to 42-day Survival) Fitted to all USGS and USACE Sediment Data from Cycles 1a and 1b, with and without the Results for the Duplicate Sediments Averaged**
**Anniston PCB Site, Anniston, Alabama**

| PCB Concentration | Parameter | Without averaging | With averaging | Units |
|---|---|---|---|---|
| PCB Aroclors | Maxresponse | 130 | 131.8 | % |
| | Slope | 0.6257 | 0.5817 | --- |
| | EC50 | 9.265 | 8.794 | mg/kg dw |
| | | | | |
| OC-normalized PCB Aroclors | Maxresponse | 161.9 | 189.7 | % |
| | Slope | 0.5089 | 0.4168 | --- |
| | EC50 | 183.4 | 78 | mg/kg OC |

**Notes:**

Regression equation was: Response = Maxresponse/[1+(PCB/EC50)slope], where Response is the within batch control-normalized percent reproduction.
mg/kg dw: milligrams per kilogram dry weight
mg/kg OC: milligrams per kilogram organic carbon
PCB: polychlorinated biphenyls
%: percent

**Table C-10. Inhibition Concentrations (Relative to the Bottom of the Reference Envelope) in Anniston PCB Sediment Toxicity Tests, for *Hyalella azteca* 42-day Young/Female (Normalized to 42-day Survival) with and without the Results for the Duplicate Sediments Averaged**
**Anniston PCB Site, Anniston, Alabama**

| PCB Concentration | Parameter | Without averaging | With averaging | Units |
|---|---|---|---|---|
| PCB Aroclors | EC0* | 1.38 | 1.26 | mg/kg dw |
| | EC10* | 2.58 | 2.4 | mg/kg dw |
| | EC20* | 4.43 | 4.23 | mg/kg dw |
| | EC50* | 19.8 | 20.7 | mg/kg dw |
| | | | | |
| OC-normalized PCB Aroclors | EC0* | 72.8 | 61.2 | mg/kg OC |
| | EC10* | 120 | 101 | mg/kg OC |
| | EC20* | 195 | 169 | mg/kg OC |
| | EC50* | 902 | 928 | mg/kg OC |

**Notes:**
mg/kg dw: milligrams per kilogram dry weight
mg/kg OC: milligrams per kilogram organic carbon
PCB: polychlorinated biphenyls

**Table C-11. Comparison of EC0* and EC10* to Threshold Values Reported by Ingersoll et al., 2014, for Sensitive Endpoints Anniston PCB Site, Anniston Alabama**

| Organism | Endpoint | OU-4 BERA | | Ingersoll et al. 2014 | | |
|---|---|---|---|---|---|---|
| | | EC0*[a] | EC10*[a] | $TT_{LR}$[b] | $TT_{HR}$[b] | Model Type[c] |
| ***H. azteca*** | 42-d young/female (normalized to survival) | 1.38 | 2.58 | 0.499 | 1.17 | Linear regression |
| | 28-d biomass | 1.70 | 25.1 | 5.03 | 28.1 | Nonlinear regression |
| ***C.dilutus*** | Percent Emergence | 2.04 | 6.80 | 1.87 | 7.11 | Nonlinear regression |
| | 13-d biomass | 6.02 | 13.6 | 15.0 | 35.9 | Nonlinear regression |
| | Adult Biomass[d] | 0.894 | 2.29 | 1.14 | 3.37 | Nonlinear regression |

**Notes:**

[a] EC0*and EC10*are the non-linear regression-predicted PCB concentrations (mg/kg dry weight), expressed as sum of aroclors, that would cause an additional 0% or 10% effect beyond the lowest response measured in the reference sediments. Model form: R = Rmax/[1 + ($tPCB_A$/EC50)slope], where R = response value (% of control), Rmax = regression-fitted maximum response (% of control), $tPCB_A$ = total PCB Aroclor concentration (mg/kg dry sediment), EC50 = regression-fitted 50% effect concentration of $tPCB_A$ (mg/kg dry sediment), and slope = slope of the logistic regression of R vs. $tPCB_A$ concentration

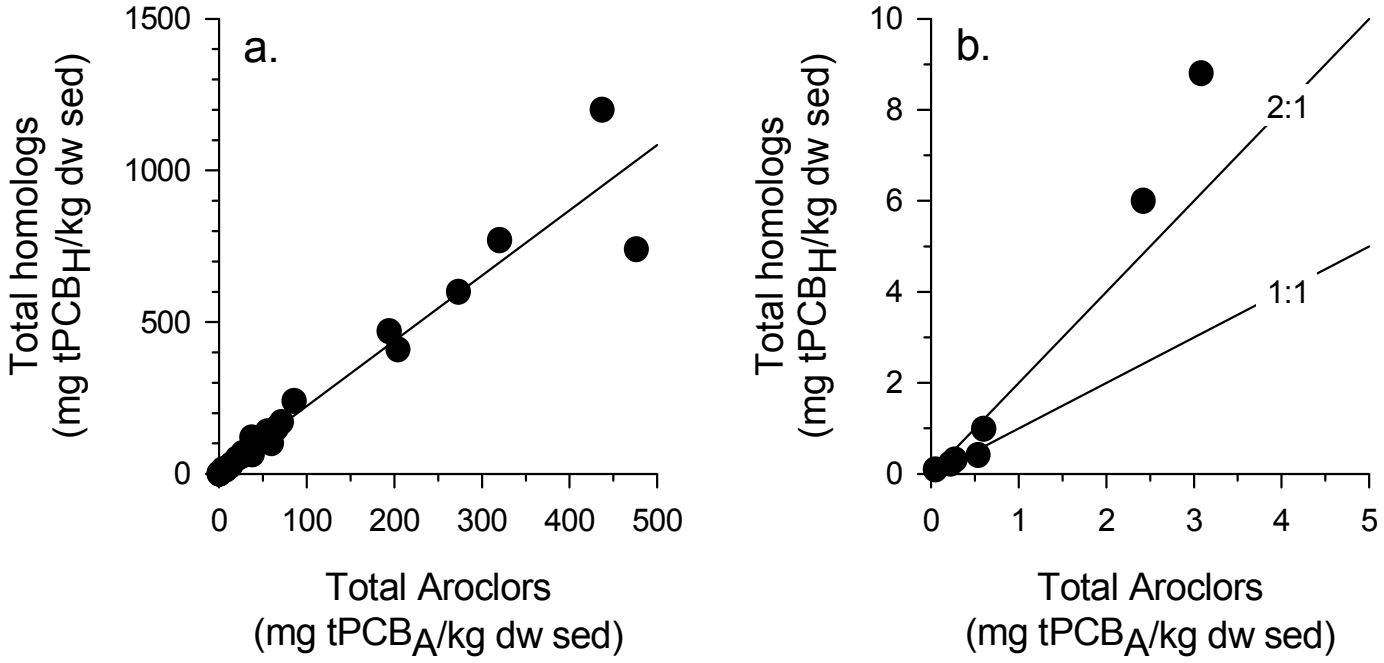
[b] Toxicity threshold low range ($TT_{LR}$) and high range ($TT_{HR}$) reported in Ingersoll et al., 2014, equivalent to EC0* and EC10* for total PCBs (mg/kg dry weight) expressed as total homologs.

[c] Type of model used to derive thresholds by Ingersoll et al., 2014. Nonlinear regression is of the form: R = Rmax/[1 + ($tPCB_H$/EC50)slope], where R = response value (% of control), Rmax = regression-fitted maximum response (% of control), $tPCB_H$ = total PCB homologs concentration (mg/kg dry sediment), EC50 = regression-fitted 50% effect concentration of $tPCB_H$ (mg/kg dry sediment), and slope = slope of the nonlinear regression of R vs. $tPCB_H$ concentration. Linear regression is of the form: R = intercept + $tPCB_H$*slope

[d]Estimated as adult emergence × 13-d ash-free dry weight, assuming adult ash-free dry weight (which was not measured) for each sediment was proportional to the 13-d ash-free dry weight that was measured for the sediment. Therefore, this endpoint has high uncertainty associated with it and was not used to evaluate risk.

d: day
dw: dry weight
mg/kg: milligrams per kilogram
OU-4 BERA: Baseline Ecological Risk Assessment for OU-4
PCB: polychlorinated biphenyl
$tPCB_A$: total polychlorinated biphenyl Aroclor
$tPCB_h$: total polychlorinated biphenyl homolog
%: percent

# FIGURES




**Notes:**
(a) All the sediments; the least-squares regression fit (the diagonal line) is $tPCB_H = 2.154 \times tPCB_A + 7.363$.
(b) Only the 7 sediments having <4 mg $tPCB_A$/kg dw sediment; the diagonal lines show homolog:Aroclor ratios of 2:1 and 1:1 for illustrative purposes.
mg $tPCB_A$/kg dw sed: milligrams total polychlorinated biphenyl Aroclor per kilogram dry weight sediment
mg $tPCB_H$/kg dw sed: milligrams total polychlorinated biphenyls homolog per kilogram dry weight sediment

Anniston PCB Site

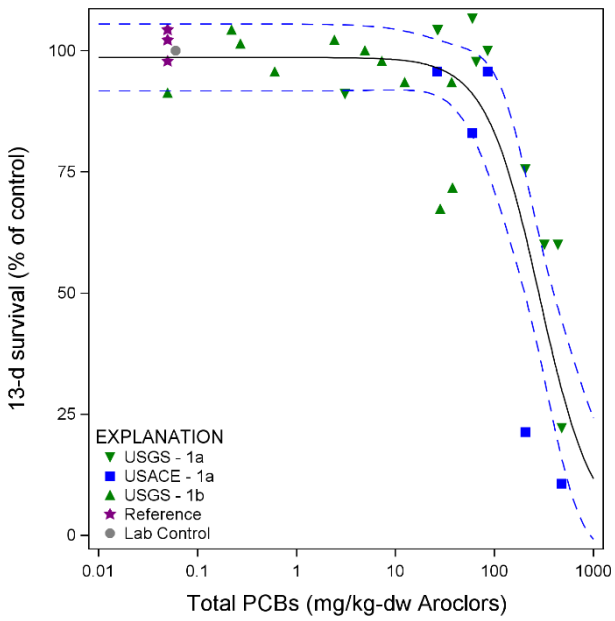
Anniston, Alabama

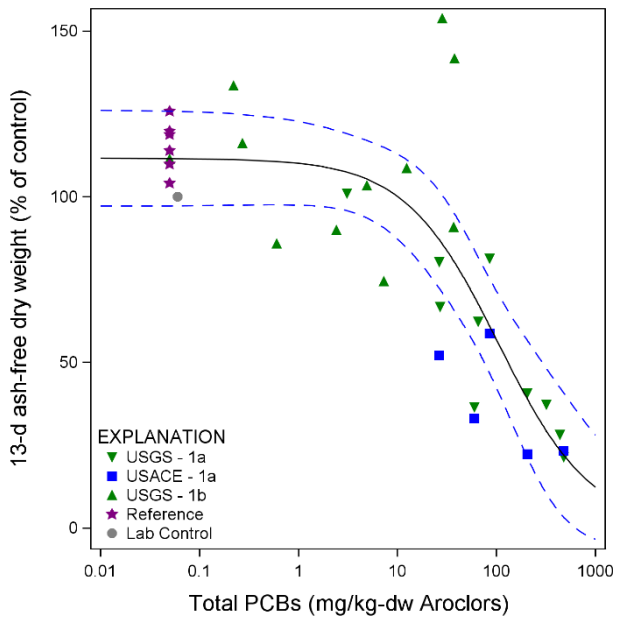
**Baseline Ecological Risk Assessment for OU-4**

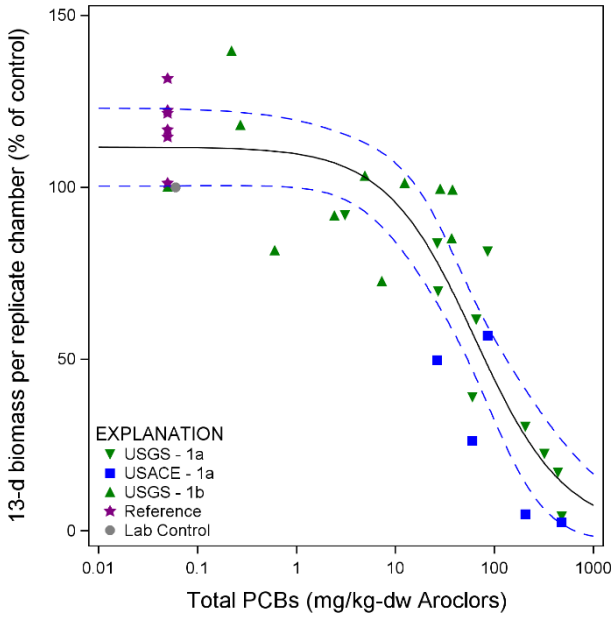
**Relationship Between Total PCB Homolog ($tPCB_H$) and Total PCB Aroclor ($tPCB_A$) Concentrations in OU-4 Sediments Collected for Toxicity Testing**

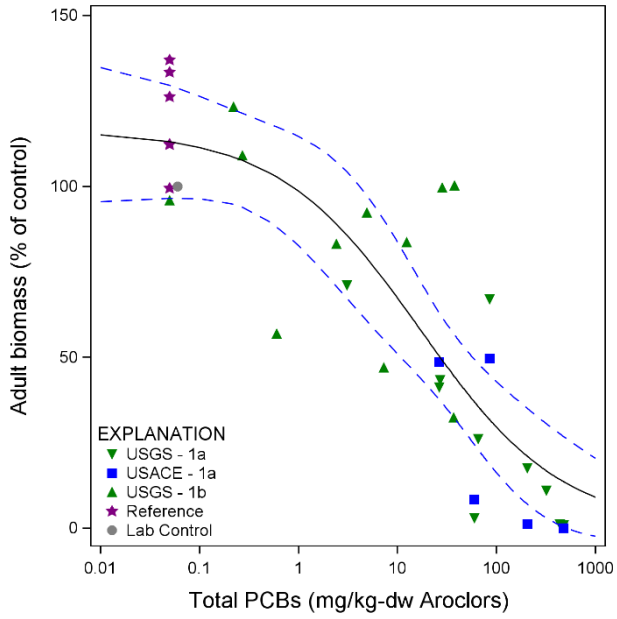
Solutia

**FIGURE C-1**




**Notes:**

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Anniston PCB Site
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**Baseline Ecological Risk Assessment for OU-4**

Response vs. Dry Weight-Normalized Total PCB Concentration (Sum of Aroclors) in OU-4 Sediment for *Chironomus dilutus* Toxicity Tests

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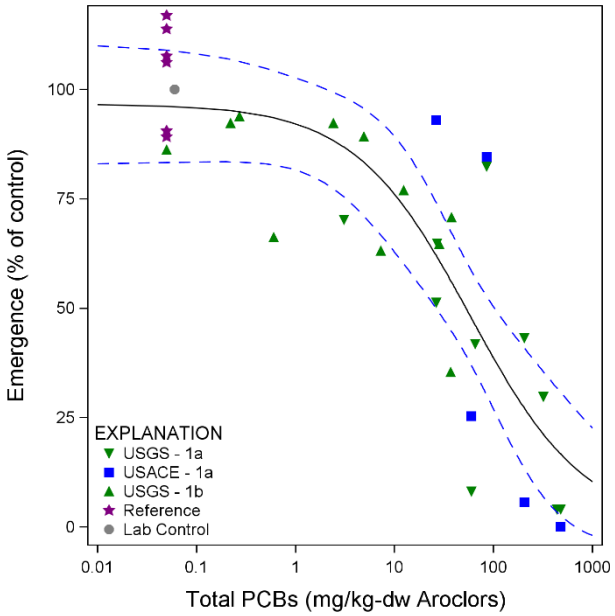
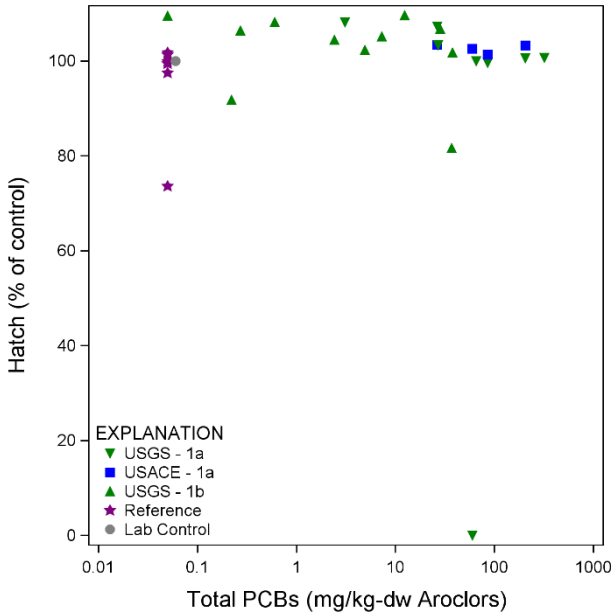
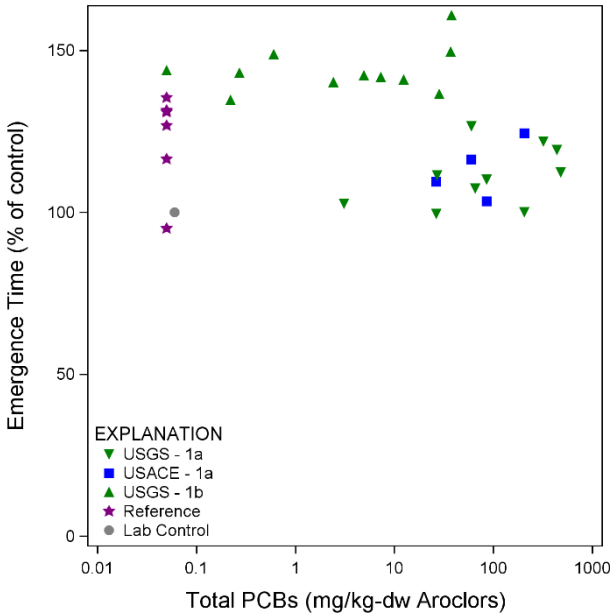
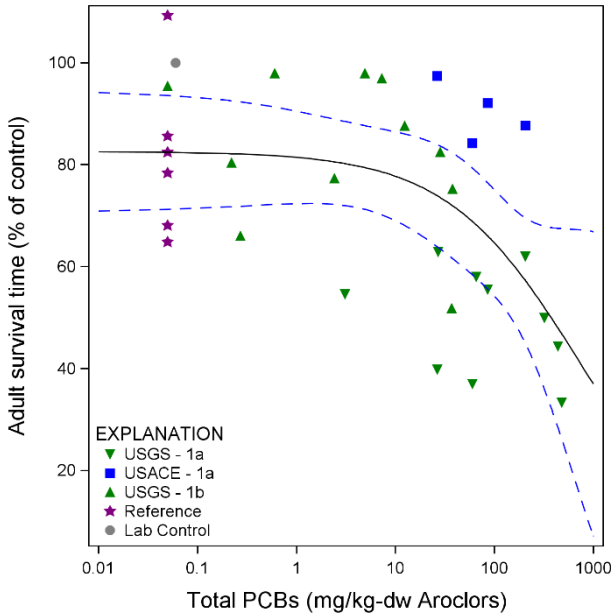
**FIGURE**
**C-2a**

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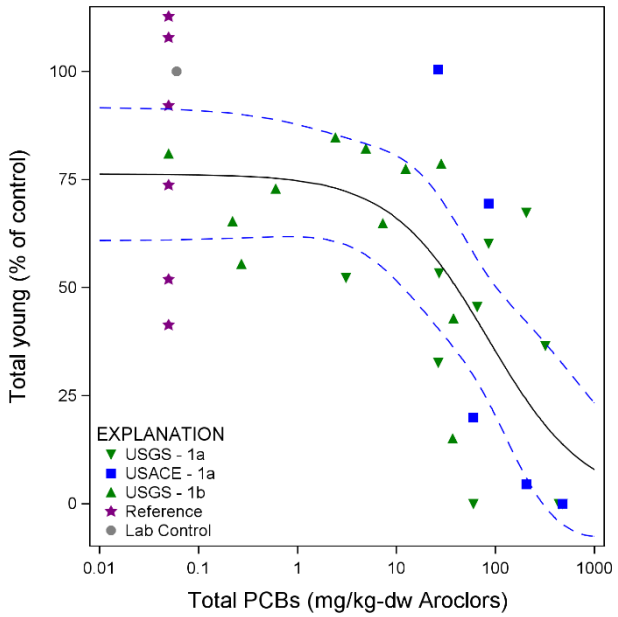
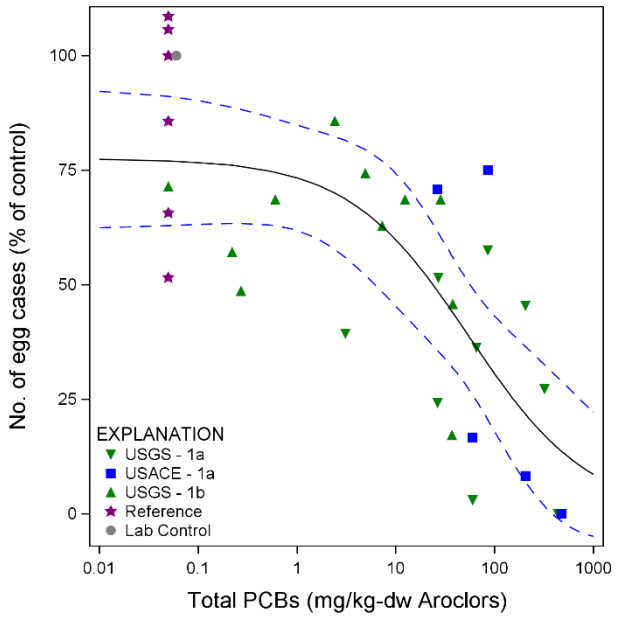
**Baseline Ecological Risk Assessment for OU-4**

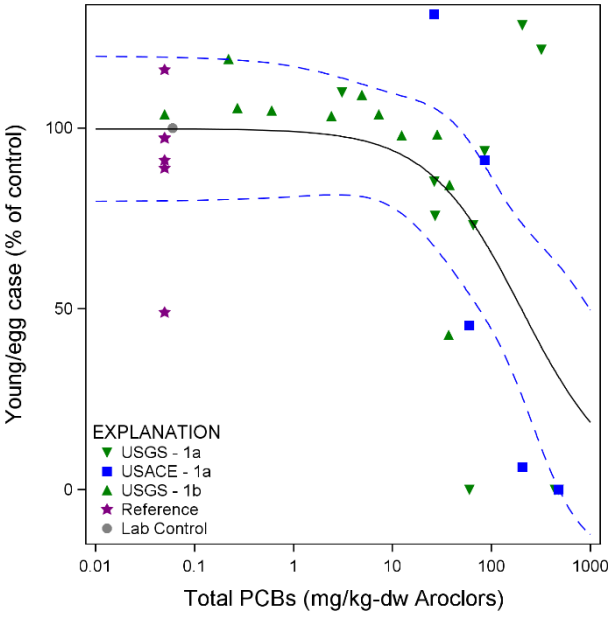
Response vs. Dry Weight-Normalized Total PCB Concentration (Sum of Aroclors) in OU-4 Sediment for *Chironomus dilutus* Toxicity Tests

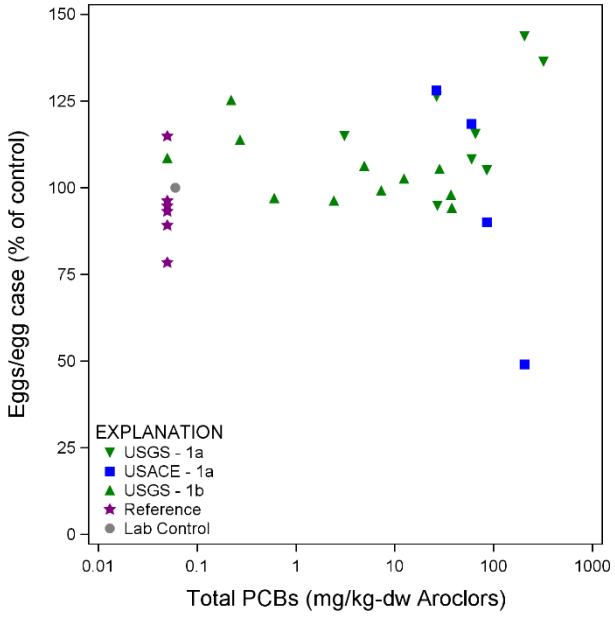
Solutia
Ingenuity Productivity Performance

**FIGURE**
**C-2b**

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**Baseline Ecological Risk Assessment for OU-4**

Response vs. Dry Weight-Normalized Total PCB Concentration (Sum of Aroclors) in OU-4 Sediment for *Chironomus dilutus* Toxicity Tests

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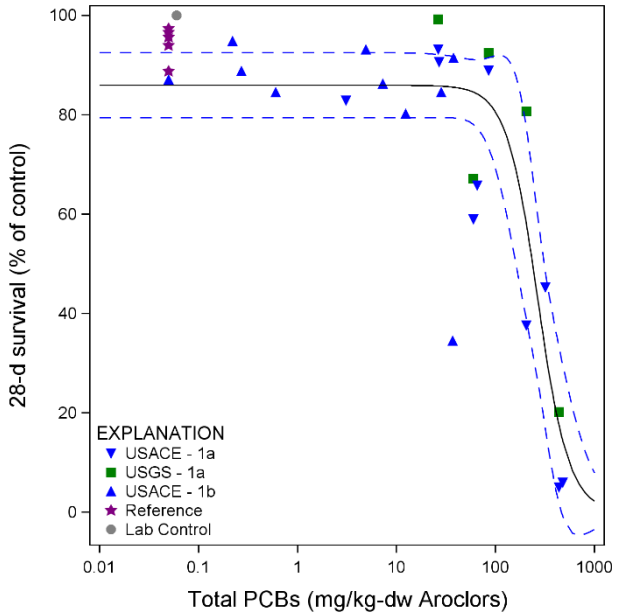
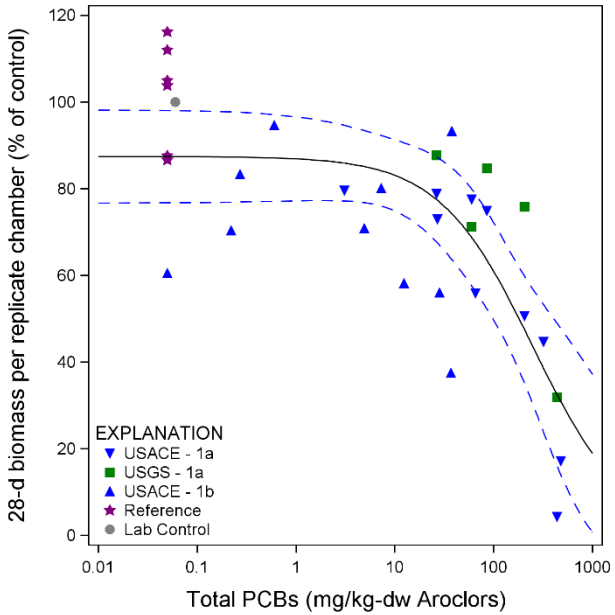
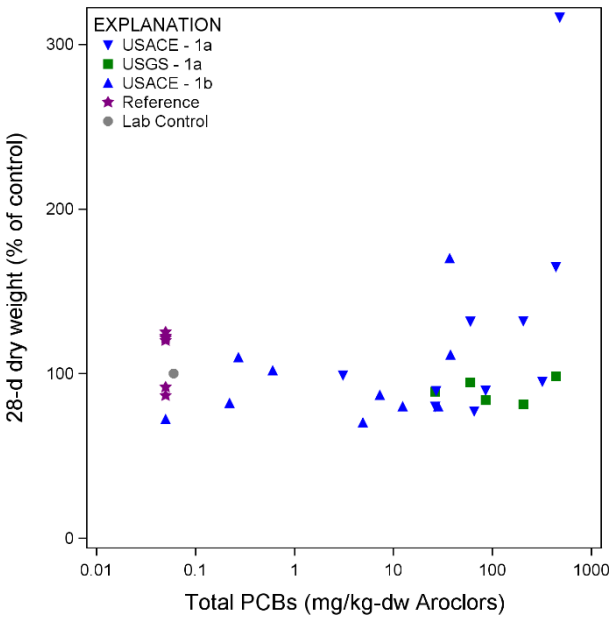
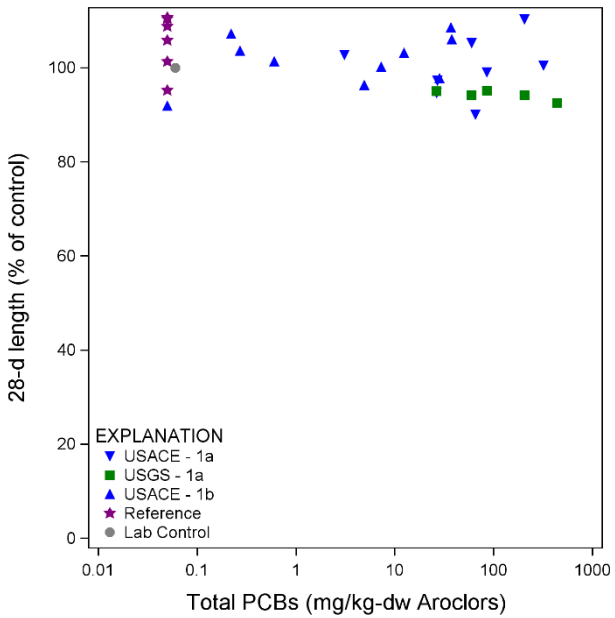
**FIGURE**
**C-2c**

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**Baseline Ecological Risk Assessment for OU-4**

Response vs. Dry Weight-Normalized Total PCB Concentration (Sum of Aroclors) in OU-4 Sediment for *Hyalella azteca* Toxicity Tests

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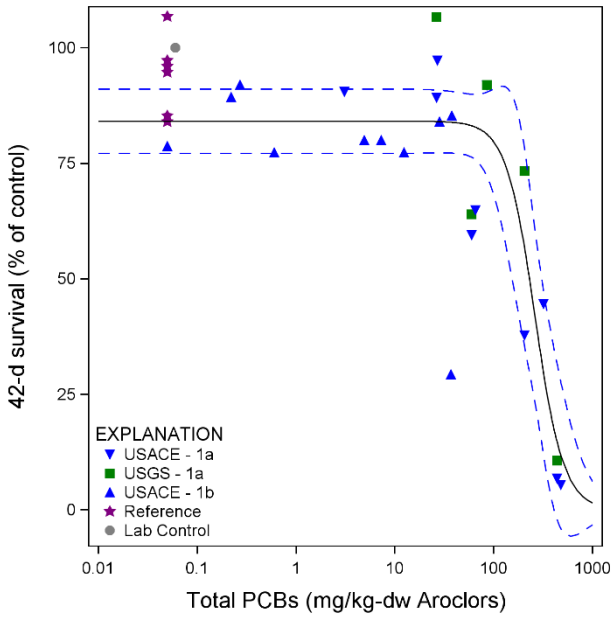
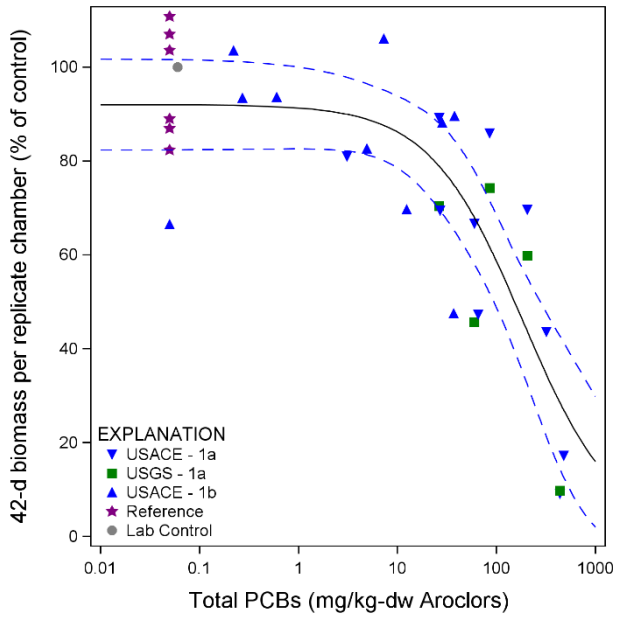
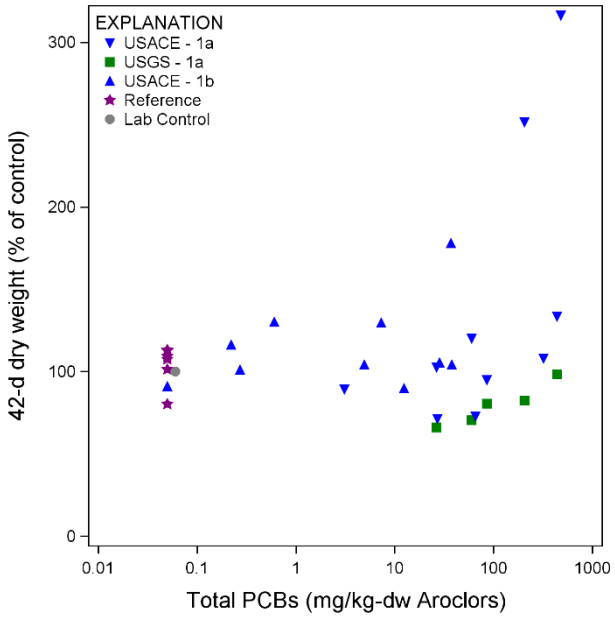
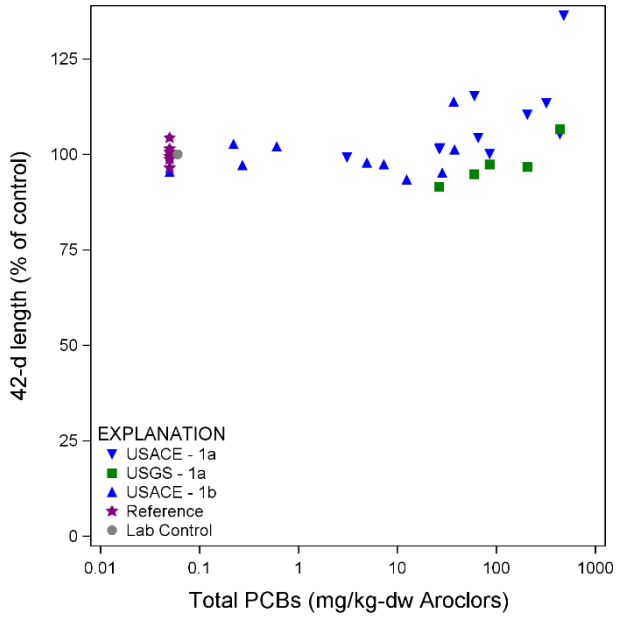
**FIGURE**
**C-3a**

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**Baseline Ecological Risk Assessment for OU-4**

Response vs. Dry Weight-Normalized Total PCB Concentration (Sum of Aroclors) in OU-4 Sediment for *Hyalella azteca* Toxicity Tests

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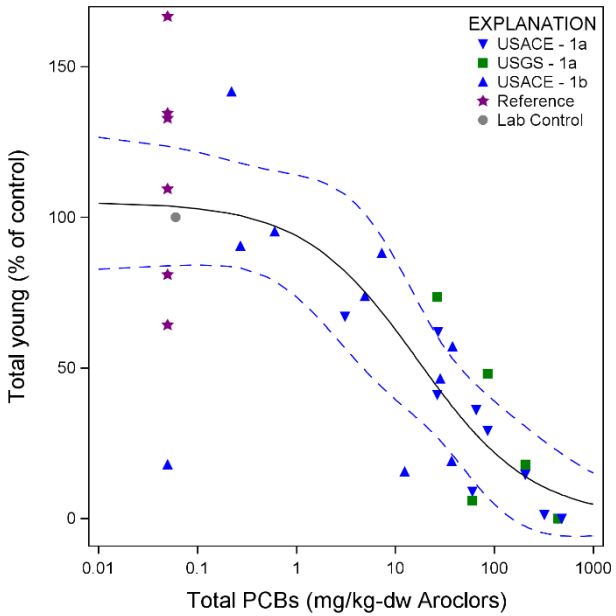
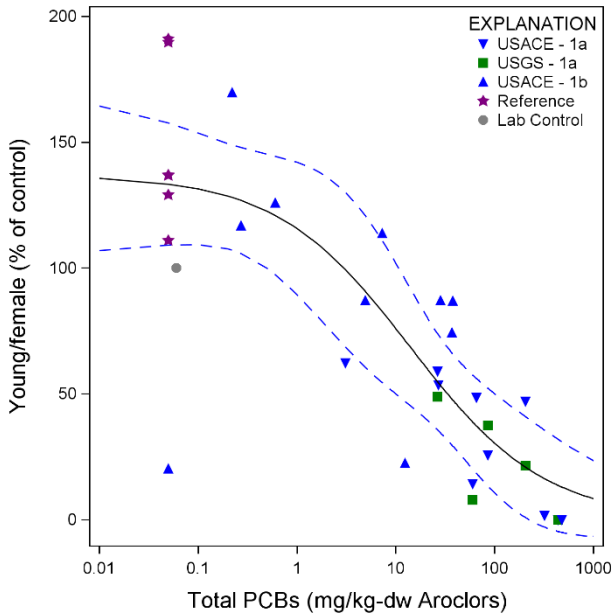
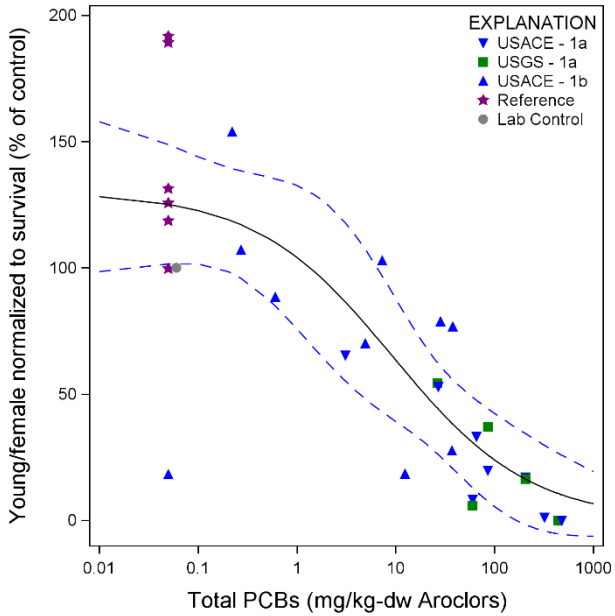
**FIGURE**
**C-3b**

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**Baseline Ecological Risk Assessment for OU-4**

Response vs. Dry Weight-Normalized Total PCB Concentration (Sum of Aroclors) in OU-4 Sediment for *Hyalella azteca* Toxicity Tests

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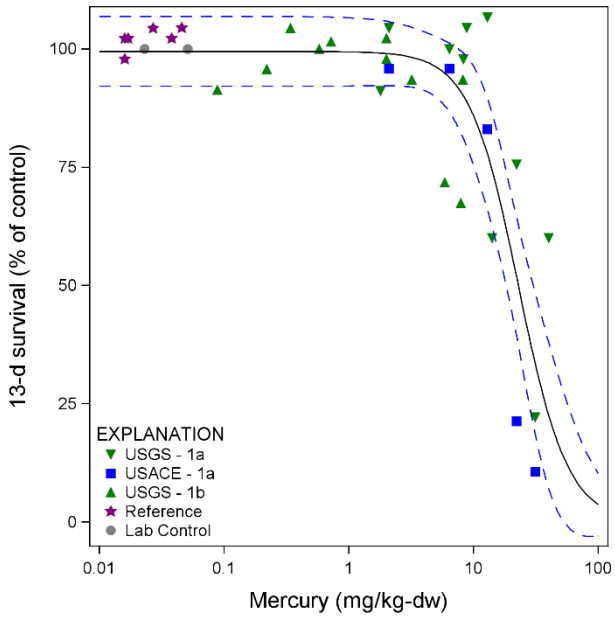
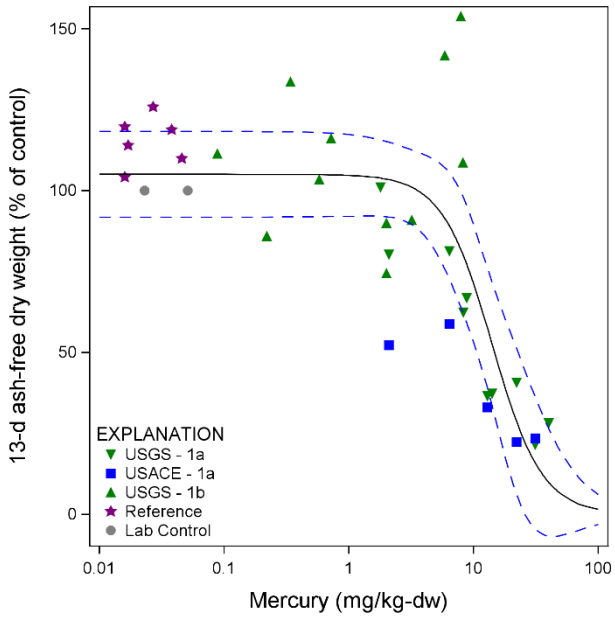
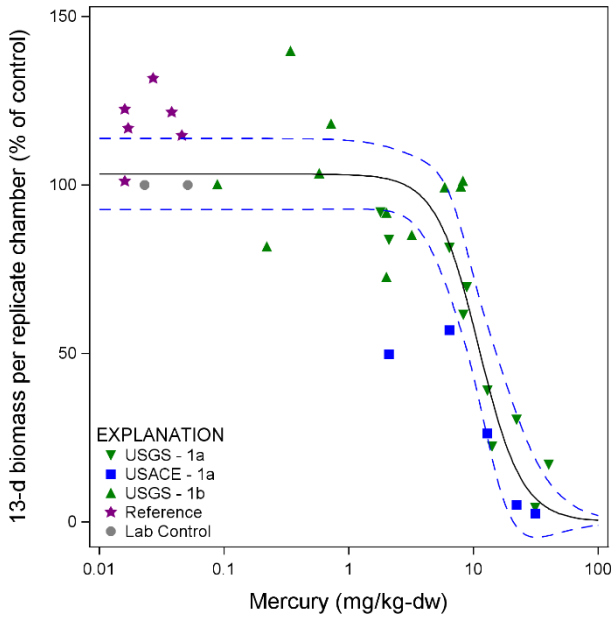
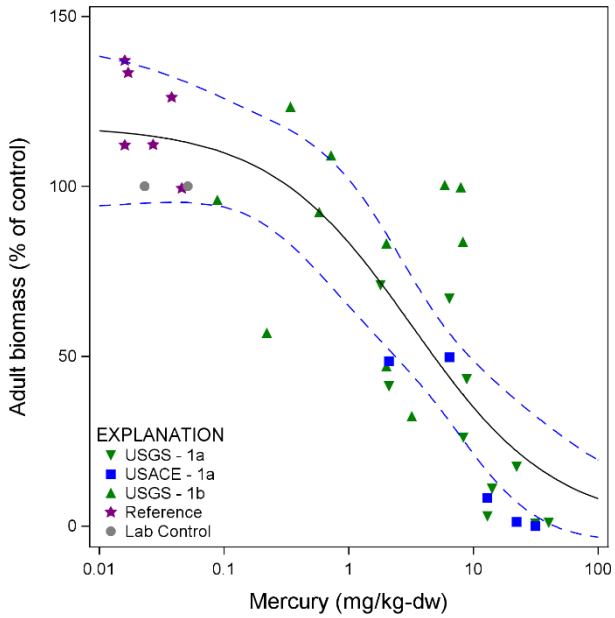
**FIGURE**
**C-3c**

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**Baseline Ecological Risk Assessment for OU-4**

Response vs. Dry Weight-Normalized Mercury Concentration in OU-4 Sediment for *Chironomus dilutus* Toxicity Tests

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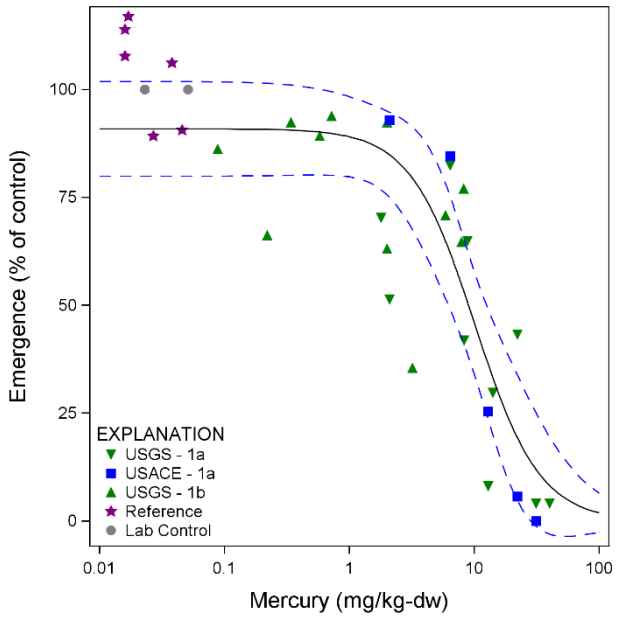
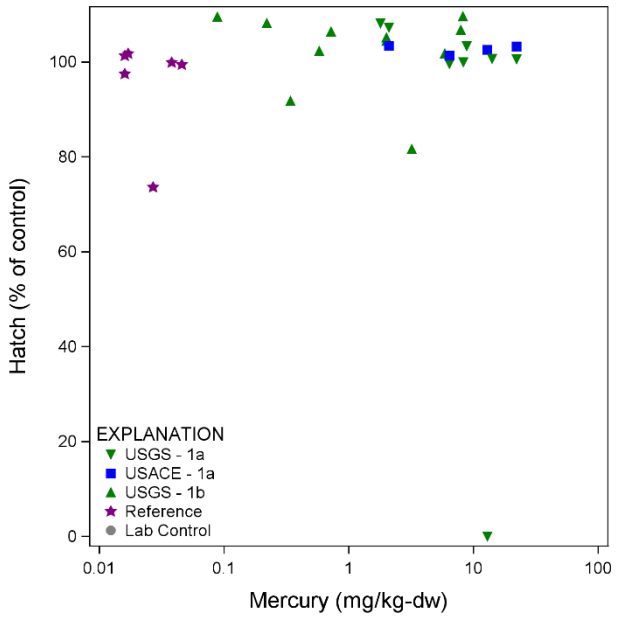
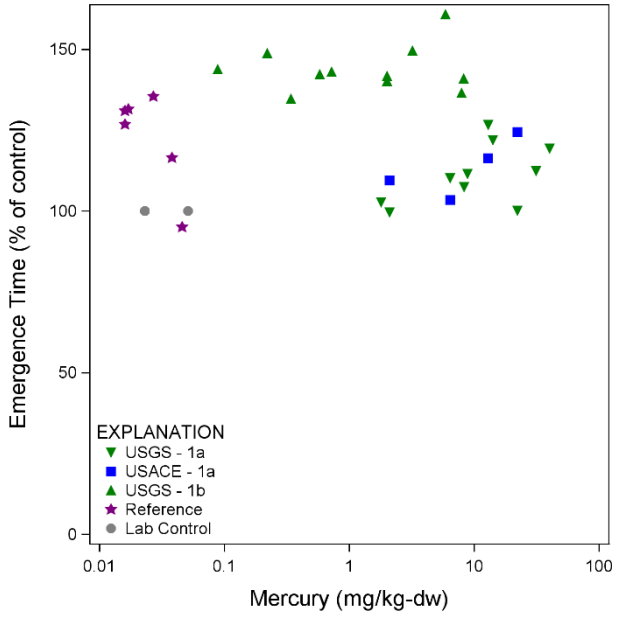
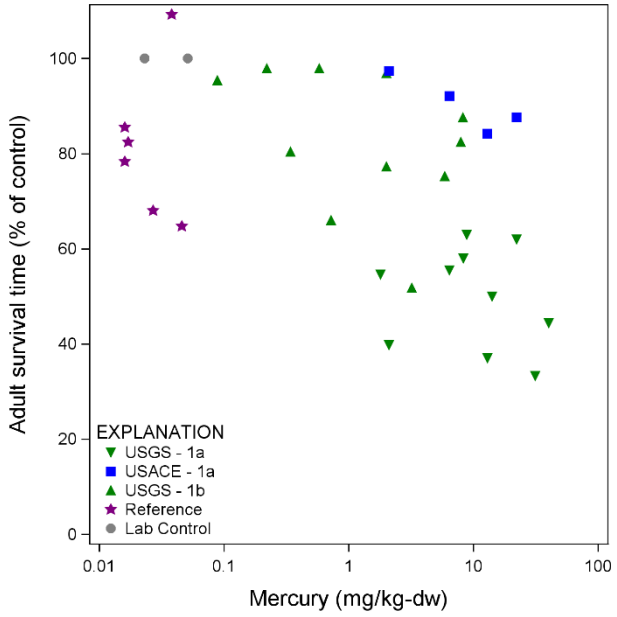
**FIGURE**
**C-4a**

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**Baseline Ecological Risk Assessment for OU-4**

Response vs. Dry Weight-Normalized Mercury Concentration in OU-4 Sediment for *Chironomus dilutus* Toxicity Tests

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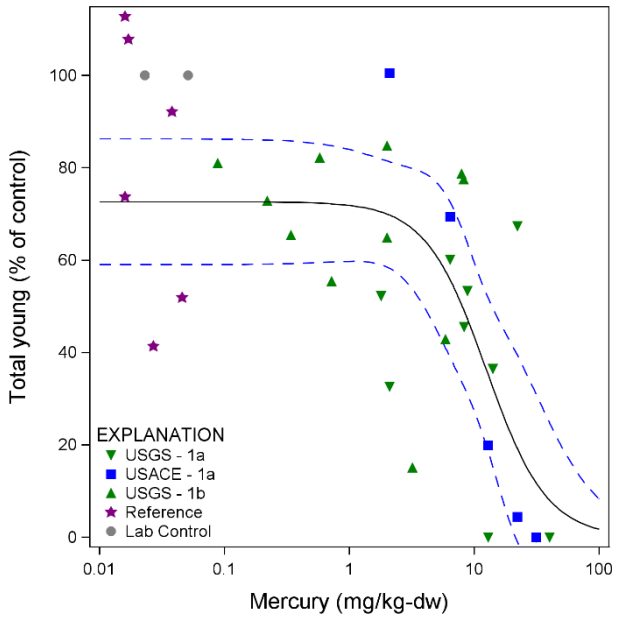
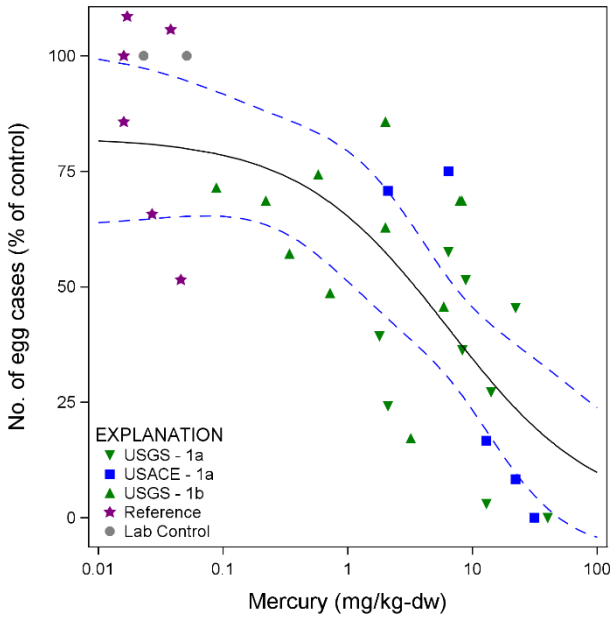
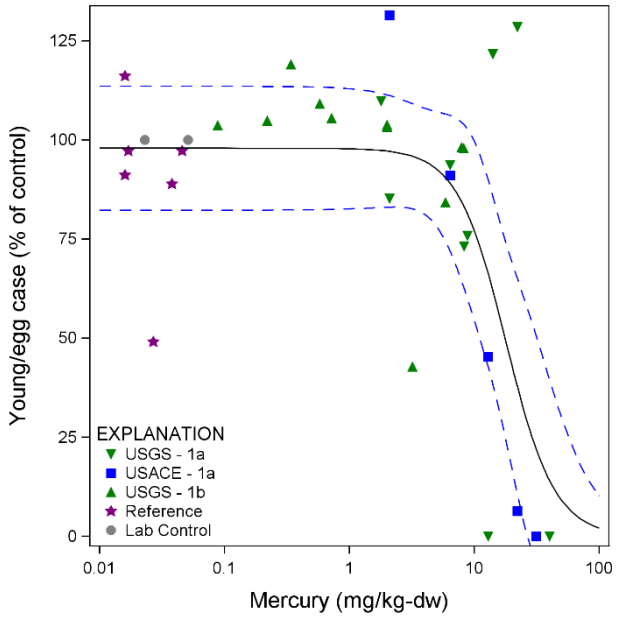
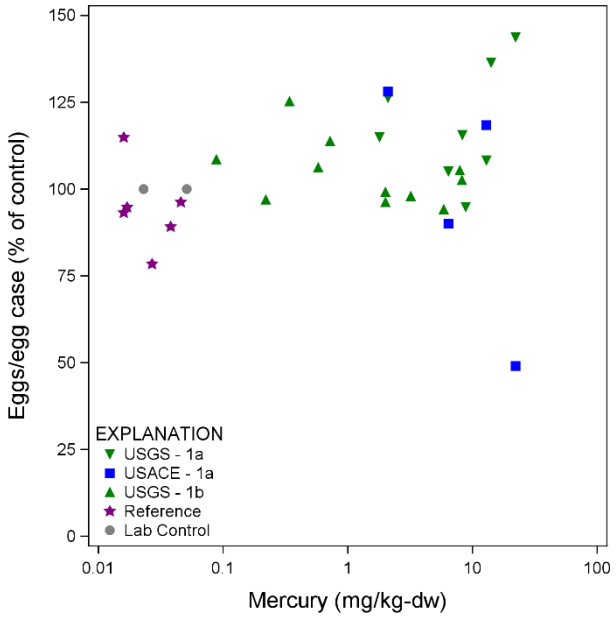
Ingenuity Productivity Performance

**FIGURE**
**C-4b**

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**Baseline Ecological Risk Assessment for OU-4**

Response vs. Dry Weight-Normalized Mercury Concentration in OU-4 Sediment for *Chironomus dilutus* Toxicity Tests

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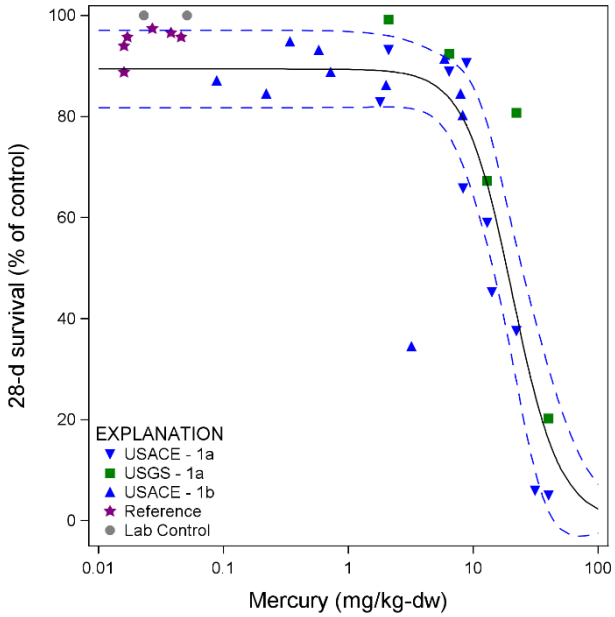
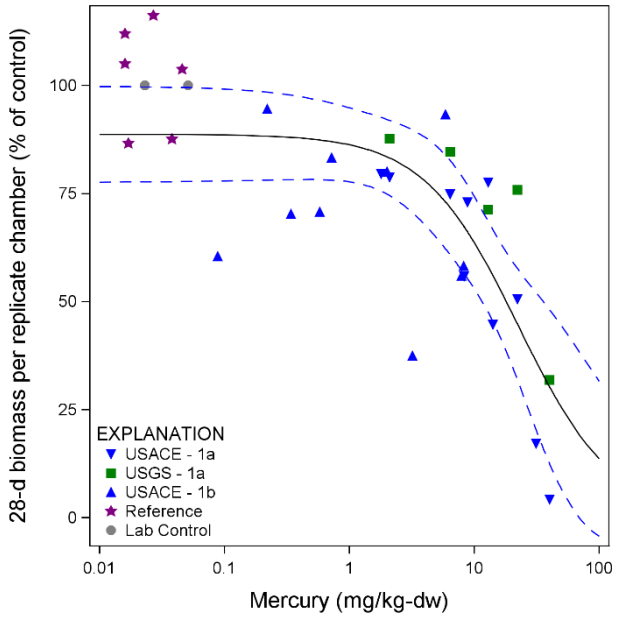
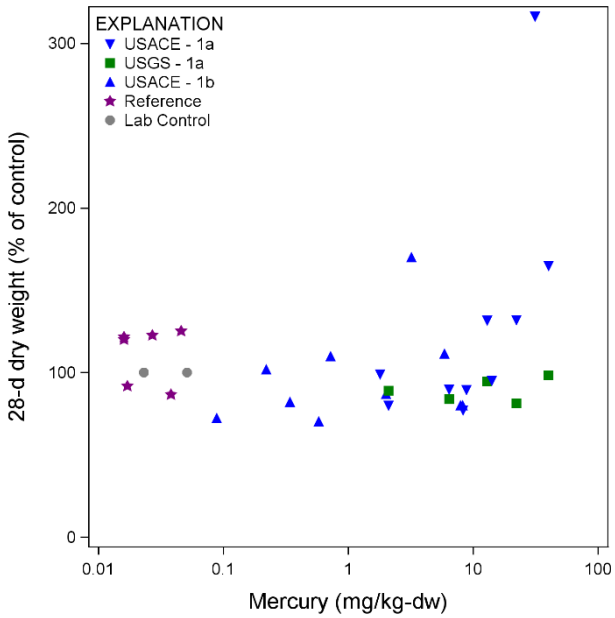
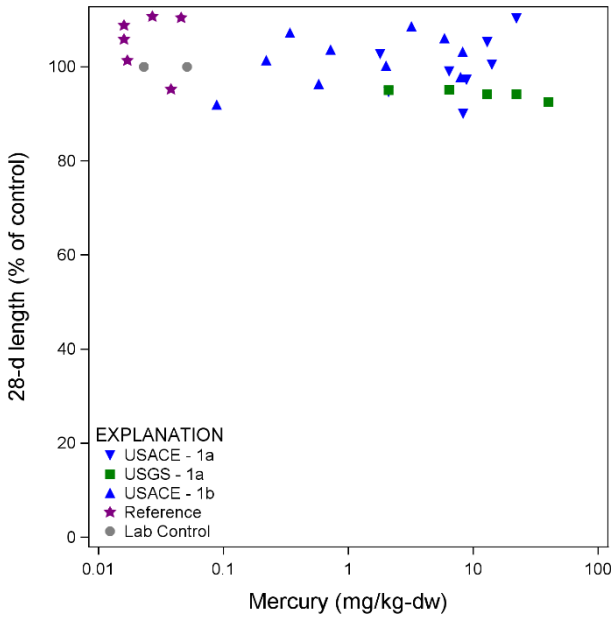
Ingenuity Productivity Performance

**FIGURE**
**C-4c**

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**Baseline Ecological Risk Assessment for OU-4**

Response vs. Dry Weight-Normalized Mercury Concentration in OU-4 Sediment for *Hyalella azteca* Toxicity Tests

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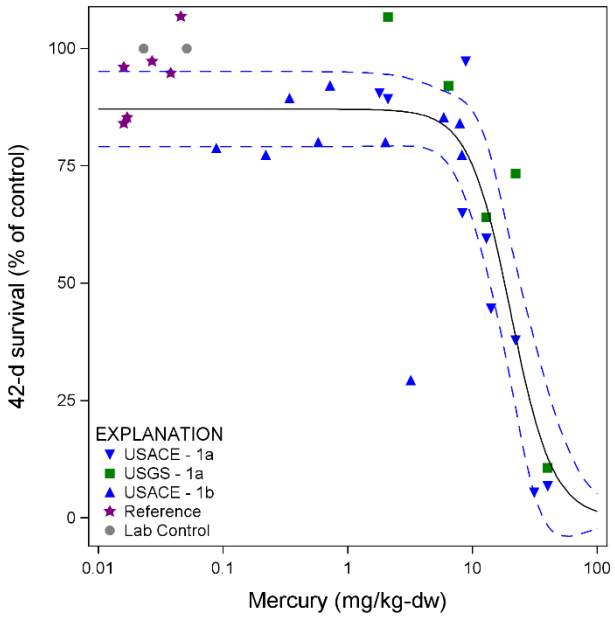
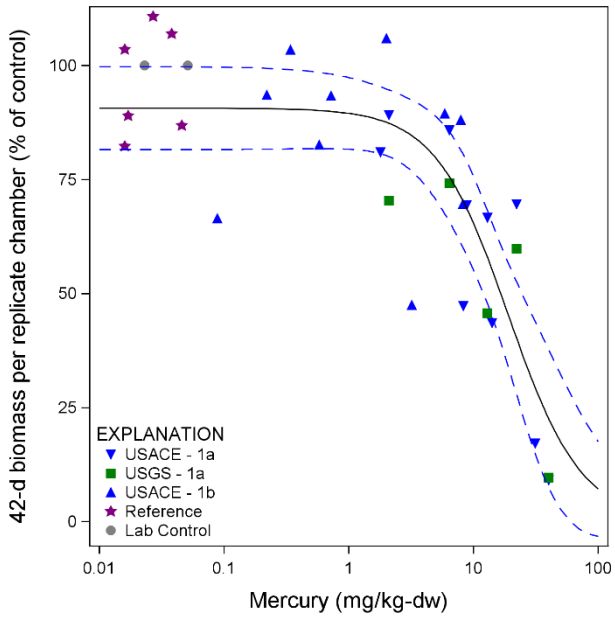
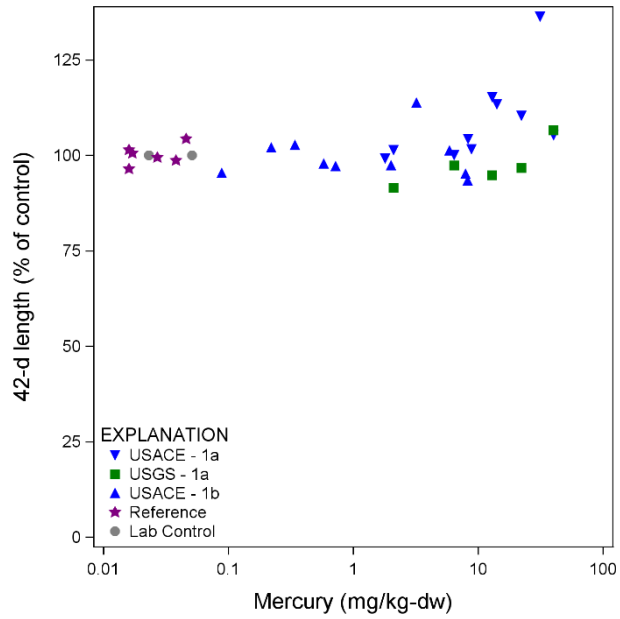
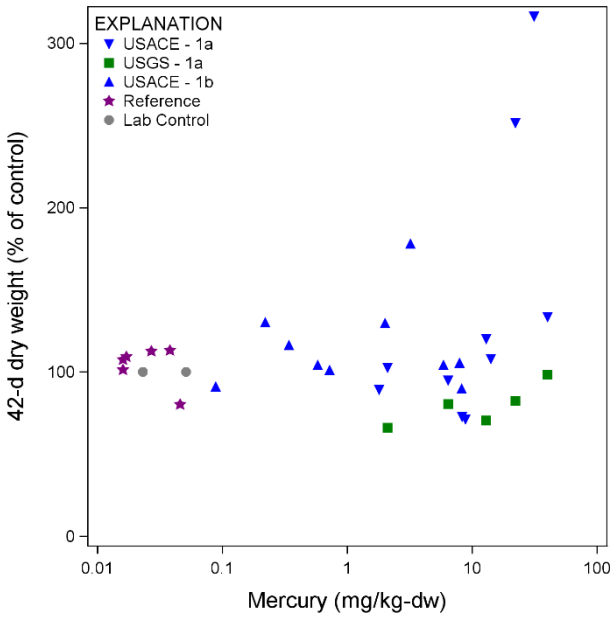
**FIGURE**
**C-5a**

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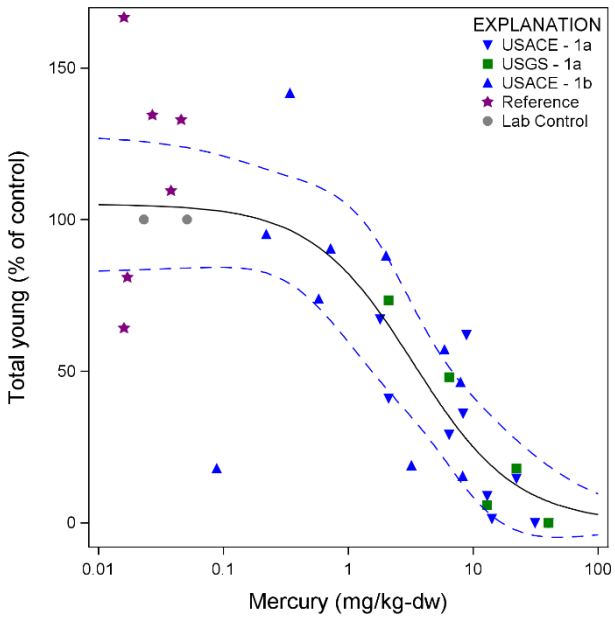
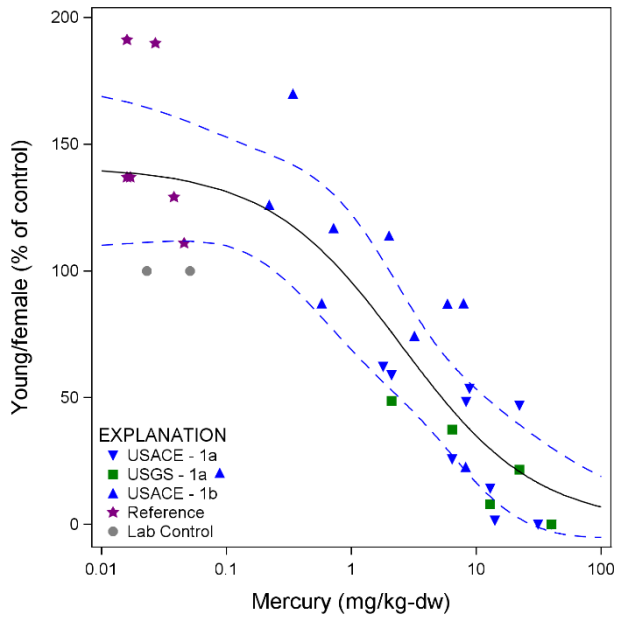
**Baseline Ecological Risk Assessment for OU-4**

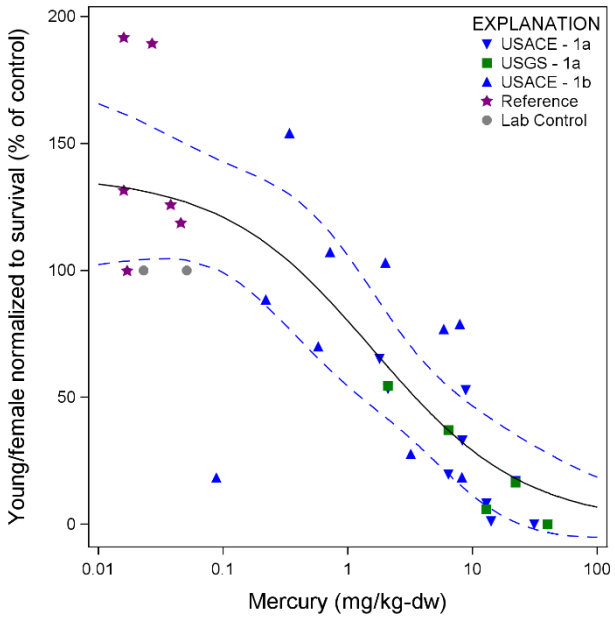
Response vs. Dry Weight-Normalized Mercury Concentration in OU-4 Sediment for *Hyalella azteca* Toxicity Tests

Solutia
Ingenuity Productivity Performance

**FIGURE**
**C-5b**




**Notes:**

Black solid line is a fitted 3-parameter non-linear logistic regression model shown when the relationship was statistically significant. Blue dashed lines are 95% confidence limits of the mean response. Response endpoints are expressed as a percent of the laboratory control response in the tested batch.
d: day
mg/kg-dw: milligrams per kilogram dry weight
%: percent
PCBs: polychlorinated biphenyls
USACE: United States Army Corps of Engineers
USGS: United States Geological Survey

Anniston PCB Site
Anniston, Alabama

**Baseline Ecological Risk Assessment for OU-4**

Response vs. Dry Weight-Normalized Mercury Concentration in OU-4 Sediment for *Hyalella azteca* Toxicity Tests

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**FIGURE**
**C-5c**

# ATTACHMENT 1

**Analytical Results for Acid Volatile Sulfide/Simultaneously Extractable Metals (AVS/SEM) and Porewater Data Collected During the OU-4 Sediment Toxicity and Bioaccumulation Tests (As Provided to Arcadis by USGS CERC)**

**Attachment 1**

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Concentrations of selected constituents in centrifuged/filtered pore waters of Cycle 1a sediment samples from Anniston PCB Site, Anniston, AL.

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Table 6. Blank equivalent concentrations (µg/g) of elements in reagent/container blanks for the pore water sample set.

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Table 1. Percent moisture, loss on ignition, acid volatile sulfide (µmol/g dry wgt), and simultaneously extracted metals (µg/g dry wgt) in Anniston sediments.

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Table 3. Concentrations of elements in a continuing calibration blank (CCB) and independent calibration verification standard (ICVS) ran every 10 samples during sediment SEM sample runs for Cu, Ni, Zn, Cd, and Pb. Results expressed as ng/mL.

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Table 13. Spike recoveries for 1N HCL extracted blanks.

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Table 15. Percent recoveries of AVS and SEMs in post-extraction spikes.

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Table 17. Interference checks for elements using dilution percent difference.

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Anniston Cycle 1a SPME PCB Data – Midge

Anniston Cycle 1a SPME PCB Data – Hyalella

Anniston Cycle 1a SPME PCB Data – Lumbriculus

Anniston Cycle 1b SPME PCB Data – Midge

Anniston Cycle 1b SPME PCB Data – Hyalella

Anniston Cycle 1b SPME PCB Data – Lumbriculus

**Note:**

**Files received in Excel format in e-mail from C. Ingersoll to H. Douglas 6/8/2011 and from Jeffery Stevens on 8/4/2011. Files were modified to include relevant data and formatted to print.**

**Concentrations of selected constituents in centrifuged/filtered pore waters of Cycle 1a sediment samples from Anniston PCB Site, Anniston, AL.**

Samples collected 10-20-2010 and 10-21-2010. All concentrations in mg/L.

| Field ID | CERC ID | DOC | $S^{2-}$ | Ca | Fe | K | Mg | Mn | Na | Sr | $F^-$ | $Cl^-$ | $NO_3^-$ | $SO_4^{2-}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TX40-04-P | 01 | 13.2 | <0.01 | 25.4 | 23.5 | 2.7 | 10.1 | 1.3 | 2.7 | 0.079 | 0.3 | 3.8 | <0.1 | 21.1 |
| TX60-03-P | 06 | 9.8 | <0.01 | 53.0 | 14.0 | 2.1 | 12.8 | 1.5 | 3.0 | 0.100 | <0.1 | 3.8 | <0.1 | 7.9 |
| TX30-03-P | 07 | 17.7 | <0.01 | 65.9 | 13.9 | 5.8 | 22.5 | 1.4 | 4.2 | 0.243 | 0.3 | 14.8 | <0.1 | 8.8 |
| TX50-01-P | 08 | 61.8 | <0.01 | 71.9 | 20.4 | 4.2 | 25.6 | 2.5 | 3.8 | 0.222 | 0.3 | 20.0 | <0.1 | 9.5 |
| TXR1-02-P | 09 | 9.3 | <0.01 | 45.5 | 13.4 | 3.0 | 20.9 | 10.7 | 2.4 | 0.101 | 0.1 | 2.9 | <0.1 | 20.6 |
| TX50-04-P | 11 | 13.8 | <0.01 | 49.9 | 19.5 | 3.2 | 15.6 | 1.9 | 3.3 | 0.182 | 0.3 | 5.1 | <0.1 | 24.9 |
| TX60-04-P | 13 | 11.9 | <0.01 | 33.6 | 17.2 | 2.3 | 12.3 | 1.7 | 3.4 | 0.125 | 0.2 | 4.4 | <0.1 | 4.6 |
| TX30-02-P | 18 | 19.2 | <0.01 | 86.5 | 20.3 | 6.8 | 35.5 | 1.2 | 4.7 | 0.272 | 0.3 | 41.4 | <0.1[a] | 7.2 |
| TX50-02-P | 19 | 81.8 | <0.01 | 84.6 | 16.0 | 5.9 | 30.8 | 2.2 | 4.4 | 0.247 | 0.3 | 44.7 | <0.1[a] | 3.3 |
| TX60-02-P | 20 | 12.6 | <0.01 | 30.1 | 4.6 | 2.3 | 15.9 | 0.7 | 3.8 | 0.132 | 0.3 | 4.3 | <0.1 | 1.8 |
| TX30-01-P | 25 | 16.7 | <0.01 | 43.6 | 15.3 | 3.7 | 15.1 | 1.5 | 3.1 | 0.201 | 0.3 | 7.1 | <0.1 | 8.5 |
| TX40-01-P | 27 | 60.4 | <0.01 | 15.0 | 28.0 | 3.2 | 6.8 | 2.5 | 9.6 | 0.080 | 0.6 | 4.8 | 0.1 | 8.2 |
| TX20-01-P | 28 | 11.4 | <0.01 | 56.6 | 36.1 | 10.8 | 18.9 | 15.4 | 7.2 | 0.132 | 0.1 | 7.6 | <0.1 | 1.9 |
| TX50-05-P | 30 | 11.7 | <0.01 | 64.8 | 16.8 | 2.8 | 17.4 | 4.7 | 3.3 | 0.222 | 0.4 | 6.3 | <0.1[a] | 10.2 |
| Control (WB) | 33 | 98.6 | 0.01 | 46.1 | 14.9 | 3.3 | 16.7 | 24.6 | 7.1 | 0.165 | 0.3 | 3.4 | <0.1 | 9.3 |
| BLK-1A | Filter/bottle blank | 0.4 | <0.01 | <0.1 | <0.02 | <0.1 | 0.0 | <0.002 | 1.1 | <0.0005 | 0.1 | 0.2 | <0.1 | <0.1 |

Notes:

[a] analysis of sample exceeded recommended holding time of 48 hours for nitrate (by approx 48 hours).

**Concentrations of selected constituents in filtered pore waters of Cycle 1b sediment samples from Anniston PCB Site, Anniston, AL.**

All samples collected 1/10/2011. All concentrations in mg/L

| Field ID | CERC ID | DOC | $S^{2-}$ | Ca | Fe | K | Mg | Mn | Na | Sr | $F^-$ | $Cl^-$ | $NO_3^-$ | $SO_4^{2-}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TX30-05-P | 02 | 5.4 | <0.01 | 44.2 | 16.1 | 2.1 | 15.9 | 2.44 | 3.6 | 0.295 | 0.16 | 4.2 | nm | 28.9 |
| TXR1-03-P | 04 | 6.9 | <0.01 | 59.2 | 3.93 | 3.0 | 30.5 | 12.8 | 3.7 | 0.105 | <0.10 | 3.0 | nm | 1.7 |
| TXR1-06-P | 10 | 8.4 | <0.01 | 50.3 | 28.3 | 4.0 | 17.7 | 17.5 | 3.4 | 0.153 | <0.10 | 2.8 | nm | 1.2 |
| TX60-04-P | 13 | 8.3 | <0.01 | 28.5 | 17.8 | 1.7 | 10.7 | 1.62 | 3.4 | 0.0957 | 0.11 | 5.0 | nm | 24.1 |
| TX40-05-P | 14 | 14.4 | <0.01 | 48.4 | 19.2 | 2.5 | 13.3 | 0.88 | 2.9 | 0.115 | 0.11 | 4.3 | nm | 11.9 |
| TX40-03-P | 15 | 25.1 | <0.01 | 20.2 | 27.9 | 5.5 | 8.69 | 2.25 | 7.8 | 0.0991 | 0.27 | 5.7 | nm | 2.4 |
| TX10-01-P | 16 | 0.4 | <0.01 | 11.6 | <0.02 | <0.1 | 2.06 | 0.04 | 3.3 | 0.028 | <0.10 | 5.5 | nm | 32.7 |
| TX40-02-P | 17 | 14.7 | 0.02 | 21.2 | 25.0 | 2.3 | 7.24 | 2.11 | 2.8 | 0.066 | <0.10 | 4.3 | nm | 9.9 |
| TX60-02-P | 20 | 5.6 | <0.01 | 27.1 | 2.34 | 1.8 | 15.2 | 0.72 | 3.6 | 0.113 | 0.10 | 5.0 | nm | 70.0 |
| TX60-01-P | 21 | 4.4 | <0.01 | 30.4 | 0.03 | 1.1 | 21.3 | 0.17 | 3.1 | 0.107 | <0.10 | 4.2 | nm | 26.8 |
| TXR1-04-P | 22 | 8.7 | <0.01 | 65.4 | 2.27 | 3.3 | 34.5 | 8.77 | 3.4 | 0.118 | <0.10 | 3.6 | nm | 2.7 |
| TX30-04-P | 23 | 8.0 | <0.01 | 31.1 | 17.8 | 2.0 | 12.5 | 1.64 | 3.4 | 0.181 | 0.16 | 4.7 | nm | 24.0 |
| TX20-03-P | 24 | 4.9 | <0.01 | 58.2 | 5.06 | 4.9 | 18.4 | 13.8 | 7.3 | 0.115 | <0.10 | 7.9 | nm | 1.1 |
| TXR1-01-P | 26 | 4.5 | <0.01 | 44.0 | 3.08 | 3.4 | 20.9 | 5.38 | 3.4 | 0.0977 | <0.10 | 3.7 | nm | 3.0 |
| TX40-01-P | 27 | 13.3 | <0.01 | 13.0 | 26.4 | 2.1 | 6.18 | 2.44 | 6.8 | 0.0542 | 0.17 | 4.0 | nm | 13.2 |
| TX20-01-P | 28 | 7.0 | <0.01 | 47.9 | 13.0 | 9.9 | 17.1 | 11.9 | 8.0 | 0.108 | <0.10 | 9.5 | nm | 1.3 |
| TXR1-05-P | 29 | 8.9 | <0.01 | 45.2 | 6.82 | 2.4 | 23.9 | 2.78 | 3.2 | 0.0754 | <0.10 | 2.7 | nm | 2.3 |
| Control (WB) | 33 | 13.9 | <0.01 | 29.0 | 11.0 | 1.7 | 11.2 | 15.7 | 7.8 | 0.104 | 0.11 | 3.5 | nm | 104 |
| BLK 1B | Filter Blank | 0.16 | <0.01 | <0.1 | <0.02 | <0.1 | <0.01 | <0.002 | 0.6 | <0.0005 | <0.10 | 0.3 | nm | 0.7 |

**Comparison of selected constituents in centrifuged/filtered pore waters obtained from repeated sub-sampling of sediments from Anniston PCB Site, Anniston, AL.**

| Field ID | CERC ID | Cycle/Test | Sampling Date | DOC | $S^{2-}$ | Ca | Fe | K | Mg | Mn | Na | Sr | $F^-$ | $Cl^-$ | $NO_3^-$ | $SO_4^{2-}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TX60-04-P | 13 | 1a | 10/20/2010 | 11.9 | <0.01 | 33.6 | 17.2 | 2.3 | 12.3 | 1.7 | 3.4 | 0.125 | 0.20 | 4.4 | <0.1 | 4.6 |
| TX60-04-P | 13 | 1b | 1/10/2011 | 8.3 | <0.01 | 28.5 | 17.8 | 1.7 | 10.7 | 1.6 | 3.4 | 0.096 | 0.11 | 5.0 | nm | 24.1 |
| TX60-02-P | 20 | 1a | 10/20/2010 | 12.6 | <0.01 | 30.1 | 4.6 | 2.3 | 15.9 | 0.7 | 3.8 | 0.132 | 0.30 | 4.3 | <0.1 | 1.8 |
| TX60-02-P | 20 | 1b | 1/10/2011 | 5.6 | <0.01 | 27.1 | 2.3 | 1.8 | 15.2 | 0.7 | 3.6 | 0.113 | 0.10 | 5.0 | nm | 70.0 |
| TX40-01-P | 27 | 1a | 10/20/2010 | 60.4 | <0.01 | 15.0 | 28.0 | 3.2 | 6.8 | 2.5 | 9.6 | 0.080 | 0.60 | 4.8 | 0.1 | 8.2 |
| TX40-01-P | 27 | 1b | 1/10/2011 | 13.3 | <0.01 | 13.0 | 26.4 | 2.1 | 6.18 | 2.4 | 6.8 | 0.054 | 0.17 | 4.0 | nm | 13.2 |
| TX20-01-P | 28 | 1a | 10/20/2010 | 11.4 | <0.01 | 56.6 | 36.1 | 10.8 | 18.9 | 15.4 | 7.2 | 0.132 | 0.10 | 7.6 | <0.1 | 1.9 |
| | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TX20-01-P | 28 | 1b | 1/10/2011 | 7.0 | <0.01 | 47.9 | 13.0 | 9.9 | 17.1 | 11.9 | 8.0 | 0.108 | <0.10 | 9.5 | nm | 1.3 |
| Control (WB) | 33 | 1a | 10/20/2010 | 98.6 | 0.01 | 46.1 | 14.9 | 3.3 | 16.7 | 24.6 | 7.1 | 0.165 | 0.30 | 3.4 | <0.1 | 9.3 |
| Control (WB) | 33 | 1b | 1/10/2011 | 13.9 | <0.01 | 29.0 | 11.0 | 1.7 | 11.2 | 15.7 | 7.8 | 0.104 | 0.11 | 3.5 | nm | 104 |

Anniston sediment cycle 1a toxicity testing, Day-21 pore-water element concentrations.
Samples obtained using in-situ peeper samplers; measurements using ICPMS semiquantitative scan. Values in bold type = CERC samples; non-bold=ERDC samples.

| | | **Peeper Blanks** | | | | | | | | **Test species and sediment-peeper ID** | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CERC | | | ERDC | | | | | | | | |
| Element | units | **Blk-1** | **Blk-2** | **Blk-3** | Blk-1 | Blk-2 | Blk-3 | Blk-4 | Blk-5 | **Midge-1** | HA-1 | **Midge-6** | HA-6 |
| Na | mg/L | **5** | **5** | **5** | 6 | 6 | 6 | 6 | 6 | **5** | 8 | **5** | 10 |
| Mg | mg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **4** | 4 | **5** | 4 |
| K | mg/L | **0.6** | **< 0.1** | **0.1** | 0.1 | < 0.1 | 0.2 | 0.1 | 0.1 | **2** | 2 | **1** | 2 |
| Ca | mg/L | **0.1** | **< 0.1** | **0.1** | 0.2 | 0.1 | < 0.1 | 0.1 | 0.2 | **15** | 12 | **23** | 19 |
| | | | | | | | | | | | | | |
| Al | µg/L | **15** | **9** | **17** | 15 | 13 | 20 | 13 | 12 | **19** | 120 | **3** | 24 |
| Li | µg/L | **0.3** | **< 0.1** | **0.3** | 0.2 | 0.2 | < 0.1 | 0.1 | 0.3 | **0.2** | 0.9 | **0.5** | < 0.1 |
| Be | µg/L | **0.2** | **< 0.1** | **0.2** | < 0.1 | 0.2 | < 0.1 | < 0.1 | 0.2 | **0.2** | 0.9 | **0.5** | < 0.1 |
| Ti | µg/L | **2** | **0.7** | **3** | 0.3 | 1 | 3 | < 0.1 | 1 | **4** | 5 | **5** | 6 |
| V | µg/L | **0.5** | **0.5** | **1** | 0.9 | 0.9 | 0.7 | 0.5 | 0.5 | **2** | 2 | **0.4** | 1 |
| Cr | µg/L | **10** | **4** | **10** | 10 | 7 | < 0.1 | 5 | 7 | **5** | 9 | **6** | 9 |
| Mn | µg/L | **29** | **15** | **14** | 9 | 8 | 10 | 9 | 7 | **930** | 960 | **720** | 630 |
| Fe | µg/L | **16** | **< 1** | **120** | < 1 | < 1 | < 1 | < 1 | < 1 | **14,900** | 14,300 | **9,100** | 8,100 |
| Co | µg/L | **0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | **2** | 3 | **1** | 1 |
| Ni | µg/L | **1** | **1** | **0.9** | 0.7 | 0.9 | 1 | 1 | 0.7 | **2** | 3 | **2** | 2 |
| Cu | µg/L | **1** | **0.8** | **1** | 1 | 1 | 1 | 2 | 6 | **1** | 2 | **4** | 0.7 |
| Zn | µg/L | **16** | **15** | **15** | 24 | 23 | 16 | 22 | 21 | **5** | 13 | **7** | 9 |
| Ga | µg/L | **< 0.1** | **0.1** | **< 0.1** | 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 | **0.1** | 0.2 | **0.3** | 0.3 |
| Ge | µg/L | **0.1** | **< 0.1** | **< 0.1** | 0.2 | < 0.1 | < 0.1 | 0.2 | < 0.1 | **0.1** | 0.3 | **0.3** | 0.1 |
| As* | µg/L | **0.5** | **0.1** | **0.4** | < 0.1 | 0.1 | 0.9 | < 0.1 | 0.7 | **24** | 21 | **14** | 15 |
| Rb | µg/L | **0.4** | **0.1** | **0.1** | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **5** | 6 | **3** | 3 |
| Sr | µg/L | **< 1** | **< 1** | **< 1** | < 1 | < 1 | < 1 | < 1 | < 1 | **48** | 41 | **49** | 35 |
| Y | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | **0.1** | 0.4 | **< 0.1** | < 0.1 |
| Zr | µg/L | **< 0.1** | **< 0.1** | **0.3** | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 |
| Nb | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Mo | µg/L | **0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **1** | 5 | **0.8** | 3 |
| Ru | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pd | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ag | µg/L | **0.7** | **0.2** | **0.4** | 0.3 | 0.3 | 0.6 | 0.2 | 0.2 | **0.3** | 0.6 | **0.3** | 0.2 |
| Cd | µg/L | **0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 |
| In | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Sn | µg/L | **3** | **2** | **< 0.1** | 0.8 | 1 | 3 | 1 | 1 | **0.5** | 0.9 | **0.6** | < 0.1 |
| Sb | µg/L | **0.4** | **0.2** | **0.1** | < 0.1 | 0.1 | 0.4 | < 0.1 | < 0.1 | **0.1** | 0.1 | **0.1** | 0.1 |
| Te | µg/L | **0.4** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | 0.4 | < 0.1 | < 0.1 | **< 0.1** | 0.2 | **< 0.1** | < 0.1 |
| Cs | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ba | µg/L | **< 1** | **< 1** | **< 1** | < 1 | < 1 | < 1 | < 1 | < 1 | **250** | 310 | **73** | 61 |
| La | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **0.1** | 0.4 | **< 0.1** | < 0.1 |
| Ce | µg/L | **0.4** | **0.3** | **0.3** | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | **0.4** | 1 | **0.3** | 0.2 |
| Pr | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 |
| Nd | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **0.1** | 0.5 | **0.1** | < 0.1 |
| Sm | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 |
| Eu | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 |
| Gd | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 |
| Tb | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Dy | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 |
| Ho | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Er | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tm | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Yb | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Lu | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Hf | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ta | µg/L | **0.2** | **0.2** | **0.1** | 0.1 | 0.1 | 0.3 | < 0.1 | < 0.1 | **0.1** | 0.2 | **0.1** | 0.1 |
| W | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 |
| Re | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Os | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ir | µg/L | **0.5** | **0.2** | **0.2** | < 0.1 | < 0.1 | 0.6 | < 0.1 | < 0.1 | **0.1** | < 0.1 | **0.2** | < 0.1 |
| Pt | µg/L | **0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Au | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tl | µg/L | **0.3** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | 1 | **< 0.1** | < 0.1 |
| Pb | µg/L | **0.2** | **< 0.1** | **0.1** | 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 | **0.2** | 0.9 | **0.1** | 0.2 |
| Bi | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | 2 | **< 0.1** | < 0.1 |
| U | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 |

Anniston sediment cycle 1a toxicity testing, Day-21 pore-water element concentrations.
Samples obtained using in-situ peeper samplers; measurements using ICPMS semiquantitative scan. Values in bold type = CERC samples; non-bold=ERDC samples.

| | | Test species and sediment-peeper ID | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Element | units | **Amph-6** | CD-6 | **Midge-7** | HA-7 | **Midge-8** | HA-8 | **Midge-9** | HA-9 | **Midge-11** | HA-11 | **Amph-11** | CD-11 |
| Na | mg/L | **6** | 10 | **6** | 17 | **6** | 11 | **6** | 11 | **6** | 11 | **6** | 10 |
| Mg | mg/L | **5** | 5 | **6** | 8 | **6** | 7 | **7** | 6 | **5** | 4 | **5** | 5 |
| K | mg/L | **1** | 2 | **2** | 4 | **3** | 3 | **1** | 2 | **2** | 2 | **2** | 3 |
| Ca | mg/L | **25** | 24 | **25** | 31 | **29** | 29 | **24** | 17 | **25** | 18 | **25** | 23 |
| | | | | | | | | | | | | | |
| Al | µg/L | **14** | 40 | **26** | 41 | **31** | 31 | **33** | 23 | **16** | 110 | **28** | 21 |
| Li | µg/L | **0.5** | 0.3 | **0.1** | 0.7 | **1** | 0.6 | **4** | 2 | **0.3** | 0.3 | **0.9** | 0.4 |
| Be | µg/L | **0.2** | < 0.1 | **< 0.1** | 0.2 | **0.5** | 0.2 | **< 0.1** | 0.4 | **< 0.1** | 0.2 | **0.2** | < 0.1 |
| Ti | µg/L | **7** | 10 | **4** | 9 | **5** | 7 | **4** | 3 | **4** | 7 | **4** | 8 |
| V | µg/L | **0.9** | 1 | **0.6** | 1 | **2** | 1 | **1** | 0.6 | **1** | 1 | **2** | 0.9 |
| Cr | µg/L | **11** | 6 | **7** | 25 | **11** | 4 | **8** | 5 | **9** | 6 | **12** | 9 |
| Mn | µg/L | **690** | 750 | **620** | 1,100 | **980** | 1,100 | **4,800** | 4,900 | **1,000** | 800 | **1,100** | 1,100 |
| Fe | µg/L | **8,200** | 12,900 | **10,000** | 11,500 | **14,100** | 11,600 | **16,900** | 13,000 | **12,700** | 11,600 | **12,500** | 17,500 |
| Co | µg/L | **1** | 1 | **1** | 3 | **2** | 3 | **5** | 5 | **3** | 2 | **2** | 3 |
| Ni | µg/L | **2** | 3 | **2** | 3 | **4** | 4 | **2** | 3 | **3** | 2 | **3** | 2 |
| Cu | µg/L | **0.6** | 0.5 | **0.7** | 1 | **1** | 1 | **2** | 2 | **0.5** | 1 | **0.8** | 0.6 |
| Zn | µg/L | **7** | 21 | **7** | 37 | **24** | 13 | **17** | 29 | **12** | 32 | **6** | 9 |
| Ga | µg/L | **0.7** | 0.5 | **0.3** | 0.4 | **0.4** | 0.6 | **0.6** | 1 | **0.4** | 0.4 | **0.2** | 0.5 |
| Ge | µg/L | **< 0.1** | 0.2 | **0.2** | 0.2 | **0.2** | 0.2 | **< 0.1** | 0.2 | **< 0.1** | 0.3 | **< 0.1** | < 0.1 |
| As* | µg/L | **12** | 14 | **17** | 28 | **10** | 13 | **13** | 14 | **11** | 9 | **11** | 18 |
| Rb | µg/L | **2** | 4 | **5** | 7 | **5** | 7 | **3** | 6 | **5** | 5 | **4** | 6 |
| Sr | µg/L | **49** | 48 | **95** | 120 | **97** | 91 | **93** | 51 | **94** | 70 | **90** | 92 |
| Y | µg/L | **< 0.1** | 0.1 | **0.1** | 0.1 | **< 0.1** | 0.1 | **0.2** | 0.1 | **< 0.1** | 0.2 | **< 0.1** | 0.1 |
| Zr | µg/L | **< 0.1** | < 0.1 | **0.3** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **0.1** | 0.4 | **< 0.1** | < 0.1 |
| Nb | µg/L | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Mo | µg/L | **1** | 1 | **2** | 4 | **5** | 3 | **0.5** | 1 | **1** | 1 | **4** | 2 |
| Ru | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pd | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ag | µg/L | **0.3** | 0.2 | **0.4** | 0.3 | **0.6** | 0.3 | **0.4** | 0.2 | **0.3** | 0.3 | **0.6** | 0.2 |
| Cd | µg/L | **< 0.1** | 0.2 | **< 0.1** | < 0.1 | **0.6** | < 0.1 | **< 0.1** | 0.3 | **< 0.1** | < 0.1 | **0.1** | 0.1 |
| In | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Sn | µg/L | **< 0.1** | 1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.9 | **< 0.1** | 1 | **0.6** | 1 |
| Sb | µg/L | **0.1** | 0.1 | **0.2** | 0.1 | **0.1** | 0.1 | **0.1** | 0.1 | **0.1** | 0.1 | **0.1** | 0.1 |
| Te | µg/L | **< 0.1** | < 0.1 | **< 0.1** | 5 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 4 |
| Cs | µg/L | **< 0.1** | 0.1 | **0.1** | 0.1 | **0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 |
| Ba | µg/L | **66** | 140 | **300** | 480 | **560** | 650 | **92** | 82 | **540** | 550 | **500** | 740 |
| La | µg/L | **< 0.1** | 0.1 | **0.1** | 0.1 | **< 0.1** | < 0.1 | **0.2** | 0.1 | **< 0.1** | 0.3 | **< 0.1** | 0.1 |
| Ce | µg/L | **0.2** | 0.4 | **0.4** | 0.5 | **0.3** | 0.3 | **0.6** | 0.3 | **0.2** | 0.9 | **0.3** | 0.2 |
| Pr | µg/L | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **0.1** | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 |
| Nd | µg/L | **< 0.1** | 0.2 | **< 0.1** | 0.2 | **< 0.1** | < 0.1 | **0.1** | < 0.1 | **< 0.1** | 0.2 | **< 0.1** | < 0.1 |
| Sm | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Eu | µg/L | **< 0.1** | < 0.1 | **0.1** | 0.1 | **0.1** | 0.1 | **< 0.1** | < 0.1 | **0.1** | 0.1 | **0.1** | 0.1 |
| Gd | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tb | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Dy | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ho | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Er | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tm | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Yb | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Lu | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Hf | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ta | µg/L | **< 0.1** | 0.1 | **0.1** | 0.1 | **0.3** | 0.1 | **0.1** | < 0.1 | **0.1** | < 0.1 | **0.2** | 0.1 |
| W | µg/L | **< 0.1** | < 0.1 | **0.1** | < 0.1 | **0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **0.1** | < 0.1 |
| Re | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Os | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ir | µg/L | **< 0.1** | < 0.1 | **0.1** | < 0.1 | **0.1** | < 0.1 | **0.1** | < 0.1 | **0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pt | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Au | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tl | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **0.8** | < 0.1 | **0.1** | < 0.1 | **< 0.1** | < 0.1 | **0.7** | < 0.1 |
| Pb | µg/L | **0.1** | 0.5 | **0.1** | 0.9 | **0.7** | 0.6 | **0.4** | 1 | **0.1** | 1 | **0.3** | 0.2 |
| Bi | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **2** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **2** | < 0.1 |
| U | µg/L | **< 0.1** | < 0.1 | **0.1** | 0.1 | **0.1** | 0.1 | **0.1** | < 0.1 | **0.1** | < 0.1 | **0.1** | < 0.1 |

Anniston sediment cycle 1a toxicity testing, Day-21 pore-water element concentrations.
Samples obtained using in-situ peeper samplers; measurements using ICPMS semiquantitative scan. Values in bold type = CERC samples; non-bold=ERDC samples.

| | | Test species and sediment-peeper ID | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Element | units | **Midge-18** | HA-18 | CD-18 | **Midge-19** | **Amph-19** | HA-19 | **Midge-20** | HA-20 | **Midge-25** | HA-25 | **Amph-25** | CD-25 |
| Na | mg/L | **7** | 17 | 16 | **6** | **7** | 12 | **5** | 9 | **5** | 11 | **6** | 11 |
| Mg | mg/L | **8** | 7 | 7 | **6** | **7** | 6 | **5** | 5 | **4** | 5 | **4** | 4 |
| K | mg/L | **3** | 4 | 4 | **3** | **3** | 3 | **1** | 2 | **2** | 3 | **2** | 2 |
| Ca | mg/L | **32** | 29 | 29 | **28** | **30** | 25 | **16** | 12 | **19** | 16 | **17** | 16 |
| | | | | | | | | | | | | | |
| Al | µg/L | **19** | 32 | 18 | **20** | **17** | 24 | **31** | 43 | **42** | 47 | **16** | 63 |
| Li | µg/L | **0.5** | 0.5 | 0.2 | **0.4** | **0.7** | 0.4 | **0.9** | 1 | **0.9** | 0.8 | **0.8** | 0.6 |
| Be | µg/L | **0.2** | < 0.1 | < 0.1 | **0.4** | **< 0.1** | < 0.1 | **0.2** | < 0.1 | **< 0.1** | 0.4 | **< 0.1** | < 0.1 |
| Ti | µg/L | **6** | 5 | 7 | **6** | **4** | 6 | **1** | 5 | **2** | 4 | **4** | 7 |
| V | µg/L | **0.8** | 1 | 1 | **1** | **2** | 1 | **1** | 0.6 | **1** | 2 | **2** | 2 |
| Cr | µg/L | **13** | 5 | 8 | **8** | **10** | 3 | **6** | 4 | **6** | 6 | **8** | 290 |
| Mn | µg/L | **730** | 670 | 500 | **800** | **1,200** | 790 | **600** | 540 | **770** | 830 | **620** | 680 |
| Fe | µg/L | **9,700** | 8,200 | 10,800 | **8,800** | **8,000** | 7,400 | **1,400** | 1,200 | **9,600** | 9,200 | **8,700** | 13,600 |
| Co | µg/L | **3** | 2 | 2 | **2** | **3** | 2 | **2** | 1 | **2** | 2 | **2** | 2 |
| Ni | µg/L | **30** | 4 | 3 | **6** | **6** | 6 | **0.8** | 2 | **2** | 2 | **2** | 5 |
| Cu | µg/L | **1** | 1 | 0.5 | **2** | **0.5** | 0.9 | **0.8** | 4 | **0.6** | 2 | **0.6** | 1 |
| Zn | µg/L | **19** | 9 | 9 | **12** | **5** | 26 | **50** | 29 | **8** | 36 | **7** | 28 |
| Ga | µg/L | **0.5** | 0.5 | 0.5 | **0.4** | **0.3** | 0.5 | **0.1** | 0.4 | **0.4** | 0.5 | **0.4** | 0.7 |
| Ge | µg/L | **< 0.1** | 0.2 | 0.2 | **0.1** | **0.1** | 0.3 | **0.2** | 0.3 | **0.2** | < 0.1 | **0.3** | 0.1 |
| As* | µg/L | **10** | 12 | 8 | **12** | **13** | 11 | **9** | 11 | **14** | 12 | **8** | 14 |
| Rb | µg/L | **6** | 7 | 8 | **6** | **5** | 6 | **4** | 5 | **5** | 5 | **3** | 5 |
| Sr | µg/L | **100** | 88 | 96 | **89** | **91** | 70 | **74** | 54 | **89** | 74 | **80** | 78 |
| Y | µg/L | **< 0.1** | 0.1 | 0.1 | **< 0.1** | **< 0.1** | 0.1 | **0.1** | 0.1 | **0.1** | 0.1 | **< 0.1** | 0.1 |
| Zr | µg/L | **< 0.1** | 0.1 | 0.2 | **< 0.1** | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **0.1** | < 0.1 |
| Nb | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Mo | µg/L | **3** | 3 | 3 | **4** | **4** | 4 | **1** | 3 | **0.8** | 2 | **1** | 3 |
| Ru | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pd | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ag | µg/L | **0.4** | 0.3 | 0.4 | **0.3** | **0.3** | 0.3 | **0.2** | 0.1 | **0.4** | 0.2 | **0.3** | 0.1 |
| Cd | µg/L | **0.1** | 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **0.1** | < 0.1 | **< 0.1** | < 0.1 | **0.1** | 0.1 |
| In | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Sn | µg/L | **0.5** | < 0.1 | 2 | **< 0.1** | **< 0.1** | 1 | **0.8** | 0.5 | **< 0.1** | 1 | **0.6** | < 0.1 |
| Sb | µg/L | **0.1** | 0.1 | 0.1 | **0.2** | **0.3** | 0.1 | **< 0.1** | 0.1 | **0.1** | < 0.1 | **0.1** | 0.2 |
| Te | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | 0.9 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Cs | µg/L | **0.1** | 0.1 | 0.1 | **0.1** | **0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 |
| Ba | µg/L | **480** | 480 | 620 | **310** | **280** | 280 | **100** | 100 | **250** | 290 | **210** | 240 |
| La | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | **0.1** | 0.2 | **< 0.1** | 0.2 |
| Ce | µg/L | **0.2** | 0.3 | 0.2 | **0.2** | **0.2** | 0.1 | **0.2** | 0.5 | **0.3** | 0.5 | **0.2** | 0.6 |
| Pr | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 |
| Nd | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | **0.1** | 0.1 | **< 0.1** | < 0.1 |
| Sm | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Eu | µg/L | **0.1** | 0.1 | 0.1 | **< 0.1** | **0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Gd | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tb | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Dy | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ho | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Er | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tm | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Yb | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Lu | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Hf | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ta | µg/L | **0.1** | 0.2 | 0.1 | **< 0.1** | **0.1** | < 0.1 | **0.1** | < 0.1 | **0.1** | 0.1 | **0.1** | 0.3 |
| W | µg/L | **0.1** | 0.1 | < 0.1 | **0.1** | **0.2** | 0.2 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Re | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Os | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ir | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.4 |
| Pt | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Au | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tl | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pb | µg/L | **0.2** | 0.3 | 0 | **0.7** | **0.3** | 0.4 | **0.1** | 0.5 | **0.3** | 0.4 | **0.1** | 0 |
| Bi | µg/L | **< 0.1** | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| U | µg/L | **0.1** | < 0.1 | < 0.1 | **0.1** | **0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |

Anniston sediment cycle 1a toxicity testing, Day-21 pore-water element concentrations.
Samples obtained using in-situ peeper samplers; measurements using ICPMS semiquantitative scan. Values in bold type = CERC samples; non-bold=ERDC samples.

| | | Test species and sediment-peeper ID | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Element | units | **Midge-30** | HA-30 | **Amph-30** | CD-30 | **Midge-33** | HA-33 | **Amph-33** | CD-33 |
| Na | mg/L | **6** | 12 | **6** | 16 | **7** | 16 | **7** | 17 |
| Mg | mg/L | **6** | 5 | **5** | 6 | **5** | 4 | **5** | 5 |
| K | mg/L | **2** | 2 | **2** | 3 | **2** | 2 | **2** | 2 |
| Ca | mg/L | **34** | 23 | **28** | 29 | **20** | 15 | **20** | 15 |
| | | | | | | | | | |
| Al | µg/L | **14** | 77 | **13** | 22 | **10** | 13 | **14** | 18 |
| Li | µg/L | **0.3** | 1 | **0.9** | 0.9 | **6** | 4 | **5** | 4 |
| Be | µg/L | **< 0.1** | 0.2 | **< 0.1** | < 0.1 | **< 0.1** | 0.2 | **0.2** | < 0.1 |
| Ti | µg/L | **5** | 5 | **7** | 8 | **7** | 6 | **6** | 7 |
| V | µg/L | **0.8** | 1 | **0.9** | 0.8 | **1** | 1 | **0.8** | 2 |
| Cr | µg/L | **< 0.1** | 9 | **6** | 2 | **< 0.1** | 7 | **8** | 5 |
| Mn | µg/L | **2,300** | 2,000 | **2,000** | 2,100 | **8,500** | 6,900 | **8,000** | 7,600 |
| Fe | µg/L | **11,800** | 2,100 | **9,700** | 14,000 | **13,200** | 15,200 | **12,000** | 14,800 |
| Co | µg/L | **3** | 3 | **2** | 3 | **0.9** | 0.6 | **1** | 0.9 |
| Ni | µg/L | **4** | 6 | **3** | 2 | **4** | 3 | **5** | 3 |
| Cu | µg/L | **1** | 2 | **0.7** | 0.8 | **1** | 0.7 | **0.8** | 1 |
| Zn | µg/L | **5** | 58 | **6** | 18 | **7** | 16 | **49** | 13 |
| Ga | µg/L | **0.7** | 0.4 | **0.5** | 0.6 | **1** | 0.9 | **1** | 2 |
| Ge | µg/L | **0.1** | < 0.1 | **0.2** | 0.2 | **0.2** | 0.2 | **0.1** | 0.3 |
| As* | µg/L | **17** | 15 | **10** | 24 | **19** | 29 | **13** | 33 |
| Rb | µg/L | **5** | 4 | **4** | 6 | **3** | 3 | **3** | 3 |
| Sr | µg/L | **120** | 80 | **97** | 110 | **77** | 54 | **77** | 62 |
| Y | µg/L | **0.1** | 0.2 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **0.1** | 0.1 |
| Zr | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **0.1** | 0.5 |
| Nb | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Mo | µg/L | **2** | 5 | **1** | 3 | **17** | 23 | **18** | 26 |
| Ru | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pd | µg/L | **< 0.1** | < 0.1 | **0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ag | µg/L | **0.4** | 0.4 | **0.3** | 0.4 | **0.3** | 0.3 | **0.2** | 0.2 |
| Cd | µg/L | **0.1** | < 0.1 | **< 0.1** | 0.2 | **0.1** | 0.2 | **0.3** | < 0.1 |
| In | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Sn | µg/L | **1** | < 0.1 | **< 0.1** | 2 | **< 0.1** | < 0.1 | **< 0.1** | 2 |
| Sb | µg/L | **0.1** | 0.2 | **0.1** | 0.1 | **0.1** | 0.1 | **0.1** | < 0.1 |
| Te | µg/L | **< 0.1** | < 0.1 | **< 0.1** | 0.7 | **< 0.1** | 0.4 | **< 0.1** | 0.5 |
| Cs | µg/L | **0.1** | 0.1 | **< 0.1** | 0.1 | **0.1** | 0.1 | **0.1** | 0.1 |
| Ba | µg/L | **710** | 700 | **590** | 740 | **66** | 59 | **65** | 67 |
| La | µg/L | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 |
| Ce | µg/L | **0.2** | 0.6 | **0.2** | 0.2 | **0.2** | 0.2 | **0.2** | 0.2 |
| Pr | µg/L | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Nd | µg/L | **< 0.1** | 0.3 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Sm | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Eu | µg/L | **< 0.1** | 0.1 | **0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Gd | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tb | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Dy | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ho | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Er | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tm | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Yb | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Lu | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Hf | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ta | µg/L | **0.1** | 0.2 | **0.1** | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 |
| W | µg/L | **< 0.1** | < 0.1 | **0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 |
| Re | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Os | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ir | µg/L | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pt | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Au | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tl | µg/L | **< 0.1** | 0.7 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pb | µg/L | **0.1** | 2 | **0.2** | 0.7 | **< 0.1** | 0.2 | **< 0.1** | 0.3 |
| Bi | µg/L | **< 0.1** | 2 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| U | µg/L | **0.1** | 0.1 | **0.1** | < 0.1 | **< 0.1** | < 0.1 | **0.1** | < 0.1 |

* Semi-quantative measurements for As tend to be biased high (depending on sample constituents)

Anniston sediment cycle 1b toxicity testing, Day-21 pore-water element concentrations.
Samples obtained using in-situ peeper samplers; measurements using ICPMS semiquantitative scan. Values in bold

| | | peeper blanks | | | | | | Testing Laboratory and sediment-peeper ID | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CERC | | | ERDC | | | | | | |
| Element | units | **BLK-1** | **BLK-2** | **BLK-3** | BLK-1 | BLK-2 | BLK-3 | **CERC-2** | ERDC-2 | **CERC-4** | ERDC-4 |
| Na | mg/L | **6** | **6** | **6** | 16 | 16 | 16 | **7** | 20 | **7** | 18 |
| Mg | mg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.4 | 0.2 | 0.2 | **6** | 6 | **8** | 9 |
| K | mg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.2 | 0.1 | 0.1 | **2** | 2 | **1** | 3 |
| Ca | mg/L | **0.1** | **< 0.1** | **< 0.1** | 0.4 | 0.2 | 0.1 | **20** | 13 | **23** | 15 |
| | | | | | | | | | | | |
| Li | µg/L | **< 0.1** | **0.1** | **0.1** | 0.5 | 0.3 | 0.3 | **1** | 1 | **1** | 3 |
| Be | µg/L | **< 0.1** | **< 0.1** | **0.1** | 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.1 | **0.1** | < 0.1 |
| Al | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | 120 | 27 | 29 | **< 0.1** | 120 | **< 0.1** | 89 |
| Ti | µg/L | **0.9** | **0.5** | **0.5** | 1 | 0.7 | 0.7 | **5** | 7 | **2** | 5 |
| V | µg/L | **0.1** | **0.2** | **0.2** | < 0.1 | < 0.1 | < 0.1 | **0.2** | 0.4 | **0.3** | 0.2 |
| Cr | µg/L | **0.4** | **0.4** | **0.5** | 0.7 | 0.6 | 0.6 | **0.3** | 0.6 | **0.2** | 0.7 |
| Mn | µg/L | **0.1** | **0.1** | **0.1** | 3 | 2 | 2 | **1400** | 1000 | **7000** | 4200 |
| Fe | µg/L | **< 1** | **< 1** | **< 1** | 170 | 180 | 170 | **6500** | 2400 | **11500** | 3200 |
| Co | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.2 | 0.1 | 0.1 | **2** | 2 | **5** | 3 |
| Ni | µg/L | **0.2** | **0.2** | **0.2** | 4 | 2 | 3 | **1** | 4 | **1** | 3 |
| Cu | µg/L | **0.2** | **0.2** | **0.1** | 12 | 8 | 9 | **0.7** | 13 | **0.3** | 11 |
| Zn | µg/L | **15** | **16** | **15** | 61 | 47 | 46 | **2** | 39 | **1** | 28 |
| Ga | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.1 | 0.1 | 0.1 | **0.1** | 0.3 | **0.4** | 0.4 |
| Ge | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| As* | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.1 | 0.1 | 0.1 | **13** | 11 | **21** | 10 |
| Rb | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.7 | 0.4 | 0.4 | **3** | 4 | **4** | 6 |
| Sr | µg/L | **< 1** | **< 1** | **< 1** | 8 | 3 | 2 | **120** | 86 | **62** | 54 |
| Y | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.2 | **0.2** | 0.2 |
| Zr | µg/L | **0.1** | **0.1** | **0.1** | 0.2 | 0.3 | 0.3 | **0.1** | 0.2 | **0.1** | 0.2 |
| Nb | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Mo | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.1 | 0.1 | < 0.1 | **2** | 2 | **1** | 1 |
| Ru | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pd | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ag | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.1 | 0.1 | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 |
| Cd | µg/L | **0.1** | **< 0.1** | **< 0.1** | 0.1 | 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 |
| In | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Sn | µg/L | **0.4** | **0.4** | **0.3** | 5 | 4 | 5 | **0.2** | 12 | **0.1** | 9 |
| Sb | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.1 | < 0.1 | 0.1 | **0.2** | 0.1 | **< 0.1** | < 0.1 |
| Te | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Cs | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 |
| Ba | µg/L | **0.3** | **0.1** | **0.1** | 2 | 2 | 2 | **240** | 170 | **92** | 55 |
| La | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.1 | **0.2** | 0.2 |
| Ce | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.3 | 0.1 | 0.1 | **0.1** | 0.4 | **0.5** | 0.4 |
| Pr | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **0.1** | 0.1 |
| Nd | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.2 | **0.2** | 0.2 |
| Sm | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Eu | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Gd | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 |
| Tb | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Dy | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ho | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Er | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tm | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Yb | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Lu | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Hf | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ta | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| W | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **0.1** | 0.1 | **< 0.1** | < 0.1 |
| Re | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Os | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ir | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pt | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Au | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tl | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pb | µg/L | **0.1** | **0.1** | **0.1** | 13 | 6 | 6 | **0.2** | 8 | **0.1** | 7 |
| Bi | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 |
| U | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 |

Anniston sediment cycle 1b toxicity testing, Day-21 pore-water element concentrations.
Samples obtained using in-situ peeper samplers; measurements using ICPMS semiquantitative scan. Values in bold

| | | Testing Laboratory and sediment-peeper ID | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Element | units | **CERC-10** | ERDC-10 | **CERC-13** | ERDC-13 | **CERC-14** | ERDC-14 | **CERC-15** | ERDC-15 | **CERC-16** | ERDC-16 | **CERC-17** |
| Na | mg/L | **11** | 20 | **7** | 18 | **7** | 16 | **6** | 17 | **8** | 19 | **7** |
| Mg | mg/L | **12** | 5 | **6** | 5 | **5** | 5 | **4** | 5 | **4** | 3 | **5** |
| K | mg/L | **2** | 2 | **1** | 2 | **2** | 3 | **3** | 5 | **0.7** | 1 | **2** |
| Ca | mg/L | **38** | 13 | **16** | 11 | **20** | 15 | **10** | 9 | **17** | 11 | **14** |
| | | | | | | | | | | | | |
| Li | µg/L | **6** | 1 | **0.9** | 1 | **0.7** | 0.9 | **0.6** | 3 | **0.3** | 0.7 | **0.4** |
| Be | µg/L | **0.1** | < 0.1 | **0.1** | < 0.1 | **0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **0.1** |
| Al | µg/L | **< 0.1** | 75 | **< 0.1** | 76 | **< 0.1** | 160 | **< 0.1** | 130 | **< 0.1** | 220 | **< 0.1** |
| Ti | µg/L | **3** | 6 | **5** | 4 | **4** | 7 | **2** | 5 | **0.5** | 4 | **5** |
| V | µg/L | **0.2** | 0.2 | **0.3** | 0.7 | **0.4** | 0.7 | **0.5** | 0.9 | **0.2** | 0.5 | **0.4** |
| Cr | µg/L | **0.2** | 0.5 | **0.4** | 0.7 | **< 0.1** | 1 | **0.2** | 0.9 | **< 0.1** | 1 | **0.1** |
| Mn | µg/L | **6100** | 4600 | **1100** | 1100 | **620** | 550 | **1200** | 2400 | **350** | 25 | **1100** |
| Fe | µg/L | **6900** | 7700 | **8000** | 2000 | **3700** | 2600 | **9500** | 3000 | **< 1** | 480 | **11500** |
| Co | µg/L | **3** | 3 | **3** | 3 | **3** | 2 | **5** | 5 | **1** | 0.3 | **2** |
| Ni | µg/L | **2** | 3 | **1** | 3 | **1** | 4 | **1** | 4 | **0.5** | 3 | **1** |
| Cu | µg/L | **0.4** | 10 | **0.4** | 11 | **0.3** | 11 | **0.2** | 12 | **0.3** | 13 | **0.3** |
| Zn | µg/L | **2** | 27 | **1** | 29 | **20** | 35 | **2** | 33 | **0.4** | 32 | **6** |
| Ga | µg/L | **0.4** | 0.4 | **0.1** | 0.3 | **0.1** | 0.3 | **0.2** | 0.3 | **< 0.1** | 0.2 | **0.1** |
| Ge | µg/L | **0.1** | < 0.1 | **0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| As* | µg/L | **11** | 12 | **16** | 9 | **14** | 12 | **11** | 5 | **0.1** | 0.3 | **19** |
| Rb | µg/L | **3** | 6 | **3** | 4 | **3** | 5 | **6** | 9 | **2** | 2 | **4** |
| Sr | µg/L | **160** | 46 | **56** | 39 | **54** | 42 | **48** | 43 | **47** | 29 | **45** |
| Y | µg/L | **0.2** | 0.2 | **0.1** | 0.1 | **0.1** | 0.3 | **0.4** | 0.5 | **0.2** | 0.4 | **0.2** |
| Zr | µg/L | **0.1** | 0.2 | **0.1** | 0.2 | **0.1** | 0.3 | **0.1** | 0.3 | **0.1** | 0.2 | **0.1** |
| Nb | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Mo | µg/L | **0.6** | 0.4 | **1** | 2 | **2** | 2 | **0.6** | 0.7 | **0.1** | 0.1 | **2** |
| Ru | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Pd | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Ag | µg/L | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 1 | **< 0.1** | 0.8 | **< 0.1** | 0.1 | **< 0.1** |
| Cd | µg/L | **0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **0.1** | < 0.1 | **< 0.1** |
| In | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Sn | µg/L | **0.3** | 8 | **0.3** | 9 | **0.2** | 9 | **0.1** | 11 | **0.1** | 13 | **0.2** |
| Sb | µg/L | **< 0.1** | < 0.1 | **0.1** | 0.1 | **0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Te | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Cs | µg/L | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** |
| Ba | µg/L | **71** | 52 | **200** | 150 | **190** | 180 | **41** | 38 | **29** | 24 | **52** |
| La | µg/L | **0.1** | 0.2 | **< 0.1** | 0.1 | **< 0.1** | 0.3 | **0.3** | 0.4 | **0.1** | 0.3 | **0.1** |
| Ce | µg/L | **0.2** | 0.5 | **0.1** | 0.3 | **0.1** | 0.7 | **0.9** | 1 | **0.1** | 0.6 | **0.2** |
| Pr | µg/L | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | **0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** |
| Nd | µg/L | **0.1** | 0.2 | **< 0.1** | 0.1 | **< 0.1** | 0.4 | **0.4** | 0.6 | **0.1** | 0.4 | **0.1** |
| Sm | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Eu | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Gd | µg/L | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | **0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** |
| Tb | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Dy | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | **0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** |
| Ho | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Er | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Tm | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Yb | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Lu | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Hf | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Ta | µg/L | **0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| W | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Re | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Os | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Ir | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Pt | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Au | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Tl | µg/L | **< 0.1** | < 0.1 | **0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** |
| Pb | µg/L | **0.1** | 7 | **0.2** | 8 | **0.3** | 8 | **0.2** | 7 | **< 0.1** | 7 | **0.4** |
| Bi | µg/L | **< 0.1** | 0.1 | **0.3** | 0.4 | **0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** |
| U | µg/L | **0.5** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** |

Anniston sediment cycle 1b toxicity testing, Day-21 pore-water element concentrations.
Samples obtained using in-situ peeper samplers; measurements using ICPMS semiquantitative scan. Values in bold

| | | Testing Laboratory and sediment-peeper ID | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Element | units | ERDC-17 | **CERC-20** | ERDC-20 | **CERC-22** | ERDC-22 | **CERC-23** | ERDC-23 | **CERC-24** | ERDC-24 | **CERC-26** | ERDC-26 |
| Na | mg/L | 16 | **7** | ns | **8** | 20 | **8** | 22 | **10** | 21 | **9** | 20 |
| Mg | mg/L | 3 | **8** | ns | **8** | 7 | **6** | 9 | **8** | 6 | **7** | 7 |
| K | mg/L | 2 | **2** | ns | **1** | 3 | **2** | 3 | **2** | 3 | **2** | 3 |
| Ca | mg/L | 8 | **20** | ns | **22** | 14 | **16** | 18 | **27** | 13 | **22** | 12 |
| | | | | | | | | | | | | |
| Li | µg/L | 0.8 | **2** | ns | **1** | 2 | **0.8** | 5 | **4** | 4 | **2** | 3 |
| Be | µg/L | 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Al | µg/L | 180 | **< 0.1** | ns | **< 0.1** | 53 | **< 0.1** | 250 | **< 0.1** | 64 | **< 0.1** | 100 |
| Ti | µg/L | 7 | **3** | ns | **2** | 4 | **2** | 12 | **2** | 3 | **2** | 5 |
| V | µg/L | 0.9 | **0.3** | ns | **0.2** | 0.1 | **0.2** | 1 | **< 0.1** | 0.1 | **0.1** | 0.2 |
| Cr | µg/L | 1 | **2** | ns | **< 0.1** | 0.4 | **0.2** | 0.9 | **0.4** | 1 | **0.4** | 2 |
| Mn | µg/L | 1000 | **700** | ns | **4500** | 3500 | **910** | 760 | **6100** | 3500 | **3100** | 2600 |
| Fe | µg/L | 6000 | **2400** | ns | **7300** | 5000 | **4400** | 6100 | **2100** | 410 | **7000** | 2300 |
| Co | µg/L | 2 | **3** | ns | **3** | 3 | **3** | 3 | **4** | 3 | **3** | 2 |
| Ni | µg/L | 4 | **2** | ns | **1** | 3 | **1** | 3 | **2** | 4 | **1** | 4 |
| Cu | µg/L | 12 | **0.4** | ns | **0.2** | 10 | **0.3** | 13 | **0.3** | 11 | **0.2** | 12 |
| Zn | µg/L | 39 | **2** | ns | **0.3** | 25 | **8** | 32 | **< 0.1** | 32 | **2** | 31 |
| Ga | µg/L | 0.3 | **0.1** | ns | **0.2** | 0.3 | **0.2** | 0.5 | **0.3** | 0.4 | **0.2** | 0.3 |
| Ge | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| As* | µg/L | 14 | **16** | ns | **15** | 11 | **6** | 9 | **6** | 2 | **14** | 8 |
| Rb | µg/L | 6 | **4** | ns | **4** | 6 | **3** | 6 | **3** | 5 | **3** | 5 |
| Sr | µg/L | 24 | **86** | ns | **66** | 42 | **89** | 95 | **100** | 44 | **75** | 44 |
| Y | µg/L | 0.5 | **< 0.1** | ns | **0.1** | 0.1 | **0.1** | 0.7 | **< 0.1** | 0.1 | **0.1** | 0.1 |
| Zr | µg/L | 0.2 | **0.1** | ns | **0.1** | 0.2 | **0.1** | 0.3 | **0.1** | 0.3 | **0.1** | 0.2 |
| Nb | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Mo | µg/L | 2 | **3** | ns | **1** | 1 | **2** | 1 | **1** | 2 | **0.7** | 0.8 |
| Ru | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pd | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ag | µg/L | 0.1 | **< 0.1** | ns | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 |
| Cd | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| In | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Sn | µg/L | 8 | **0.1** | ns | **0.2** | 7 | **0.1** | 8 | **2** | 6 | **0.1** | 11 |
| Sb | µg/L | 0.1 | **0.1** | ns | **< 0.1** | < 0.1 | **0.1** | 0.2 | **0.1** | 0.3 | **< 0.1** | < 0.1 |
| Te | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Cs | µg/L | 0.1 | **< 0.1** | ns | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 |
| Ba | µg/L | 37 | **71** | ns | **55** | 46 | **100** | 100 | **73** | 57 | **54** | 39 |
| La | µg/L | 0.4 | **< 0.1** | ns | **0.1** | 0.1 | **< 0.1** | 0.6 | **0.1** | 0.1 | **0.1** | 0.1 |
| Ce | µg/L | 1 | **< 0.1** | ns | **0.2** | 0.3 | **< 0.1** | 2 | **0.1** | 0.2 | **0.3** | 0.3 |
| Pr | µg/L | 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | 0.2 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Nd | µg/L | 0.6 | **< 0.1** | ns | **0.1** | 0.1 | **< 0.1** | 0.8 | **< 0.1** | 0.1 | **0.1** | 0.2 |
| Sm | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Eu | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Gd | µg/L | 0.2 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | 0.2 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 |
| Tb | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Dy | µg/L | 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ho | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Er | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tm | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Yb | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Lu | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Hf | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ta | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| W | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **0.2** | 0.1 | **0.5** | 0.2 | **< 0.1** | < 0.1 |
| Re | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Os | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ir | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pt | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Au | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tl | µg/L | < 0.1 | **< 0.1** | ns | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pb | µg/L | 8 | **0.1** | ns | **0.1** | 6 | **0.2** | 8 | **0.1** | 7 | **0.1** | 8 |
| Bi | µg/L | 0.1 | **< 0.1** | ns | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 |
| U | µg/L | 0.1 | **< 0.1** | ns | **0.1** | 0.1 | **< 0.1** | 0.1 | **0.1** | 0.1 | **0.1** | 0.1 |

Anniston sediment cycle 1b toxicity testing, Day-21 pore-water element concentrations.
Samples obtained using in-situ peeper samplers; measurements using ICPMS semiquantitative scan. Values in bold

| | | Testing Laboratory and sediment-peeper ID | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Element | units | **CERC-27** | ERDC-27 | **CERC-28** | ERDC-28 | **CERC-29** | ERDC-29 | **CERC-33** | ERDC-33 |
| Na | mg/L | **7** | 16 | **8** | 23 | **8** | 20 | **9** | 22 |
| Mg | mg/L | **5** | 4 | **6** | 8 | **7** | 6 | **7** | 6 |
| K | mg/L | **2** | 2 | **3** | 4 | **1** | 2 | **2** | 3 |
| Ca | mg/L | **12** | 6 | **22** | 14 | **19** | 12 | **21** | 14 |
| | | | | | | | | | |
| Li | µg/L | **1** | 0.8 | **3** | 4 | **2** | 2 | **5** | 6 |
| Be | µg/L | **< 0.1** | < 0.1 | **0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Al | µg/L | **< 0.1** | 130 | **< 0.1** | 76 | **< 0.1** | 60 | **< 0.1** | 21 |
| Ti | µg/L | **2** | 5 | **7** | 8 | **2** | 4 | **5** | 5 |
| V | µg/L | **0.6** | 1 | **0.2** | 0.1 | **0.2** | 0.2 | **0.4** | 0.3 |
| Cr | µg/L | **0.4** | 0.9 | **0.2** | 0.7 | **< 0.1** | 0.4 | **< 0.1** | 0.4 |
| Mn | µg/L | **2000** | 1500 | **4400** | 3100 | **1400** | 1100 | **10100** | 7900 |
| Fe | µg/L | **11200** | 7800 | **11200** | 5000 | **4500** | 3000 | **10300** | 2800 |
| Co | µg/L | **5** | 2 | **5** | 4 | **2** | 2 | **2** | 2 |
| Ni | µg/L | **1** | 3 | **1** | 3 | **1** | 3 | **3** | 7 |
| Cu | µg/L | **0.2** | 11 | **0.2** | 10 | **0.1** | 10 | **0.4** | 8 |
| Zn | µg/L | **1** | 38 | **< 0.1** | 25 | **8** | 42 | **4** | 24 |
| Ga | µg/L | **0.2** | 0.3 | **0.2** | 0.3 | **0.1** | 0.2 | **0.4** | 0.5 |
| Ge | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **0.1** | 0.1 |
| As* | µg/L | **16** | 15 | **8** | 10 | **10** | 8 | **20** | 9 |
| Rb | µg/L | **5** | 6 | **4** | 5 | **3** | 4 | **2** | 3 |
| Sr | µg/L | **49** | 26 | **75** | 51 | **56** | 30 | **83** | 56 |
| Y | µg/L | **0.2** | 0.6 | **0.1** | 0.2 | **0.1** | 0.2 | **0.1** | 0.1 |
| Zr | µg/L | **0.1** | 0.2 | **0.1** | 0.1 | **0.1** | 0.2 | **0.1** | 0.2 |
| Nb | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Mo | µg/L | **2** | 2 | **0.5** | 0.9 | **0.9** | 1 | **30** | 28 |
| Ru | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pd | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ag | µg/L | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 |
| Cd | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **0.1** | < 0.1 | **0.3** | 0.1 |
| In | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Sn | µg/L | **0.2** | 10 | **0.2** | 7 | **0.2** | 6 | **0.2** | 4 |
| Sb | µg/L | **0.1** | < 0.1 | **0.1** | 0.2 | **< 0.1** | < 0.1 | **0.1** | 0.1 |
| Te | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Cs | µg/L | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 |
| Ba | µg/L | **93** | 71 | **76** | 51 | **34** | 31 | **57** | 46 |
| La | µg/L | **0.1** | 0.4 | **0.1** | 0.2 | **< 0.1** | 0.1 | **< 0.1** | 0.1 |
| Ce | µg/L | **0.3** | 1 | **0.2** | 0.4 | **0.1** | 0.3 | **0.1** | 0.1 |
| Pr | µg/L | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Nd | µg/L | **0.2** | 0.6 | **0.1** | 0.2 | **0.1** | 0.2 | **< 0.1** | 0.1 |
| Sm | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Eu | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Gd | µg/L | **0.1** | 0.2 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 |
| Tb | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Dy | µg/L | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ho | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Er | µg/L | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tm | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Yb | µg/L | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Lu | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Hf | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ta | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **0.1** | < 0.1 | **< 0.1** | < 0.1 |
| W | µg/L | **< 0.1** | < 0.1 | **0.2** | 0.4 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Re | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Os | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Ir | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pt | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Au | µg/L | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Tl | µg/L | **0.1** | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 |
| Pb | µg/L | **0.1** | 8 | **0.1** | 7 | **< 0.1** | 7 | **0.1** | 6 |
| Bi | µg/L | **0.3** | 0.1 | **< 0.1** | 0.4 | **< 0.1** | 0.1 | **< 0.1** | 0.1 |
| U | µg/L | **< 0.1** | 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |

* Semi-quantative measurements for As tend to be biased high (depending on sample constituents)

Comparison of element concentrations in Day-21 test pore water across all six tests for control sediment 33.

Samples obtained using in-situ peeper samplers; measurements using ICPMS semiquantitative scan. Values in bold type = CERC samples; non-bold=ERDC samples.

| | | **Peeper Blanks Cycle 1a** | | | | | | | | **Peeper blanks Cycle 1b** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CERC | | | ERDC | | | | | CERC | | |
| Element | units | **Blk-1** | **Blk-2** | **Blk-3** | Blk-1 | Blk-2 | Blk-3 | Blk-4 | Blk-5 | **BLK-1** | **BLK-2** | **BLK-3** |
| Na | mg/L | **5** | **5** | **5** | 6 | 6 | 6 | 6 | 6 | **6** | **6** | **6** |
| Mg | mg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| K | mg/L | **0.6** | **< 0.1** | **0.1** | 0.1 | < 0.1 | 0.2 | 0.1 | 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Ca | mg/L | **0.1** | **< 0.1** | **0.1** | 0.2 | 0.1 | < 0.1 | 0.1 | 0.2 | **0.1** | **< 0.1** | **< 0.1** |
| | | | | | | | | | | | | |
| Al | µg/L | **15** | **9** | **17** | 15 | 13 | 20 | 13 | 12 | **< 0.1** | **0.1** | **0.1** |
| Li | µg/L | **0.3** | **< 0.1** | **0.3** | 0.2 | 0.2 | < 0.1 | 0.1 | 0.3 | **< 0.1** | **< 0.1** | **0.1** |
| Be | µg/L | **0.2** | **< 0.1** | **0.2** | < 0.1 | 0.2 | < 0.1 | < 0.1 | 0.2 | **< 0.1** | **< 0.1** | **< 0.1** |
| Ti | µg/L | **2** | **0.7** | **3** | 0.3 | 1 | 3 | < 0.1 | 1 | **0.9** | **0.5** | **0.5** |
| V | µg/L | **0.5** | **0.5** | **1** | 0.9 | 0.9 | 0.7 | 0.5 | 0.5 | **0.1** | **0.2** | **0.2** |
| Cr | µg/L | **10** | **4** | **10** | 10 | 7 | < 0.1 | 5 | 7 | **0.4** | **0.4** | **0.5** |
| Mn | µg/L | **29** | **15** | **14** | 9 | 8 | 10 | 9 | 7 | **0.1** | **0.1** | **0.1** |
| Fe | µg/L | **16** | **< 1** | **120** | < 1 | < 1 | < 1 | < 1 | < 1 | **< 1** | **< 1** | **< 1** |
| Co | µg/L | **0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Ni | µg/L | **1** | **1** | **0.9** | 0.7 | 0.9 | 1 | 1 | 0.7 | **0.2** | **0.2** | **0.2** |
| Cu | µg/L | **1** | **0.8** | **1** | 1 | 1 | 1 | 2 | 6 | **0.2** | **0.2** | **0.1** |
| Zn | µg/L | **16** | **15** | **15** | 24 | 23 | 16 | 22 | 21 | **15** | **16** | **15** |
| Ga | µg/L | **< 0.1** | **0.1** | **< 0.1** | 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Ge | µg/L | **0.1** | **< 0.1** | **< 0.1** | 0.2 | < 0.1 | < 0.1 | 0.2 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| As* | µg/L | **0.5** | **0.1** | **0.4** | < 0.1 | 0.1 | 0.9 | < 0.1 | 0.7 | **< 0.1** | **< 0.1** | **< 0.1** |
| Rb | µg/L | **0.4** | **0.1** | **0.1** | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Sr | µg/L | **< 1** | **< 1** | **< 1** | < 1 | < 1 | < 1 | < 1 | < 1 | **< 1** | **< 1** | **< 1** |
| Y | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Zr | µg/L | **< 0.1** | **< 0.1** | **0.3** | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | **0.1** | **0.1** | **0.1** |
| Nb | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Mo | µg/L | **0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Ru | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Pd | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Ag | µg/L | **0.7** | **0.2** | **0.4** | 0.3 | 0.3 | 0.6 | 0.2 | 0.2 | **< 0.1** | **< 0.1** | **< 0.1** |
| Cd | µg/L | **0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | **0.1** | **< 0.1** | **< 0.1** |
| In | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Sn | µg/L | **3** | **2** | **< 0.1** | 0.8 | 1 | 3 | 1 | 1 | **0.4** | **0.4** | **0.3** |
| Sb | µg/L | **0.4** | **0.2** | **0.1** | < 0.1 | 0.1 | 0.4 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Te | µg/L | **0.4** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | 0.4 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Cs | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Ba | µg/L | **< 1** | **< 1** | **< 1** | < 1 | < 1 | < 1 | < 1 | < 1 | **0.3** | **0.1** | **0.1** |
| La | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Ce | µg/L | **0.4** | **0.3** | **0.3** | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Pr | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Nd | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Sm | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Eu | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Gd | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Tb | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Dy | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Ho | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Er | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Tm | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Yb | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Lu | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Hf | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Ta | µg/L | **0.2** | **0.2** | **0.1** | 0.1 | 0.1 | 0.3 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| W | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Re | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Os | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Ir | µg/L | **0.5** | **0.2** | **0.2** | < 0.1 | < 0.1 | 0.6 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Pt | µg/L | **0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Au | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Tl | µg/L | **0.3** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| Pb | µg/L | **0.2** | **< 0.1** | **0.1** | 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 | **0.1** | **0.1** | **0.1** |
| Bi | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |
| U | µg/L | **< 0.1** | **< 0.1** | **< 0.1** | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | **< 0.1** | **< 0.1** |

Comparison of element concentrations in Day-21 test pore water across all six tests for control sediment 33.

Samples obtained using in-situ peeper samplers; measurements using ICPMS semiquantitative scan. Values in bold type = CERC samples; non-bold=ERDC samples.

| | | Peeper blanks Cycle 1b | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ERDC | | | Cycle 1a | | | | Cycle 1b | | |
| Element | units | BLK-1 | BLK-2 | BLK-3 | **Midge-33** | HA-33 | **Amph-33** | CD-33 | **CERC-33** | ERDC-33 | ERDC-33 BLK-CORR |
| Na | mg/L | 16 | 16 | 16 | **7** | 16 | **7** | 17 | **9** | 22 | |
| Mg | mg/L | 0.4 | 0.2 | 0.2 | **5** | 4 | **5** | 5 | **7** | 6 | |
| K | mg/L | 0.2 | 0.1 | 0.1 | **2** | 2 | **2** | 2 | **2** | 3 | |
| Ca | mg/L | 0.4 | 0.2 | 0.1 | **20** | 15 | **20** | 15 | **21** | 14 | |
| Al | µg/L | 0.5 | 0.3 | 0.3 | **10** | 13 | **14** | 18 | **5** | 6 | |
| Li | µg/L | 0.1 | < 0.1 | < 0.1 | **6** | 4 | **5** | 4 | **< 0.1** | < 0.1 | |
| Be | µg/L | 120 | 27 | 29 | **< 0.1** | 0.2 | **0.2** | < 0.1 | **< 0.1** | 21 | -38 |
| Ti | µg/L | 1 | 0.7 | 0.7 | **7** | 6 | **6** | 7 | **5** | 5 | |
| V | µg/L | < 0.1 | < 0.1 | < 0.1 | **1** | 1 | **0.8** | 2 | **0.4** | 0.3 | |
| Cr | µg/L | 0.7 | 0.6 | 0.6 | **< 0.1** | 7 | **8** | 5 | **< 0.1** | 0.4 | |
| Mn | µg/L | 3 | 2 | 2 | **8,500** | 6,900 | **8,000** | 7,600 | **10100** | 7900 | |
| Fe | µg/L | 170 | 180 | 170 | **13,200** | 15,200 | **12,000** | 14,800 | **10300** | 2800 | |
| Co | µg/L | 0.2 | 0.1 | 0.1 | **0.9** | 0.6 | **1** | 0.9 | **2** | 2 | |
| Ni | µg/L | 4 | 2 | 3 | **4** | 3 | **5** | 3 | **3** | 7 | 4 |
| Cu | µg/L | 12 | 8 | 9 | **1** | 0.7 | **0.8** | 1 | **0.4** | 8 | -2 |
| Zn | µg/L | 61 | 47 | 46 | **7** | 16 | **49** | 13 | **4** | 24 | -27 |
| Ga | µg/L | 0.1 | 0.1 | 0.1 | **1** | 0.9 | **1** | 2 | **0.4** | 0.5 | |
| Ge | µg/L | < 0.1 | < 0.1 | < 0.1 | **0.2** | 0.2 | **0.1** | 0.3 | **0.1** | 0.1 | |
| As* | µg/L | 0.1 | 0.1 | 0.1 | **19** | 29 | **13** | 33 | **20** | 9 | |
| Rb | µg/L | 0.7 | 0.4 | 0.4 | **3** | 3 | **3** | 3 | **2** | 3 | |
| Sr | µg/L | 8 | 3 | 2 | **77** | 54 | **77** | 62 | **83** | 56 | 52 |
| Y | µg/L | 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.1 | **0.1** | 0.1 | **0.1** | 0.1 | |
| Zr | µg/L | 0.2 | 0.3 | 0.3 | **< 0.1** | < 0.1 | **0.1** | 0.5 | **0.1** | 0.2 | |
| Nb | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Mo | µg/L | 0.1 | 0.1 | < 0.1 | **17** | 23 | **18** | 26 | **30** | 28 | |
| Ru | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Pd | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Ag | µg/L | 0.1 | 0.1 | 0.1 | **0.3** | 0.3 | **0.2** | 0.2 | **< 0.1** | 0.1 | |
| Cd | µg/L | 0.1 | 0.1 | < 0.1 | **0.1** | 0.2 | **0.3** | < 0.1 | **0.3** | 0.1 | |
| In | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Sn | µg/L | 5 | 4 | 5 | **< 0.1** | < 0.1 | **< 0.1** | 2 | **0.2** | 4 | |
| Sb | µg/L | 0.1 | < 0.1 | 0.1 | **0.1** | 0.1 | **0.1** | < 0.1 | **0.1** | 0.1 | |
| Te | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.4 | **< 0.1** | 0.5 | **< 0.1** | < 0.1 | |
| Cs | µg/L | 0.1 | < 0.1 | < 0.1 | **0.1** | 0.1 | **0.1** | 0.1 | **< 0.1** | 0.1 | |
| Ba | µg/L | 2 | 2 | 2 | **66** | 59 | **65** | 67 | **57** | 46 | |
| La | µg/L | 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | **< 0.1** | 0.1 | |
| Ce | µg/L | 0.3 | 0.1 | 0.1 | **0.2** | 0.2 | **0.2** | 0.2 | **0.1** | 0.1 | |
| Pr | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Nd | µg/L | 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | |
| Sm | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Eu | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Gd | µg/L | 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Tb | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Dy | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Ho | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Er | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Tm | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Yb | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Lu | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Hf | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Ta | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| W | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Re | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Os | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Ir | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Pt | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Au | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Tl | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | |
| Pb | µg/L | 13 | 6 | 6 | **< 0.1** | 0.2 | **< 0.1** | 0.3 | **0.1** | 6 | -2 |
| Bi | µg/L | 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | < 0.1 | **< 0.1** | 0.1 | |
| U | µg/L | < 0.1 | < 0.1 | < 0.1 | **< 0.1** | < 0.1 | **0.1** | < 0.1 | < 0.1 | < 0.1 | |

* Semi-quantative measurements for As tend to be biased high (depending on sample constituents)

**Table 1. Measured concentrations of elements in Anniston cycle 1a peeper pore water samples as determined by ICP-MS semi-quantitative scan. Units µg/L unless otherwise noted.**

| Element | 53300 PPW Blk-1 | 53301 PPW Blk-2 | 53302 PPW Blk-3 | 53303 PPW Midge-1 | 53304 PPW Midge-6 | 53305 PPW Midge-7 | 53306 PPW Midge-8 | 53307 PPW Midge-9 | 53308 PPW Midge-11 | 53309 PPW Midge-18 | 53310 PPW Midge-19 | 53311 PPW Midge-20 | 53312 PPW Midge-25 | 53313 PPW Midge-30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 0.3 | < 0.1 | 0.3 | 0.2 | 0.5 | 0.1 | 1 | 4 | 0.3 | 0.5 | 0.4 | 0.9 | 0.9 | 0.3 |
| Be | 0.2 | < 0.1 | 0.2 | 0.2 | 0.5 | < 0.1 | 0.5 | < 0.1 | < 0.1 | 0.2 | 0.4 | 0.2 | < 0.1 | < 0.1 |
| Na[a] | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 6 | 5 | 5 | 6 |
| Mg[a] | < 0.1 | < 0.1 | < 0.1 | 4.0 | 5.0 | 6.0 | 6.0 | 7.0 | 5.0 | 8.0 | 6.0 | 5.0 | 4.0 | 6.0 |
| Al | 15 | 9 | 17 | 19 | 3 | 26 | 31 | 33 | 16 | 19 | 20 | 31 | 42 | 14 |
| K[a] | 0.6 | < 0.1 | 0.1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 3 | 1 | 2 | 2 |
| Ca[a] | 0.1 | < 0.1 | 0.1 | 15.0 | 23.0 | 25.0 | 29 | 24 | 25 | 32 | 28 | 16 | 19 | 34 |
| Ti | 2 | 0.7 | 3 | 4 | 5 | 4 | 5 | 4 | 4 | 6 | 6 | 1 | 2 | 5 |
| V | 0.5 | 0.5 | 1 | 2 | 0.4 | 0.6 | 2 | 1 | 1 | 0.8 | 1 | 1 | 1 | 0.8 |
| Cr | 10 | 4 | 10 | 5 | 6 | 7 | 11 | 8 | 9 | 13 | 8 | 6 | 6 | < 0.1 |
| Mn | 29 | 15 | 14 | 930 | 720 | 620 | 980 | 4800 | 1000 | 730 | 800 | 600 | 770 | 2300 |
| Fe | 16 | < 1 | 120 | 14900 | 9100 | 10000 | 14100 | 16900 | 12700 | 9700 | 8800 | 1400 | 9600 | 11800 |
| Co | 0.1 | < 0.1 | < 0.1 | 2 | 1 | 1 | 2 | 5 | 3 | 3 | 2 | 2 | 2 | 3 |
| Ni | 1 | 1 | 0.9 | 2 | 2 | 2 | 4 | 2 | 3 | 30 | 6 | 0.8 | 2 | 4 |
| Cu | 1 | 0.8 | 1 | 1 | 4 | 0.7 | 1 | 2 | 0.5 | 1 | 2 | 0.8 | 0.6 | 1 |
| Zn | 16 | 15 | 15 | 5 | 7 | 7 | 24 | 17 | 12 | 19 | 12 | 50 | 8 | 5 |
| Ga | < 0.1 | 0.1 | < 0.1 | 0.1 | 0.3 | 0.3 | 0.4 | 0.6 | 0.4 | 0.5 | 0.4 | 0.1 | 0.4 | 0.7 |
| Ge | 0.1 | < 0.1 | < 0.1 | 0.1 | 0.3 | 0.2 | 0.2 | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.2 | 0.2 | 0.1 |
| As | 0.5 | 0.1 | 0.4 | 24 | 14 | 17 | 10 | 13 | 11 | 10 | 12 | 9 | 14 | 17 |
| Rb | 0.4 | 0.1 | 0.1 | 5 | 3 | 5 | 5 | 3 | 5 | 6 | 6 | 4 | 5 | 5 |
| Sr | < 1 | < 1 | < 1 | 48 | 49 | 95 | 97 | 93 | 94 | 100 | 89 | 74 | 89 | 120 |
| Y | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | 0.1 | < 0.1 | 0.2 | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | 0.1 |
| Zr | < 0.1 | < 0.1 | 0.3 | < 0.1 | < 0.1 | 0.3 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 |
| Mo | 0.1 | < 0.1 | < 0.1 | 1 | 0.8 | 2 | 5 | 0.5 | 1 | 3 | 4 | 1 | 0.8 | 2 |
| Ru | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ag | 0.7 | 0.2 | 0.4 | 0.3 | 0.3 | 0.4 | 0.6 | 0.4 | 0.3 | 0.4 | 0.3 | 0.2 | 0.4 | 0.4 |
| Cd | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.6 | < 0.1 | < 0.1 | 0.1 | < 0.1 | 0.1 | < 0.1 | 0.1 |
| In | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Sn | 3 | 2 | < 0.1 | 0.5 | 0.6 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.5 | < 0.1 | 0.8 | < 0.1 | 1 |

[a]units mg/L.

**Table 1. Measured concentrations of elements in Anniston cycle 1a peeper pore water samples as determined by ICP-MS semi-quantitative scan. Units µg/L unless otherwise noted….(cont'd)….**

| Element | 53300 PPW Blk-1 | 53301 PPW Blk-2 | 53302 PPW Blk-3 | 53303 PPW Midge-1 | 53304 PPW Midge-6 | 53305 PPW Midge-7 | 53306 PPW Midge-8 | 53307 PPW Midge-9 | 53308 PPW Midge-11 | 53309 PPW Midge-18 | 53310 PPW Midge-19 | 53311 PPW Midge-20 | 53312 PPW Midge-25 | 53313 PPW Midge-30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sb | 0.4 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | < 0.1 | 0.1 | 0.1 |
| Te | 0.4 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Cs | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 |
| Ba | < 1 | < 1 | < 1 | 250 | 73 | 300 | 560 | 92 | 540 | 480 | 310 | 100 | 250 | 710 |
| La | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | 0.1 | < 0.1 | 0.2 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 |
| Ce | 0.4 | 0.3 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.6 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 |
| Pr | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nd | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 |
| Sm | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Eu | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Gd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dy | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ho | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Er | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tm | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Yb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Lu | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Hf | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ta | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.1 | 0.1 | 0.1 | < 0.1 | 0.1 | 0.1 | 0.1 |
| W | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Re | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Os | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ir | 0.5 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pt | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Au | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tl | 0.3 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.8 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pb | 0.2 | < 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.7 | 0.4 | 0.1 | 0.2 | 0.7 | 0.1 | 0.3 | 0.1 |
| Bi | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 2 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| U | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 |

**Table 1. Measured concentrations of elements in Anniston cycle 1a peeper pore water samples as determined by ICP-MS semi-quantitative scan. Units µg/L unless otherwise noted….(cont'd)….**

| Element | 53314 PPW Midge-33 | 53315 PPW Amph.-6 | 53316 PPW Amph.-11 | 53317 PPW Amph.-19 | 53318 PPW Amph.-25 | 53319 PPW Amph.-30 | 53320 PPW Amph.-33 | 53411 PPW Blk-1 | 53412 PPW Blk-2 | 53413 PPW Blk-3 | 53414 PPW Blk-4 | 53415 PPW Blk-5 | 53416 PPW Ha-1 | 53417 PPW Ha-6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 6 | 0.5 | 0.9 | 0.7 | 0.8 | 0.9 | 5 | 0.2 | 0.2 | < 0.1 | 0.1 | 0.3 | 0.9 | < 0.1 |
| Be | < 0.1 | 0.2 | 0.2 | < 0.1 | < 0.1 | < 0.1 | 0.2 | < 0.1 | 0.2 | < 0.1 | < 0.1 | 0.2 | 0.9 | < 0.1 |
| Na[a] | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 8 | 10 |
| Mg[a] | 5 | 5 | 5 | 7 | 4 | 5 | 5 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 4 | 4 |
| Al | 10 | 14 | 28 | 17 | 16 | 13 | 14 | 15 | 13 | 20 | 13 | 12 | 120 | 24 |
| K[a] | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 0.1 | < 0.1 | 0.2 | 0.1 | 0.1 | 2 | 2 |
| Ca[a] | 20 | 25 | 25 | 30 | 17 | 28 | 20 | 0.2 | 0.1 | < 0.1 | 0.1 | 0.2 | 12 | 19 |
| Ti | 7 | 7 | 4 | 4 | 4 | 7 | 6 | 0.3 | 1 | 3 | < 0.1 | 1 | 5 | 6 |
| V | 1 | 0.9 | 2 | 2 | 2 | 0.9 | 0.8 | 0.9 | 0.9 | 0.7 | 0.5 | 0.5 | 2 | 1 |
| Cr | < 0.1 | 11 | 12 | 10 | 8 | 6 | 8 | 10 | 7 | < 0.1 | 5 | 7 | 9 | 9 |
| Mn | 8500 | 690 | 1100 | 1200 | 620 | 2000 | 8000 | 9 | 8 | 10 | 9 | 7 | 960 | 630 |
| Fe | 13200 | 8200 | 12500 | 8000 | 8700 | 9700 | 12000 | < 1 | < 1 | < 1 | < 1 | < 1 | 14300 | 8100 |
| Co | 0.9 | 1 | 2 | 3 | 2 | 2 | 1 | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | 3 | 1 |
| Ni | 4 | 2 | 3 | 6 | 2 | 3 | 5 | 0.7 | 0.9 | 1 | 1 | 0.7 | 3 | 2 |
| Cu | 1 | 0.6 | 0.8 | 0.5 | 0.6 | 0.7 | 0.8 | 1 | 1 | 1 | 2 | 6 | 2 | 0.7 |
| Zn | 7 | 7 | 6 | 5 | 7 | 6 | 49 | 24 | 23 | 16 | 22 | 21 | 13 | 9 |
| Ga | 1 | 0.7 | 0.2 | 0.3 | 0.4 | 0.5 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 | 0.2 | 0.3 |
| Ge | 0.2 | < 0.1 | < 0.1 | 0.1 | 0.3 | 0.2 | 0.1 | 0.2 | < 0.1 | < 0.1 | 0.2 | < 0.1 | 0.3 | 0.1 |
| As | 19 | 12 | 11 | 13 | 8 | 10 | 13 | < 0.1 | 0.1 | 0.9 | < 0.1 | 0.7 | 21 | 15 |
| Rb | 3 | 2 | 4 | 5 | 3 | 4 | 3 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 6 | 3 |
| Sr | 77 | 49 | 90 | 91 | 80 | 97 | 77 | < 1 | < 1 | < 1 | < 1 | < 1 | 41 | 35 |
| Y | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.4 | < 0.1 |
| Zr | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 |
| Nb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mo | 17 | 1 | 4 | 4 | 1 | 1 | 18 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 5 | 3 |
| Ru | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ag | 0.3 | 0.3 | 0.6 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.6 | 0.2 | 0.2 | 0.6 | 0.2 |
| Cd | 0.1 | < 0.1 | 0.1 | < 0.1 | 0.1 | < 0.1 | 0.3 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 |
| In | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Sn | < 0.1 | < 0.1 | 0.6 | < 0.1 | 0.6 | < 0.1 | < 0.1 | 0.8 | 1 | 3 | 1 | 1 | 0.9 | < 0.1 |

[a]units mg/L.

**Table 1. Measured concentrations of elements in Anniston cycle 1a peeper pore water samples as determined by ICP-MS semi-quantitative scan. Units µg/L unless otherwise noted….(cont'd)….**

| Element | 53314 PPW Midge-33 | 53315 PPW Amph.-6 | 53316 PPW Amph.-11 | 53317 PPW Amph.-19 | 53318 PPW Amph.-25 | 53319 PPW Amph.-30 | 53320 PPW Amph.-33 | 53411 PPW Blk-1 | 53412 PPW Blk-2 | 53413 PPW Blk-3 | 53414 PPW Blk-4 | 53415 PPW Blk-5 | 53416 PPW Ha-1 | 53417 PPW Ha-6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sb | 0.1 | 0.1 | 0.1 | 0.3 | 0.1 | 0.1 | 0.1 | < 0.1 | 0.1 | 0.4 | < 0.1 | < 0.1 | 0.1 | 0.1 |
| Te | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.4 | < 0.1 | < 0.1 | 0.2 | < 0.1 |
| Cs | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ba | 66 | 66 | 500 | 280 | 210 | 590 | 65 | < 1 | < 1 | < 1 | < 1 | < 1 | 310 | 61 |
| La | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.4 | < 0.1 |
| Ce | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1 | 0.2 |
| Pr | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 |
| Nd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.5 | < 0.1 |
| Sm | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 |
| Eu | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 |
| Gd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 |
| Tb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dy | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 |
| Ho | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Er | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tm | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Yb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Lu | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Hf | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ta | < 0.1 | < 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | < 0.1 | 0.1 | 0.1 | 0.3 | < 0.1 | < 0.1 | 0.2 | 0.1 |
| W | < 0.1 | < 0.1 | 0.1 | 0.2 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 |
| Re | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Os | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ir | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.6 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pt | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Au | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tl | < 0.1 | < 0.1 | 0.7 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 1 | < 0.1 |
| Pb | < 0.1 | 0.1 | 0.3 | 0.3 | 0.1 | 0.2 | < 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 | 0.9 | 0.2 |
| Bi | < 0.1 | < 0.1 | 2 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 2 | < 0.1 |
| U | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 |

**Table 1. Measured concentrations of elements in Anniston cycle 1a peeper pore water samples as determined by ICP-MS semi-quantitative scan. Units µg/L unless otherwise noted….(cont'd)….**

| Element | 53418 PPW Ha-7 | 53419 PPW Ha-8 | 53420 PPW Ha-9 | 53421 PPW Ha-11 | 53422 PPW Ha-18 | 53423 PPW Ha-19 | 53424 PPW Ha-20 | 53425 PPW Ha-25 | 53426 PPW Ha-30 | 53427 PPW Ha-33 | 53428 PPW Cd-6 | 53429 PPW Cd-11 | 53430 PPW Cd-18 | 53431 PPW Cd-25 | 53432 PPW Cd-30 | 53433 PPW Cd-33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 0.7 | 0.6 | 2 | 0.3 | 0.5 | 0.4 | 1 | 0.8 | 1 | 4 | 0.3 | 0.4 | 0.2 | 0.6 | 0.9 | 4 |
| Be | 0.2 | 0.2 | 0.4 | 0.2 | < 0.1 | < 0.1 | < 0.1 | 0.4 | 0.2 | 0.2 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Na | 17 | 11 | 11 | 11 | 17 | 12 | 9 | 11 | 12 | 16 | 10 | 10 | 16 | 11 | 16 | 17 |
| Mg | 8 | 7 | 6 | 4 | 7 | 6 | 5 | 5 | 5 | 4 | 5 | 5 | 7 | 4 | 6 | 5 |
| Al | 41 | 31 | 23 | 110 | 32 | 24 | 43 | 47 | 77 | 13 | 40 | 21 | 18 | 63 | 22 | 18 |
| K | 4 | 3 | 2 | 2 | 4 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 4 | 2 | 3 | 2 |
| Ca | 31 | 29 | 17 | 18 | 29 | 25 | 12 | 16 | 23 | 15 | 24 | 23 | 29 | 16 | 29 | 15 |
| Ti | 9 | 7 | 3 | 7 | 5 | 6 | 5 | 4 | 5 | 6 | 10 | 8 | 7 | 7 | 8 | 7 |
| V | 1 | 1 | 0.6 | 1 | 1 | 1 | 0.6 | 2 | 1 | 1 | 1 | 0.9 | 1 | 2 | 0.8 | 2 |
| Cr | 25 | 4 | 5 | 6 | 5 | 3 | 4 | 6 | 9 | 7 | 6 | 9 | 8 | 290 | 2 | 5 |
| Mn | 1100 | 1100 | 4900 | 800 | 670 | 790 | 540 | 830 | 2000 | 6900 | 750 | 1100 | 500 | 680 | 2100 | 7600 |
| Fe | 11500 | 11600 | 13000 | 11600 | 8200 | 7400 | 1200 | 9200 | 2100 | 15200 | 12900 | 17500 | 10800 | 13600 | 14000 | 14800 |
| Co | 3 | 3 | 5 | 2 | 2 | 2 | 1 | 2 | 3 | 0.6 | 1 | 3 | 2 | 2 | 3 | 0.9 |
| Ni | 3 | 4 | 3 | 2 | 4 | 6 | 2 | 2 | 6 | 3 | 3 | 2 | 3 | 5 | 2 | 3 |
| Cu | 1 | 1 | 2 | 1 | 1 | 0.9 | 4 | 2 | 2 | 0.7 | 0.5 | 0.6 | 0.5 | 1 | 0.8 | 1 |
| Zn | 37 | 13 | 29 | 32 | 9 | 26 | 29 | 36 | 58 | 16 | 21 | 9 | 9 | 28 | 18 | 13 |
| Ga | 0.4 | 0.6 | 1 | 0.4 | 0.5 | 0.5 | 0.4 | 0.5 | 0.4 | 0.9 | 0.5 | 0.5 | 0.5 | 0.7 | 0.6 | 2 |
| Ge | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 | 0.3 | < 0.1 | < 0.1 | 0.2 | 0.2 | < 0.1 | 0.2 | 0.1 | 0.2 | 0.3 |
| As | 28 | 13 | 14 | 9 | 12 | 11 | 11 | 12 | 15 | 29 | 14 | 18 | 8 | 14 | 24 | 33 |
| Rb | 7 | 7 | 6 | 5 | 7 | 6 | 5 | 5 | 4 | 3 | 4 | 6 | 8 | 5 | 6 | 3 |
| Sr | 120 | 91 | 51 | 70 | 88 | 70 | 54 | 74 | 80 | 54 | 48 | 92 | 96 | 78 | 110 | 62 |
| Y | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Zr | < 0.1 | < 0.1 | < 0.1 | 0.4 | 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.2 | < 0.1 | < 0.1 | 0.5 |
| Nb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mo | 4 | 3 | 1 | 1 | 3 | 4 | 3 | 2 | 5 | 23 | 1 | 2 | 3 | 3 | 3 | 26 |
| Ru | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ag | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.1 | 0.2 | 0.4 | 0.3 | 0.2 | 0.2 | 0.4 | 0.1 | 0.4 | 0.2 |
| Cd | < 0.1 | < 0.1 | 0.3 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.2 | 0.2 | 0.1 | < 0.1 | 0.1 | 0.2 | < 0.1 |
| In | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Sn | < 0.1 | < 0.1 | 0.9 | 1 | < 0.1 | 1 | 0.5 | 1 | < 0.1 | < 0.1 | 1 | 1 | 2 | < 0.1 | 2 | 2 |

**Table 1. Measured concentrations of elements in Anniston cycle 1a peeper pore water samples as determined by ICP-MS semi-quantitative scan. Units µg/L unless otherwise noted….(cont'd)….**

| Element | 53418 PPW Ha-7 | 53419 PPW Ha-8 | 53420 PPW Ha-9 | 53421 PPW Ha-11 | 53422 PPW Ha-18 | 53423 PPW Ha-19 | 53424 PPW Ha-20 | 53425 PPW Ha-25 | 53426 PPW Ha-30 | 53427 PPW Ha-33 | 53428 PPW Cd-6 | 53429 PPW Cd-11 | 53430 PPW Cd-18 | 53431 PPW Cd-25 | 53432 PPW Cd-30 | 53433 PPW Cd-33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sb | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | < 0.1 |
| Te | 5 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.9 | < 0.1 | < 0.1 | 0.4 | < 0.1 | 4 | < 0.1 | < 0.1 | 0.7 | 0.5 |
| Cs | 0.1 | 0.1 | < 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Ba | 480 | 650 | 82 | 550 | 480 | 280 | 100 | 290 | 700 | 59 | 140 | 740 | 620 | 240 | 740 | 67 |
| La | 0.1 | < 0.1 | 0.1 | 0.3 | < 0.1 | < 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 | 0.2 | 0.1 | 0.1 |
| Ce | 0.5 | 0.3 | 0.3 | 0.9 | 0.3 | 0.1 | 0.5 | 0.5 | 0.6 | 0.2 | 0.4 | 0.2 | 0.2 | 0.6 | 0.2 | 0.2 |
| Pr | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 |
| Nd | 0.2 | < 0.1 | < 0.1 | 0.2 | < 0.1 | < 0.1 | 0.1 | 0.1 | 0.3 | < 0.1 | 0.2 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Sm | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Eu | 0.1 | 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | 0.1 | < 0.1 |
| Gd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dy | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ho | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Er | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tm | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Yb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Lu | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Hf | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ta | 0.1 | 0.1 | < 0.1 | < 0.1 | 0.2 | < 0.1 | < 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | < 0.1 | < 0.1 |
| W | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | 0.2 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 |
| Re | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Os | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ir | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.4 | < 0.1 | < 0.1 |
| Pt | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Au | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tl | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.7 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pb | 0.9 | 0.6 | 1 | 1 | 0.3 | 0.4 | 0.5 | 0.4 | 2 | 0.2 | 0.5 | 0.2 | 0 | 0 | 0.7 | 0.3 |
| Bi | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 2 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| U | 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |

**Table 2. Percent relative standard deviation from repeated analysis of Trace Metals in Drinking Water Standard[a] during a semi-quantitative sample run of pore water samples. Results expressed in ng/mL unless otherwise noted.**

| Ele. | Run #1 | Run #2 | Run #3 | Run #4 | Run #5 | Run #6 | Run #7 | Actual Conc | Mean Conc | SD | % RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 20.8 | 20.0 | 20.6 | 21.0 | 20.3 | 19.8 | 19.9 | 20. | 20.3 | 0.5 | 2.4 |
| Be | 20.6 | 20.0 | 20.4 | 20.7 | 19.6 | 20.5 | 20.3 | 20. | 20.3 | 0.4 | 1.8 |
| Na[b] | 6.1 | 6.1 | 6.3 | 6.4 | 6.2 | 6.6 | 6.4 | 6.0 | 6.3 | 0.2 | 3.1 |
| Mg[b] | 9.4 | 9.5 | 9.8 | 9.9 | 9.3 | 9.9 | 10.0 | 9.0 | 9.7 | 0.3 | 2.8 |
| Al | 126. | 125. | 125. | 129. | 126. | 130. | 131. | 120. | 127.5 | 2.3 | 1.8 |
| K[b] | 3.5 | 3.4 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 2.5 | 3.5 | 0.1 | 1.5 |
| Ca[b] | 35.9 | 34.7 | 36.1 | 36.4 | 35.2 | 36.3 | 35.4 | 35. | 35.7 | 0.6 | 1.8 |
| V | 29.6 | 29.5 | 30.1 | 29.7 | 29.1 | 30.6 | 29.6 | 30. | 29.7 | 0.5 | 1.6 |
| Cr | 20.7 | 20.3 | 20.7 | 21.0 | 19.7 | 20.9 | 20.0 | 20. | 20.5 | 0.5 | 2.3 |
| Mn | 39.9 | 39.2 | 39.4 | 40.3 | 39.5 | 39.7 | 39.0 | 40. | 39.6 | 0.4 | 1.1 |
| Fe | 163. | 157. | 166. | 160. | 154. | 150. | 156. | 100. | 158.1 | 5.5 | 3.5 |
| Co | 25.7 | 25.2 | 25.7 | 26.0 | 24.9 | 25.2 | 25.7 | 25. | 25.5 | 0.4 | 1.6 |
| Ni | 59.9 | 61.3 | 62.2 | 61.1 | 58.2 | 61.0 | 60.2 | 60. | 60.6 | 1.3 | 2.1 |
| Cu | 19.9 | 19.8 | 20.0 | 19.8 | 19.6 | 20.4 | 19.8 | 20. | 19.9 | 0.2 | 1.3 |
| Zn | 70.1 | 69.6 | 69.4 | 70.0 | 68.1 | 69.5 | 67.8 | 70. | 69.2 | 0.9 | 1.3 |
| As | 78.9 | 79.6 | 79.4 | 79.9 | 78.6 | 79.4 | 78.9 | 80. | 79.2 | 0.5 | 0.6 |
| Se | 10.4 | 9.7 | 9.7 | 10.2 | 9.9 | 9.9 | 9.0 | 10. | 9.8 | 0.5 | 4.6 |
| Rb | 10.8 | 10.7 | 10.4 | 10.8 | 9.0 | 10.9 | 9.2 | 10. | 10.3 | 0.8 | 7.6 |
| Sr | 329. | 331. | 245. | 249. | 246. | 332. | 330. | 250. | 294.5 | 44.8 | 15. |
| Mo | 100. | 98. | 100. | 101. | 99. | 100. | 100. | 100. | 99.8 | 0.9 | 0.9 |
| Ag | 2.0 | 2.0 | 2.0 | 2.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 0.0 | 0.8 |
| Cd | 10.3 | 10.3 | 10.0 | 10.5 | 10.1 | 10.2 | 10.2 | 10. | 10.2 | 0.1 | 1.4 |
| Sb | 10.3 | 10.2 | 10.4 | 10.4 | 10.3 | 10.5 | 10.4 | 10. | 10.4 | 0.1 | 0.9 |
| Te | 3.1 | 3.2 | 3.3 | 3.3 | 3.0 | 3.1 | 3.2 | 3.0 | 3.2 | 0.1 | 3.7 |
| Ba | 53.2 | 52.2 | 53.8 | 55.0 | 53.4 | 54.3 | 54.9 | 50. | 53.8 | 1.0 | 1.8 |
| Pr | 10.5 | 10.4 | 10.7 | 10.7 | 10.6 | 10.5 | 10.7 | 10. | 10.6 | 0.1 | 1.1 |
| Tb | 10.3 | 10.1 | 10.6 | 10.4 | 10.3 | 10.2 | 10.5 | 10. | 10.3 | 0.2 | 1.5 |
| Tm | 10.2 | 10.0 | 10.3 | 10.2 | 10.0 | 10.3 | 10.1 | 10. | 10.1 | 0.1 | 1.4 |
| Ta | 10.6 | 10.5 | 10.7 | 10.6 | 10.1 | 10.5 | 10.2 | 10. | 10.5 | 0.2 | 1.9 |
| Au | 0.51 | 0.50 | 0.52 | 0.53 | 0.51 | 0.51 | 0.53 | 10. | 0.5 | 0.0 | 2.2 |
| Tl | 10.24 | 10.2 | 10.7 | 10.5 | 10.4 | 10.4 | 10.3 | 10. | 10.4 | 0.2 | 1.7 |
| Pb | 41.8 | 40.6 | 42.5 | 42.2 | 40.7 | 40.9 | 40.8 | 40. | 41.3 | 0.8 | 2.0 |
| Bi | 8.7 | 8.4 | 8.8 | 8.6 | 8.6 | 8.6 | 8.6 | 10. | 8.6 | 0.1 | 1.5 |
| U | 10.6 | 10.3 | 10.5 | 10.4 | 10.1 | 10.3 | 9.9 | 10. | 10.3 | 0.3 | 2.5 |

[a]High Purity Trace Metals in Drinking Water, Cat # CRM-TMDW, Charleston, SC.; Pr, Tb, Tm, Ta, and Au manually added to represent rare earth region of the mass spectral range.

[b]concentrations are ppm (µg/mL)

## Table 3. Recovery of elements from laboratory control samples determined with semi-quantitative analysis of pore water samples.

### a. SPEX ClaritasPPT[a]

| Element | Actual Conc | Meas Conc | % Rec |
|---|---|---|---|
| Be | 50. | 56. | 112. |
| Na | 500. | 537. | 107. |
| Mg | 500. | 434. | 87. |
| Al | 50. | 62. | 125. |
| K | 500. | 705. | 141. |
| Ca | 500. | 572. | 114. |
| Ti | 50. | 54. | 109. |
| V | 50. | 53. | 107. |
| Cr | 50. | 53. | 106. |
| Mn | 50. | 53. | 107. |
| Fe | 500. | 595. | 119. |
| Co | 50. | 56. | 112. |
| Ni | 50. | 56. | 113. |
| Cu | 50. | 57. | 113. |
| Zn | 50. | 60. | 119. |
| As | 50. | 55. | 109. |
| Se | 50. | 59. | 118. |
| Sr | 50. | 50. | 99. |
| Mo | 50. | 49. | 98. |
| Ag | 50. | 54. | 108. |
| Cd | 50. | 53. | 107. |
| Sn | 50. | 58. | 115. |
| Sb | 50. | 52. | 105. |
| Ba | 50. | 55. | 110. |
| Tl | 50. | 54. | 109. |
| Pb | 50. | 56. | 112. |

[a] a mixture of SPEX Claritas PPT Instrument Check Standards 1 (CL-ICS-1), 3 (CL-ICS-3, and 5 (CL-ICS-5); SPEX CertiPrep, Inc., Metuchen, NJ; units ng/mL.

### b. SPEX Custom Multielement Standards[b]

| Element | Actual Conc | Meas Conc | % Rec |
|---|---|---|---|
| Pr | 10. | 10.1 | 101. |
| Tb | 10. | 9.7 | 97. |
| Tm | 10. | 9.8 | 98. |
| Ta | 10. | 11.1 | 111. |
| Ir | 10. | 9.9 | 99. |

[b] a mixture of SPEX Custom Multielement Standards XCERCMO-1 and XCERCMO-2; SPEX CertiPrep, Inc., Metuchen, NJ; units ng/mL.

## Table 4. Percent change in internal standards from beginning to end of the ICP-MS semi-quantitative run of pore water samples.

| BID | Run Date | IS | Conc (ppb) | Matrix | Initial Intensity | End Intensity | % Change |
|---|---|---|---|---|---|---|---|
| 12/19/10 | 12/22/10 | Sc | 10. | pore water | 137388 | 120067 | 14. |
| 12/19/10 | 12/22/10 | Rh | 10. | pore water | 183773 | 153040 | 20. |
| 12/19/10 | 12/22/10 | Th | 10. | pore water | 229240 | 203067 | 13. |

**Table 5. Blank equivalent concentrations (µg/g) of elements in reagent/container blanks for the pore water sample set.**

| Element | BEC Blk 1 | BEC Blk 2 | BEC Blk 3 |
|---|---|---|---|
| Li | 0.3 | < 0.1 | 0.3 |
| Be | 0.2 | < 0.1 | 0.2 |
| Na | 5 | 5 | 5 |
| Mg | < 0.1 | < 0.1 | < 0.1 |
| Al | 15 | 9 | 17 |
| K | 0.6 | < 0.1 | 0.1 |
| Ca | 0.1 | < 0.1 | 0.1 |
| Ti | 2.0 | 0.7 | 3 |
| V | 0.5 | 0.5 | 1 |
| Cr | 10 | 4 | 10 |
| Mn | 29 | 15 | 14 |
| Fe | 16 | < 1 | 120 |
| Co | 0.1 | < 0.1 | < 0.1 |
| Ni | 1 | 1 | 0.9 |
| Cu | 1 | 0.8 | 1 |
| Zn | 16 | 15 | 15 |
| Ga | < 0.1 | 0.1 | < 0.1 |
| Ge | 0.1 | < 0.1 | < 0.1 |
| As | 0.5 | 0.1 | 0.4 |
| Se | < 1 | < 1 | < 1 |
| Rb | 0.4 | 0.1 | 0.1 |
| Sr | < 1 | < 1 | < 1 |
| Y | < 0.1 | < 0.1 | < 0.1 |
| Zr | < 0.1 | < 0.1 | 0.3 |
| Nb | < 0.1 | < 0.1 | < 0.1 |
| Mo | 0.1 | < 0.1 | < 0.1 |
| Ru | < 0.1 | < 0.1 | < 0.1 |
| Pd | < 0.1 | < 0.1 | < 0.1 |
| Ag | 0.7 | 0.2 | 0.4 |
| Cd | 0.1 | < 0.1 | < 0.1 |
| In | < 0.1 | < 0.1 | < 0.1 |
| Sn | 3 | 2 | < 0.1 |
| Sb | 0.4 | 0.2 | 0.1 |
| Te | 0.4 | < 0.1 | < 0.1 |
| Cs | < 0.1 | < 0.1 | < 0.1 |
| Ba | < 1 | < 1 | < 1 |
| La | < 0.1 | < 0.1 | < 0.1 |
| Ce | 0.4 | 0.3 | 0.3 |
| Pr | < 0.1 | < 0.1 | < 0.1 |
| Nd | < 0.1 | < 0.1 | < 0.1 |
| Sm | < 0.1 | < 0.1 | < 0.1 |
| Eu | < 0.1 | < 0.1 | < 0.1 |
| Gd | < 0.1 | < 0.1 | < 0.1 |
| Tb | < 0.1 | < 0.1 | < 0.1 |
| Dy | < 0.1 | < 0.1 | < 0.1 |
| Ho | < 0.1 | < 0.1 | < 0.1 |
| Er | < 0.1 | < 0.1 | < 0.1 |
| Tm | < 0.1 | < 0.1 | < 0.1 |
| Yb | < 0.1 | < 0.1 | < 0.1 |
| Lu | < 0.1 | < 0.1 | < 0.1 |
| Hf | < 0.1 | < 0.1 | < 0.1 |
| Ta | 0.2 | 0.2 | 0.1 |
| W | < 0.1 | < 0.1 | < 0.1 |
| Re | < 0.1 | < 0.1 | < 0.1 |
| Os | < 0.1 | < 0.1 | < 0.1 |
| Ir | 0.5 | 0.2 | 0.2 |
| Pt | 0.1 | < 0.1 | < 0.1 |
| Au | < 0.1 | < 0.1 | < 0.1 |
| Tl | 0.3 | < 0.1 | < 0.1 |
| Pb | 0.2 | < 0.1 | 0.1 |
| Bi | < 0.1 | < 0.1 | < 0.1 |
| U | < 0.1 | < 0.1 | < 0.1 |

**Table 6. Blank equivalent concentrations (µg/g) of elements in reagent/container blanks for the pore water sample set.**

| Element | BEC Blk 1 | BEC Blk 2 | BEC Blk 3 | BEC Blk 4 | BEC Blk 5 |
|---|---|---|---|---|---|
| Li | 0.2 | 0.2 | < 0.1 | 0.1 | 0.3 |
| Be | < 0.1 | 0.2 | < 0.1 | < 0.1 | 0.2 |
| Na | 6 | 6 | 6 | 6 | 6 |
| Mg | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Al | 15 | 13 | 20 | 13 | 12 |
| K | 0.1 | < 0.1 | 0.2 | 0.1 | 0.1 |
| Ca | 0.2 | 0.1 | < 0.1 | 0.1 | 0.2 |
| Ti | 0.3 | 1 | 3 | < 0.1 | 1 |
| V | 0.9 | 0.9 | 0.7 | 0.5 | 0.5 |
| Cr | 10 | 7 | < 0.1 | 5 | 7 |
| Mn | 9 | 8 | 10 | 9 | 7 |
| Fe | < 1 | < 1 | < 1 | < 1 | < 1 |
| Co | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 |
| Ni | 0.7 | 0.9 | 1 | 1 | 0.7 |
| Cu | 1 | 1 | 1 | 2 | 6 |
| Zn | 24 | 23 | 16 | 22 | 21 |
| Ga | 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 |
| Ge | 0.2 | < 0.1 | < 0.1 | 0.2 | < 0.1 |
| As | < 0.1 | 0.1 | 0.9 | < 0.1 | 0.7 |
| Se | < 1 | < 1 | < 1 | < 1 | < 1 |
| Rb | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Sr | < 1 | < 1 | < 1 | < 1 | < 1 |
| Y | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 |
| Zr | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mo | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ru | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ag | 0.3 | 0.3 | 0.6 | 0.2 | 0.2 |
| Cd | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 |
| In | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Sn | 0.8 | 1 | 3 | 1 | 1 |

| Element | BEC Blk 1 | BEC Blk 2 | BEC Blk 3 | BEC Blk 4 | BEC Blk 5 |
|---|---|---|---|---|---|
| Sb | < 0.1 | 0.1 | 0.4 | < 0.1 | < 0.1 |
| Te | < 0.1 | < 0.1 | 0.4 | < 0.1 | < 0.1 |
| Cs | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ba | < 1 | < 1 | < 1 | < 1 | < 1 |
| La | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ce | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Pr | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Sm | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Eu | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Gd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dy | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ho | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Er | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tm | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Yb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Lu | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Hf | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ta | 0.1 | 0.1 | 0.3 | < 0.1 | < 0.1 |
| W | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Re | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Os | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ir | < 0.1 | < 0.1 | 0.6 | < 0.1 | < 0.1 |
| Pt | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Au | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tl | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pb | 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 |
| Bi | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| U | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |

**Table 1. Measured concentrations of elements in Anniston cycle 1b peeper samples as determined by ICP-MS semi-quantitative scan. Units µg/L unless otherwise noted.**

| | 53992 PW BLK-1 | 53993 PW BLK-2 | 53994 PW BLK-3 | 53995 PW-2 | 53996 PW-4 | 53997 PW-10 | 53998 PW-13 | 53999 PW-14 | 54000 PW-15 | 54001 PW-16 | 54002 PW-17 | 54003 PW-20 | 54004 PW-22 | 54005 PW-23 | 54006 PW-24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | < 0.1 | 0.1 | 0.1 | 1 | 1 | 6 | 0.9 | 0.7 | 0.6 | 0.3 | 0.4 | 2 | 1 | 0.8 | 4 |
| Be | < 0.1 | < 0.1 | 0.1 | < 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Na[a] | 6 | 6 | 6 | 7 | 7 | 11 | 7 | 7 | 6 | 8 | 7 | 7 | 8 | 8 | 10 |
| Mg[a] | < 0.1 | < 0.1 | < 0.1 | 6 | 8 | 12 | 6 | 5 | 4 | 4 | 5 | 8 | 8 | 6 | 8 |
| Al | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| K[a] | < 0.1 | < 0.1 | < 0.1 | 2 | 1 | 2 | 1 | 2 | 3 | 0.7 | 2 | 2 | 1 | 2 | 2 |
| Ca[a] | 0.1 | < 0.1 | < 0.1 | 20.0 | 23.0 | 38.0 | 16 | 20 | 10 | 17 | 14 | 20 | 22 | 16 | 27 |
| Ti | 0.9 | 0.5 | 0.5 | 5 | 2 | 3 | 5 | 4 | 2 | 0.5 | 5 | 3 | 2 | 2 | 2 |
| V | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 | 0.4 | 0.5 | 0.2 | 0.4 | 0.3 | 0.2 | 0.2 | < 0.1 |
| Cr | 0.4 | 0.4 | 0.5 | 0.3 | 0.2 | 0.2 | 0.4 | < 0.1 | 0.2 | < 0.1 | 0.1 | 2 | < 0.1 | 0.2 | 0.4 |
| Mn | 0.1 | 0.1 | 0.1 | 1400 | 7000 | 6100 | 1100 | 620 | 1200 | 350 | 1100 | 700 | 4500 | 910 | 6100 |
| Fe | < 1 | < 1 | < 1 | 6500 | 11500 | 6900 | 8000 | 3700 | 9500 | < 1 | 11500 | 2400 | 7300 | 4400 | 2100 |
| Co | < 0.1 | < 0.1 | < 0.1 | 2 | 5 | 3 | 3 | 3 | 5 | 1 | 2 | 3 | 3 | 3 | 4 |
| Ni | 0.2 | 0.2 | 0.2 | 1 | 1 | 2 | 1 | 1 | 1 | 0.5 | 1 | 2 | 1 | 1 | 2 |
| Cu | 0.2 | 0.2 | 0.1 | 0.7 | 0.3 | 0.4 | 0.4 | 0.3 | 0.2 | 0.3 | 0.3 | 0.4 | 0.2 | 0.3 | 0.3 |
| Zn | 15 | 16 | 15 | 2 | 1 | 2 | 1 | 20 | 2 | 0.4 | 6 | 2 | 0.3 | 8 | < 0.1 |
| Ga | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.4 | 0.4 | 0.1 | 0.1 | 0.2 | < 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 |
| Ge | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| As | < 0.1 | < 0.1 | < 0.1 | 13 | 21 | 11 | 16 | 14 | 11 | 0.1 | 19 | 16 | 15 | 6 | 6 |
| Rb | < 0.1 | < 0.1 | < 0.1 | 3 | 4 | 3 | 3 | 3 | 6 | 2 | 4 | 4 | 4 | 3 | 3 |
| Sr | < 1 | < 1 | < 1 | 120 | 62 | 160 | 56 | 54 | 48 | 47 | 45 | 86 | 66 | 89 | 100 |
| Y | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.4 | 0.2 | 0.2 | < 0.1 | 0.1 | 0.1 | < 0.1 |
| Zr | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Nb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mo | < 0.1 | < 0.1 | < 0.1 | 2 | 1 | 0.6 | 1 | 2 | 0.6 | 0.1 | 2 | 3 | 1 | 2 | 1 |
| Ru | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ag | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Cd | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| In | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Sn | 0.4 | 0.4 | 0.3 | 0.2 | 0.1 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.1 | 2 |

[a]units mg/L.

**Table 1. Measured concentrations of elements in Anniston cycle 1b peeper samples as determined by ICP-MS semi-quantitative scan (cont'd). Units µg/L unless otherwise noted.**

| | 53992 PW BLK-1 | 53993 PW BLK-2 | 53994 PW BLK-3 | 53995 PW-2 | 53996 PW-4 | 53997 PW-10 | 53998 PW-13 | 53999 PW-14 | 54000 PW-15 | 54001 PW-16 | 54002 PW-17 | 54003 PW-20 | 54004 PW-22 | 54005 PW-23 | 54006 PW-24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sb | < 0.1 | < 0.1 | < 0.1 | 0.2 | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | 0.1 | 0.1 |
| Te | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Cs | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ba | 0.3 | 0.1 | 0.1 | 240 | 92 | 71 | 200 | 190 | 41 | 29 | 52 | 71 | 55 | 100 | 73 |
| La | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.2 | 0.1 | < 0.1 | < 0.1 | 0.3 | 0.1 | 0.1 | < 0.1 | 0.1 | < 0.1 | 0.1 |
| Ce | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.5 | 0.2 | 0.1 | 0.1 | 0.9 | 0.1 | 0.2 | < 0.1 | 0.2 | < 0.1 | 0.1 |
| Pr | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.2 | 0.1 | < 0.1 | < 0.1 | 0.4 | 0.1 | 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 |
| Sm | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Eu | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Gd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dy | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ho | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Er | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tm | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Yb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Lu | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Hf | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ta | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| W | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.2 | 0.5 |
| Re | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Os | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ir | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pt | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Au | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tl | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pb | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.3 | 0.2 | < 0.1 | 0.4 | 0.1 | 0.1 | 0.2 | 0.1 |
| Bi | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.3 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| U | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.5 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | 0.1 |

**Table 1. Measured concentrations of elements in Anniston cycle 1b peeper samples as determined by ICP-MS semi-quantitative scan (cont'd). Units µg/L unless otherwise noted.**

| | 54007 PW-26 | 54008 PW-27 | 54009 PW-28 | 54010 PW-29 | 54011 PW-33 | 54176 ERDC BLK-1 | 54177 ERDC BLK-2 | 54178 ERDC BLK-3 | 54179 ERDC-2 | 54180 ERDC-4 | 54181 ERDC-10 | 54182 ERDC-13 | 54183 ERDC-14 | 54184 ERDC-15 | 54185 ERDC-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Li | 2 | 1 | 3 | 2 | 5 | 0.5 | 0.3 | 0.3 | 1 | 3 | 1 | 1 | 0.9 | 3 | 0.7 |
| Be | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | 0.1 |
| Na[a] | 9 | 7 | 8 | 8 | 9 | 16 | 16 | 16 | 20 | 18 | 20 | 18 | 16 | 17 | 19 |
| Mg[a] | 7 | 5 | 6 | 7 | 7 | 0.4 | 0.2 | 0.2 | 6 | 9 | 5 | 5 | 5 | 5 | 3 |
| Al | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 120 | 27 | 29 | 120 | 89 | 75 | 76 | 160 | 130 | 220 |
| K[a] | 2 | 2 | 3 | 1 | 2 | 0.2 | 0.1 | 0.1 | 2 | 3 | 2 | 2 | 3 | 5 | 1 |
| Ca[a] | 22 | 12 | 22 | 19 | 21 | 0.4 | 0.2 | 0.1 | 13 | 15 | 13 | 11 | 15 | 9 | 11 |
| Ti | 2 | 2 | 7 | 2 | 5 | 1 | 0.7 | 0.7 | 7 | 5 | 6 | 4 | 7 | 5 | 4 |
| V | 0.1 | 0.6 | 0.2 | 0.2 | 0.4 | < 0.1 | < 0.1 | < 0.1 | 0.4 | 0.2 | 0.2 | 0.7 | 0.7 | 0.9 | 0.5 |
| Cr | 0.4 | 0.4 | 0.2 | < 0.1 | < 0.1 | 0.7 | 0.6 | 0.6 | 0.6 | 0.7 | 0.5 | 0.7 | 1 | 0.9 | 1 |
| Mn | 3100 | 2000 | 4400 | 1400 | 10100 | 3 | 2 | 2 | 1000 | 4200 | 4600 | 1100 | 550 | 2400 | 25 |
| Fe | 7000 | 11200 | 11200 | 4500 | 10300 | 170 | 180 | 170 | 2400 | 3200 | 7700 | 2000 | 2600 | 3000 | 480 |
| Co | 3 | 5 | 5 | 2 | 2 | 0.2 | 0.1 | 0.1 | 2 | 3 | 3 | 3 | 2 | 5 | 0.3 |
| Ni | 1 | 1 | 1 | 1 | 3 | 4 | 2 | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 3 |
| Cu | 0.2 | 0.2 | 0.2 | 0.1 | 0.4 | 12 | 8 | 9 | 13 | 11 | 10 | 11 | 11 | 12 | 13 |
| Zn | 2 | 1 | < 0.1 | 8 | 4 | 61 | 47 | 46 | 39 | 28 | 27 | 29 | 35 | 33 | 32 |
| Ga | 0.2 | 0.2 | 0.2 | 0.1 | 0.4 | 0.1 | 0.1 | 0.1 | 0.3 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 |
| Ge | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| As | 14 | 16 | 8 | 10 | 20 | 0.1 | 0.1 | 0.1 | 11 | 10 | 12 | 9 | 12 | 5 | 0.3 |
| Rb | 3 | 5 | 4 | 3 | 2 | 0.7 | 0.4 | 0.4 | 4 | 6 | 6 | 4 | 5 | 9 | 2 |
| Sr | 75 | 49 | 75 | 56 | 83 | 8 | 3 | 2 | 86 | 54 | 46 | 39 | 42 | 43 | 29 |
| Y | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.3 | 0.5 | 0.4 |
| Zr | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 |
| Nb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mo | 0.7 | 2 | 0.5 | 0.9 | 30 | 0.1 | 0.1 | < 0.1 | 2 | 1 | 0.4 | 2 | 2 | 0.7 | 0.1 |
| Ru | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ag | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1 | 0.8 | 0.1 |
| Cd | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.3 | 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 |
| In | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Sn | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 5 | 4 | 5 | 12 | 9 | 8 | 9 | 9 | 11 | 13 |

[a]units mg/L.

**Table 1. Measured concentrations of elements in Anniston cycle 1b peeper samples as determined by ICP-MS semi-quantitative scan (cont'd). Units µg/L unless otherwise noted.**

| | 54007 PW-26 | 54008 PW-27 | 54009 PW-28 | 54010 PW-29 | 54011 PW-33 | 54176 ERDC BLK-1 | 54177 ERDC BLK-2 | 54178 ERDC BLK-3 | 54179 ERDC-2 | 54180 ERDC-4 | 54181 ERDC-10 | 54182 ERDC-13 | 54183 ERDC-14 | 54184 ERDC-15 | 54185 ERDC-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sb | < 0.1 | 0.1 | 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 |
| Te | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Cs | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Ba | 54 | 93 | 76 | 34 | 57 | 2 | 2 | 2 | 170 | 55 | 52 | 150 | 180 | 38 | 24 |
| La | 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.3 | 0.4 | 0.3 |
| Ce | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 | 0.3 | 0.1 | 0.1 | 0.4 | 0.4 | 0.5 | 0.3 | 0.7 | 1 | 0.6 |
| Pr | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | 0.1 | 0.1 | 0.1 |
| Nd | 0.1 | 0.2 | 0.1 | 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.4 | 0.6 | 0.4 |
| Sm | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Eu | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 |
| Gd | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | 0.1 | 0.1 | 0.1 |
| Tb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dy | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | 0.1 |
| Ho | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Er | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tm | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Yb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Lu | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Hf | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ta | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| W | < 0.1 | < 0.1 | 0.2 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 |
| Re | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Os | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ir | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pt | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Au | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tl | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pb | 0.1 | 0.1 | 0.1 | < 0.1 | 0.1 | 13 | 6 | 6 | 8 | 7 | 7 | 8 | 8 | 7 | 7 |
| Bi | < 0.1 | 0.3 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | 0.1 | 0.4 | 0.1 | 0.1 | 0.1 |
| U | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 |

**Table 1. Measured concentrations of elements in Anniston cycle 1b peeper samples as determined by ICP-MS semi-quantitative scan (cont'd). Units µg/L unless otherwise noted.**

| | 54186 ERDC-17 | 54187 ERDC-22 | 54188 ERDC-23 | 54189 ERDC-24 | 54190 ERDC-26 | 54191 ERDC-27 | 54192 ERDC-28 | 54193 ERDC-29 | 54194 ERDC-33 |
|---|---|---|---|---|---|---|---|---|---|
| Li | 0.8 | 2 | 5 | 4 | 3 | 0.8 | 4 | 2 | 6 |
| Be | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Na | 16 | 20 | 22 | 21 | 20 | 16 | 23 | 20 | 22 |
| Mg | 3 | 7 | 9 | 6 | 7 | 4 | 8 | 6 | 6 |
| Al | 180 | 53 | 250 | 64 | 100 | 130 | 76 | 60 | 21 |
| K | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 2 | 3 |
| Ca | 8 | 14 | 18 | 13 | 12 | 6 | 14 | 12 | 14 |
| Ti | 7 | 4 | 12 | 3 | 5 | 5 | 8 | 4 | 5 |
| V | 0.9 | 0.1 | 1 | 0.1 | 0.2 | 1 | 0.1 | 0.2 | 0.3 |
| Cr | 1 | 0.4 | 0.9 | 1 | 2 | 0.9 | 0.7 | 0.4 | 0.4 |
| Mn | 1000 | 3500 | 760 | 3500 | 2600 | 1500 | 3100 | 1100 | 7900 |
| Fe | 6000 | 5000 | 6100 | 410 | 2300 | 7800 | 5000 | 3000 | 2800 |
| Co | 2 | 3 | 3 | 3 | 2 | 2 | 4 | 2 | 2 |
| Ni | 4 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 7 |
| Cu | 12 | 10 | 13 | 11 | 12 | 11 | 10 | 10 | 8 |
| Zn | 39 | 25 | 32 | 32 | 31 | 38 | 25 | 42 | 24 |
| Ga | 0.3 | 0.3 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.5 |
| Ge | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 |
| As | 14 | 11 | 9 | 2 | 8 | 15 | 10 | 8 | 9 |
| Rb | 6 | 6 | 6 | 5 | 5 | 6 | 5 | 4 | 3 |
| Sr | 24 | 42 | 95 | 44 | 44 | 26 | 51 | 30 | 56 |
| Y | 0.5 | 0.1 | 0.7 | 0.1 | 0.1 | 0.6 | 0.2 | 0.2 | 0.1 |
| Zr | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 |
| Nb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Mo | 2 | 1 | 1 | 2 | 0.8 | 2 | 0.9 | 1 | 28 |
| Ru | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ag | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Cd | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 |
| In | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Sn | 8 | 7 | 8 | 6 | 11 | 10 | 7 | 6 | 4 |

**Table 1. Measured concentrations of elements in Anniston cycle 1b peeper samples as determined by ICP-MS semi-quantitative scan (cont'd). Units µg/L unless otherwise noted.**

| | 54186 ERDC-17 | 54187 ERDC-22 | 54188 ERDC-23 | 54189 ERDC-24 | 54190 ERDC-26 | 54191 ERDC-27 | 54192 ERDC-28 | 54193 ERDC-29 | 54194 ERDC-33 |
|---|---|---|---|---|---|---|---|---|---|
| Sb | 0.1 | < 0.1 | 0.2 | 0.3 | < 0.1 | < 0.1 | 0.2 | < 0.1 | 0.1 |
| Te | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Cs | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Ba | 37 | 46 | 100 | 57 | 39 | 71 | 51 | 31 | 46 |
| La | 0.4 | 0.1 | 0.6 | 0.1 | 0.1 | 0.4 | 0.2 | 0.1 | 0.1 |
| Ce | 1 | 0.3 | 2 | 0.2 | 0.3 | 1 | 0.4 | 0.3 | 0.1 |
| Pr | 0.1 | < 0.1 | 0.2 | < 0.1 | < 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 |
| Nd | 0.6 | 0.1 | 0.8 | 0.1 | 0.2 | 0.6 | 0.2 | 0.2 | 0.1 |
| Sm | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Eu | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Gd | 0.2 | < 0.1 | 0.2 | < 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | < 0.1 |
| Tb | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dy | 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ho | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Er | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tm | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Yb | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Lu | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Hf | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ta | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| W | < 0.1 | < 0.1 | 0.1 | 0.2 | < 0.1 | < 0.1 | 0.4 | < 0.1 | < 0.1 |
| Re | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Os | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ir | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pt | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Au | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Tl | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 |
| Pb | 8 | 6 | 8 | 7 | 8 | 8 | 7 | 7 | 6 |
| Bi | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.4 | 0.1 | 0.1 |
| U | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | < 0.1 | < 0.1 |

**Table 2. Percent relative standard deviation from repeated analysis of Trace Metals in Drinking Water Standard[a] during a semi-quantitative sample run of cycle 1b pore water samples. Results expressed in ng/mL unless otherwise noted.**

| Ele. | Run #1 | Run #2 | Run #3 | Run #4 | Run #5 | Run #6 | Actual Conc | Mean Conc | SD | % RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| Li | 19.6 | 20.1 | 21.1 | 21.6 | 21.9 | 22.9 | 20. | 21.2 | 1.2 | 5.7 |
| Be | 20.9 | 21.2 | 20.4 | 21.3 | 21.0 | 22.3 | 20. | 21.2 | 0.6 | 2.9 |
| Na[b] | 5.9 | 6.3 | 6.9 | 7.3 | 7.5 | 7.5 | 6.0 | 6.9 | 0.7 | 9.6 |
| Mg[b] | 8.8 | 9.6 | 10.2 | 10.7 | 11.1 | 11.4 | 9.0 | 10.3 | 1.0 | 9.6 |
| Al | 117. | 126. | 127. | 135. | 131. | 139. | 120. | 129.2 | 7.8 | 6.1 |
| K[b] | 2.7 | 2.9 | 3.1 | 3.2 | 3.2 | 3.3 | 2.5 | 3.1 | 0.2 | 7.1 |
| Ca[b] | 34.8 | 35.1 | 37.0 | 38.0 | 37.8 | 37.8 | 35. | 36.7 | 1.4 | 3.9 |
| V | 28.7 | 29.8 | 30.3 | 30.4 | 29.8 | 30.7 | 30. | 29.9 | 0.7 | 2.3 |
| Cr | 20.0 | 19.9 | 19.8 | 21.1 | 20.5 | 20.5 | 20. | 20.3 | 0.5 | 2.4 |
| Mn | 36.3 | 38.2 | 40.0 | 42.2 | 42.1 | 42.7 | 40. | 40.3 | 2.6 | 6.4 |
| Fe | 99. | 101. | 102. | 110. | 110. | 116. | 100. | 106.4 | 6.7 | 6.3 |
| Co | 24.7 | 25.4 | 25.3 | 25.9 | 26.2 | 26.4 | 25. | 25.6 | 0.6 | 2.5 |
| Ni | 59.1 | 59.7 | 59.8 | 61.0 | 61.9 | 62.3 | 60. | 60.6 | 1.3 | 2.1 |
| Cu | 19.3 | 19.7 | 19.5 | 20.1 | 20.0 | 20.2 | 20. | 19.8 | 0.3 | 1.6 |
| Zn | 64.1 | 66.9 | 68.2 | 71.9 | 72.2 | 72.9 | 70. | 69.4 | 3.5 | 5.1 |
| As | 76.2 | 78.4 | 78.6 | 81.2 | 82.2 | 81.5 | 80. | 79.7 | 2.3 | 2.9 |
| Se | 9.3 | 9.9 | 10.4 | 10.5 | 10.4 | 10.8 | 10. | 10.2 | 0.5 | 5.2 |
| Rb | 8.9 | 9.8 | 9.7 | 10.1 | 10.2 | 10.1 | 10. | 9.8 | 0.5 | 4.7 |
| Sr | 218. | 237. | 257. | 266. | 274. | 270. | 250. | 253.7 | 21.9 | 8.6 |
| Mo | 96. | 96. | 96. | 98. | 97. | 95. | 100. | 96.4 | 0.8 | 0.8 |
| Ag | 2.1 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 | 2.0 | 2.0 | 0.1 | 2.6 |
| Cd | 9.8 | 9.8 | 9.8 | 9.5 | 9.3 | 9.3 | 10. | 9.6 | 0.3 | 2.8 |
| Sb | 10.4 | 10.2 | 9.8 | 9.3 | 8.7 | 8.8 | 10. | 9.5 | 0.7 | 7.6 |
| Te | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 | 2.7 | 3.0 | 3.0 | 0.3 | 9.9 |
| Ba | 54.7 | 50.8 | 46.0 | 43.4 | 41.0 | 41.4 | 50. | 46.2 | 5.5 | 12. |
| Pr | 11.6 | 10.6 | 9.6 | 9.3 | 8.7 | 8.8 | 10. | 9.8 | 1.1 | 11. |
| Tb | 12.2 | 10.9 | 9.8 | 9.5 | 9.5 | 9.5 | 10. | 10.2 | 1.1 | 11. |
| Tm | 12.1 | 11.2 | 10.1 | 9.9 | 9.9 | 9.9 | 10. | 10.5 | 0.9 | 8.7 |
| Ta | 11.9 | 10.6 | 10.0 | 11.5 | 9.7 | 9.8 | 10. | 10.6 | 0.9 | 8.9 |
| Au | 0.61 | 0.60 | 0.57 | 0.57 | 0.55 | 0.56 | 10. | 0.6 | 0.0 | 4.1 |
| Tl | 10.66 | 10.6 | 10.0 | 9.9 | 10.1 | 10.0 | 10. | 10.2 | 0.3 | 3.1 |
| Pb | 42.1 | 39.6 | 40.0 | 41.6 | 41.3 | 42.1 | 40. | 41.1 | 1.1 | 2.6 |
| Bi | 8.6 | 8.8 | 8.4 | 8.3 | 8.5 | 8.6 | 10. | 8.5 | 0.2 | 2.0 |
| U | 10.2 | 10.2 | 10.4 | 10.5 | 10.3 | 10.1 | 10. | 10.3 | 0.1 | 1.4 |

[a]High Purity Trace Metals in Drinking Water, Cat # CRM-TMDW, Charleston, SC.; Pr, Tb, Tm, Ta, and Au manually added to represent rare earth region of the mass spectral range.

[b]concentrations are ppm (µg/mL)

## Table 3. Recovery of elements from laboratory control samples determined with semi-quantitative analysis of cycle 1b pore water samples.

**a. SPEX ClaritasPPT[a]**

| Element | Actual Conc | Meas Conc | % Rec |
|---|---|---|---|
| Be | 50. | 56. | 112. |
| Na | 500. | 559. | 112. |
| Mg | 500. | 539. | 108. |
| Al | 50. | 56. | 112. |
| K | 500. | 605. | 121. |
| Ca | 500. | 564. | 113. |
| Ti | 50. | 52. | 103. |
| V | 50. | 51. | 103. |
| Cr | 50. | 52. | 104. |
| Mn | 50. | 52. | 104. |
| Fe | 500. | 441. | 88. |
| Co | 50. | 56. | 111. |
| Ni | 50. | 54. | 109. |
| Cu | 50. | 55. | 111. |
| Zn | 50. | 57. | 114. |
| As | 50. | 54. | 109. |
| Se | 50. | 56. | 112. |
| Sr | 50. | 50. | 100. |
| Mo | 50. | 48. | 95. |
| Ag | 50. | 53. | 106. |
| Cd | 50. | 49. | 98. |
| Sn | 50. | 55. | 110. |
| Sb | 50. | 48. | 96. |
| Ba | 50. | 51. | 103. |
| Tl | 50. | 56. | 112. |
| Pb | 50. | 57. | 113. |

[a] a mixture of SPEX Claritas PPT Instrument Check Standards 1 (CL-ICS-1), 3 (CL-ICS-3, and 5 (CL-ICS-5); SPEX CertiPrep, Inc., Metuchen, NJ; units ng/mL.

**b. SPEX Custom Multielement Standards[b]**

| Element | Actual Conc | Meas Conc | % Rec |
|---|---|---|---|
| Pr | 10. | 9.3 | 93. |
| Tb | 10. | 9.7 | 97. |
| Tm | 10. | 10.1 | 101. |
| Ta | 10. | 11.4 | 114. |
| Ir | 10. | 10.2 | 102. |

[b] a mixture of SPEX Custom Multielement Standards XCERCMO-1 and XCERCMO-2; SPEX CertiPrep, Inc., Metuchen, NJ; units ng/mL.

**Table 4. Percent change in internal standards from beginning to end of the ICP-MS semi-quantitative run of cycle 1b pore water samples.**

| BID | Run Date | IS | Conc (ppb) | Matrix | Initial Intensity | End Intensity | % Change |
|---|---|---|---|---|---|---|---|
| 02/11/11 | 03/01/11 | Sc | 10. | pore water | 175476 | 182975 | 4.1 |
| 02/11/11 | 03/01/11 | Rh | 10. | pore water | 259910 | 261865 | 0.7 |
| 02/11/11 | 03/01/11 | Th | 10. | pore water | 255179 | 314143 | 19. |

**Table 5. Blank equivalent concentrations (µg/L) of elements in USGS peeper blanks collected with the pore water sample set.**

| Element | PW Blk 1 | PW Blk 2 | PW Blk 3 | Element | PW Blk 1 | PW Blk 2 | PW Blk 3 |
|---|---|---|---|---|---|---|---|
| Li | < 0.1 | 0.1 | 0.1 | Sb | < 0.1 | < 0.1 | < 0.1 |
| Be | < 0.1 | < 0.1 | 0.1 | Te | < 0.1 | < 0.1 | < 0.1 |
| Na | 6 | 6 | 6 | Cs | < 0.1 | < 0.1 | < 0.1 |
| Mg | < 0.1 | < 0.1 | < 0.1 | Ba | 0.3 | 0.1 | 0.1 |
| Al | < 0.1 | < 0.1 | < 0.1 | La | < 0.1 | < 0.1 | < 0.1 |
| K | < 0.1 | < 0.1 | < 0.1 | Ce | < 0.1 | < 0.1 | < 0.1 |
| Ca | 0.1 | < 0.1 | < 0.1 | Pr | < 0.1 | < 0.1 | < 0.1 |
| Ti | 0.9 | 0.5 | 0.5 | Nd | < 0.1 | < 0.1 | < 0.1 |
| V | 0.1 | 0.2 | 0.2 | Sm | < 0.1 | < 0.1 | < 0.1 |
| Cr | 0.4 | 0.4 | 0.5 | Eu | < 0.1 | < 0.1 | < 0.1 |
| Mn | 0.1 | 0.1 | 0.1 | Gd | < 0.1 | < 0.1 | < 0.1 |
| Fe | < 1 | < 1 | < 1 | Tb | < 0.1 | < 0.1 | < 0.1 |
| Co | < 0.1 | < 0.1 | < 0.1 | Dy | < 0.1 | < 0.1 | < 0.1 |
| Ni | 0.2 | 0.2 | 0.2 | Ho | < 0.1 | < 0.1 | < 0.1 |
| Cu | 0.2 | 0.2 | 0.1 | Er | < 0.1 | < 0.1 | < 0.1 |
| Zn | 15 | 16 | 15 | Tm | < 0.1 | < 0.1 | < 0.1 |
| Ga | < 0.1 | < 0.1 | < 0.1 | Yb | < 0.1 | < 0.1 | < 0.1 |
| Ge | < 0.1 | < 0.1 | < 0.1 | Lu | < 0.1 | < 0.1 | < 0.1 |
| As | < 0.1 | < 0.1 | < 0.1 | Hf | < 0.1 | < 0.1 | < 0.1 |
| Se | < 1 | < 1 | < 1 | Ta | < 0.1 | < 0.1 | < 0.1 |
| Rb | < 0.1 | < 0.1 | < 0.1 | W | < 0.1 | < 0.1 | < 0.1 |
| Sr | < 1 | < 1 | < 1 | Re | < 0.1 | < 0.1 | < 0.1 |
| Y | < 0.1 | < 0.1 | < 0.1 | Os | < 0.1 | < 0.1 | < 0.1 |
| Zr | 0.1 | 0.1 | 0.1 | Ir | < 0.1 | < 0.1 | < 0.1 |
| Nb | < 0.1 | < 0.1 | < 0.1 | Pt | < 0.1 | < 0.1 | < 0.1 |
| Mo | < 0.1 | < 0.1 | < 0.1 | Au | < 0.1 | < 0.1 | < 0.1 |
| Ru | < 0.1 | < 0.1 | < 0.1 | Tl | < 0.1 | < 0.1 | < 0.1 |
| Pd | < 0.1 | < 0.1 | < 0.1 | Pb | 0.1 | 0.1 | 0.1 |
| Ag | < 0.1 | < 0.1 | < 0.1 | Bi | < 0.1 | < 0.1 | < 0.1 |
| Cd | 0.1 | < 0.1 | < 0.1 | U | < 0.1 | < 0.1 | < 0.1 |
| In | < 0.1 | < 0.1 | < 0.1 | | | | |
| Sn | 0.4 | 0.4 | 0.3 | | | | |

**Comparison of loss on ignition (%), acid volatile sulfide (µmol/g dw), simultaneously extracted metals (µg/g dw) and SEM-AVS (µmol/g dw) values in Anniston sediments across individual toxicity tests.**
All samples obtained from testing beakers on Day 21 of tests and analyzed at CERC. Values in italics are less than quantitation limits.

Cycle 1a

| | LOI | | | | AVS | | | |
|---|---|---|---|---|---|---|---|---|
| Test Species | Midge | Amph | HA | CD | Midge | Amph | HA | CD |
| SED ID | | | | | | | | |
| 1 | 2.3 | | --- | --- | 1.15 | | 0.90 | |
| 6 | 3.0 | 3.5 | --- | --- | 0.80 | 0.56 | 0.61 | 1.20 |
| 7 | 8.6 | | --- | --- | 2.63 | | 2.74 | |
| 8 | 7.5 | | --- | --- | 1.29 | | 1.03 | |
| 9 | 1.4 | | --- | --- | 0.46 | | 0.46 | |
| 11 | 7.2 | 7.4 | --- | --- | 1.34 | 0.96 | 1.23 | 1.97 |
| 18 | 7.4 | | --- | --- | 1.50 | | 1.01 | 2.53 |
| 19 | 6.9 | 7.3 | --- | --- | 1.44 | 0.70 | 1.01 | |
| 20 | 2.3 | | --- | --- | 0.64 | | 0.56 | |
| 25 | 6.6 | 6.5 | --- | --- | 1.63 | 1.21 | 1.80 | 2.09 |
| 30 | 5.6 | 5.6 | --- | --- | 0.99 | 0.87 | 0.95 | 1.73 |
| 33 | 2.4 | 2.5 | --- | --- | 1.31 | 1.31 | 1.61 | 1.82 |

| | SEM_Cu | | | | SEM_Ni | | | | SEM_Zn | | | | SEM_Cd | | | | SEM_Pb | | | | SEM-AVS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Test Species | Midge | Amph | HA | CD | Midge | Amph | HA | CD | Midge | Amph | HA | CD | Midge | Amph | HA | CD | Midge | Amph | HA | CD | Midge | Amph | HA | CD |
| SED ID | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 3.95 | | 4.19 | | 1.92 | | 2.04 | | 25.5 | | 21.9 | | 0.10 | | 0.085 | | 20.7 | | 16.9 | | -0.56 | | -0.38 | |
| 6 | 5.25 | 6.68 | 6.86 | 1.66 | 2.41 | 5.56 | 2.37 | 3.08 | 29.1 | 27.3 | 28.3 | 27.6 | 0.15 | 0.15 | 0.15 | 0.11 | 19.3 | 16.6 | 17.4 | 19.1 | -0.14 | 0.14 | 0.057 | -0.61 |
| 7 | 7.02 | | 6.99 | | 4.37 | | 3.83 | | 66.8 | | 65.5 | | 0.24 | | 0.22 | | 44.8 | | 42.1 | | -1.20 | | -1.36 | |
| 8 | 11.0 | | 16.6 | | 7.75 | | 11.0 | | 108. | | 120. | | 0.37 | | 0.41 | | 119. | | 124. | | 1.24 | | 1.86 | |
| 9 | 1.34 | | 1.49 | | 1.76 | | 2.42 | | 4.7 | | 5.7 | | 0.042 | | 0.018 | | 2.46 | | 2.78 | | -0.33 | | -0.29 | |
| 11 | 14.5 | 14.8 | 12.7 | 4.99 | 3.50 | 4.06 | 4.05 | 4.32 | 109. | 93.1 | 107. | 100. | 0.28 | 0.26 | 0.29 | 0.26 | 57.4 | 48.7 | 56.2 | 54.8 | 0.90 | 1.00 | 0.95 | - 0.025 |
| 18 | 11.0 | | 17.1 | 7.20 | 8.75 | | 8.64 | 8.01 | 103. | | 110. | 102. | 0.42 | | 0.44 | 0.39 | 112. | | 113. | 109. | 0.95 | | 1.64 | -0.19 |
| 19 | 12.4 | 14.9 | 15.0 | | 12.6 | 10.8 | 13.5 | | 125. | 110. | 125. | | 0.55 | 0.38 | 0.42 | | 146. | 122. | 145. | | 1.59 | 2.00 | 2.07 | |
| 20 | 3.48 | | 4.32 | | 1.41 | | 13.8 | | 12.6 | | 12.6 | | 0.061 | | 0.046 | | 10.6 | | 10.4 | | -0.31 | | - 0.012 | |
| 25 | 5.11 | 5.69 | 5.15 | 1.98 | 3.18 | 2.82 | 3.96 | 2.26 | 38.4 | 33.2 | 36.7 | 32.7 | 0.13 | 0.12 | 0.14 | 0.11 | 23.9 | 20.9 | 23.1 | 22.7 | -0.79 | -0.47 | -0.98 | -1.41 |
| 30 | 9.51 | 13.4 | 12.7 | 6.92 | 5.02 | 5.57 | 12.1 | 6.22 | 83.9 | 99.4 | 99.9 | 105. | 0.27 | 0.25 | 0.26 | 0.31 | 70.1 | 76.9 | 82.2 | 83.8 | 0.87 | 1.33 | 1.38 | 0.50 |
| 33 | 3.52 | 3.56 | 3.76 | 3.41 | 6.29 | 5.87 | 6.21 | 6.91 | 20.8 | 21.5 | 23.4 | 23.0 | 0.14 | 0.15 | 0.18 | 0.17 | 5.10 | 5.38 | 5.72 | 5.62 | -0.81 | -0.80 | -1.05 | -1.27 |

Cycle 1b

| | AVS | | SEM_Cu | | SEM_Ni | | SEM_Zn | | SEM_Cd | | SEM_Pb | | SEM-AVS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Testing Lab | CERC | ERDC | CERC | ERDC | CERC | ERDC | CERC | ERDC | CERC | ERDC | CERC | ERDC | CERC | ERDC |
| SED ID | | | | | | | | | | | | | | |
| 2 | 1.85 | 1.86 | 10.2 | 13.0 | 4.05 | 3.36 | 112. | 114. | 0.38 | 0.36 | 56.6 | 56.1 | 0.37 | 0.42 |
| 4 | 0.20 | 0.20 | 1.12 | 1.35 | 2.50 | 2.37 | 4.1 | 4.0 | < 0.023 | < 0.023 | 2.20 | 2.27 | - 0.063 | - 0.066 |
| 10 | 0.43 | 0.65 | 2.83 | 2.76 | 3.34 | 3.39 | 8.8 | 7.3 | *0.038* | *0.037* | 3.93 | 3.95 | -0.18 | -0.41 |
| 13 | 0.63 | 0.59 | 9.68 | 9.36 | 3.38 | 2.60 | 26.8 | 25.1 | 0.11 | 0.15 | 22.8 | 20.5 | 0.10 | 0.088 |
| 14 | 0.67 | 0.88 | 8.67 | 7.91 | 3.18 | 3.03 | 38.8 | 37.4 | 0.15 | 0.17 | 28.6 | 28.9 | 0.25 | 0.014 |
| 15 | 0.38 | 0.36 | 5.55 | 4.68 | 1.27 | 1.45 | 12.2 | 11.1 | 0.077 | *0.073* | 15.6 | 15.0 | - 0.004 | - 0.020 |
| 16 | 0.00 | 0.00 | 1.20 | 0.91 | 1.21 | 0.45 | 2.4 | 2.0 | 0.05 | *0.046* | 4.63 | 4.25 | 0.10 | 0.074 |
| 17 | 0.40 | 0.55 | 9.28 | 9.00 | 2.12 | 4.53 | 32.6 | 33.1 | 0.14 | 0.14 | 23.1 | 23.8 | 0.39 | 0.29 |
| 20 | 0.32 | --- | 4.90 | --- | 1.58 | --- | 13.5 | --- | 0.078 | --- | 11.7 | --- | 0.043 | --- |
| 22 | 0.49 | 0.46 | 1.38 | 1.63 | 2.51 | 6.66 | 4.9 | 4.9 | *0.030* | *0.032* | 2.56 | 2.76 | -0.34 | -0.23 |
| 23 | 1.25 | 1.32 | 5.10 | 6.76 | 1.65 | 5.44 | 26.0 | 26.7 | *0.085* | 0.10 | 16.3 | 16.7 | -0.67 | -0.63 |
| 24 | 0.30 | 0.36 | 1.38 | 2.11 | 1.69 | 5.30 | 13.7 | 12.2 | *0.050* | *0.048* | 3.45 | 3.25 | - 0.028 | - 0.032 |
| 26 | 0.34 | 0.36 | 1.12 | 1.20 | 2.67 | 4.58 | 4.4 | 4.6 | < 0.023 | < 0.023 | 2.36 | 2.46 | -0.20 | -0.18 |
| 27 | 0.55 | 0.34 | 6.40 | 6.66 | 2.48 | 2.97 | 17.6 | 17.1 | 0.093 | *0.073* | 15.5 | 14.9 | - 0.067 | 0.15 |
| 28 | 0.52 | 0.89 | 3.55 | 3.06 | 2.17 | 3.45 | 19.2 | 20.3 | 0.10 | 0.087 | 4.89 | 9.60 | -0.11 | -0.42 |
| 29 | 0.55 | 0.56 | 1.53 | 1.72 | 2.22 | 5.28 | 6.3 | 5.9 | *0.039* | *0.025* | 3.63 | 3.21 | -0.37 | -0.33 |
| 33 | 1.19 | 1.29 | 5.35 | 4.86 | 7.03 | 6.61 | 28.2 | 26.0 | 0.22 | 0.22 | 7.26 | 6.81 | -0.52 | -0.67 |

| ED 33 (contrc | Test # | Testing Lab | AVS | SEM_Cu | SEM_Ni | SEM_Zn | SEM_Cd | SEM_Pb | SEM-AVS |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | CERC | 1.31 | 3.52 | 6.29 | 20.8 | 0.14 | 5.10 | -0.81 |
| | 2 | ERDC | 1.31 | 3.56 | 5.87 | 21.5 | 0.15 | 5.38 | -0.80 |
| | 3 | CERC | 1.61 | 3.76 | 6.21 | 23.4 | 0.18 | 5.72 | -1.05 |
| | 4 | ERDC | 1.82 | 3.41 | 6.91 | 23.0 | 0.17 | 5.62 | -1.27 |
| | 5 | CERC | 1.19 | 5.35 | 7.03 | 28.2 | 0.22 | 7.26 | -0.52 |
| | 6 | ERDC | 1.29 | 4.86 | 6.61 | 26.0 | 0.22 | 6.81 | -0.67 |

**Table 1. Percent moisture, loss on ignition, acid volatile sulfide (µmol/g dry wgt), and simultaneously extracted metals (µg/g dry wgt) in Anniston sediments.**

| CERC # | Submitter ID | % Moisture | % LOI | AVS | SEM Cu | SEM Ni | SEM Zn | SEM Cd | SEM Pb | Σ / AVS[a] | Σ - AVS[b] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 53321 | Sed Midge-1 | 34.2 | 2.3 | 1.15 | 3.95 | 1.92 | 25.5 | 0.10 | 20.7 | 0.51 | -0.56 |
| 53322 | Sed Midge-6 | 31.9 | 3.0 | 0.80 | 5.25 | 2.41 | 29.1 | 0.15 | 19.3 | 0.83 | -0.14 |
| 53323 | Sed Midge-7 | 44.8 | 8.6 | 2.63 | 7.02 | 4.37 | 66.8 | 0.24 | 44.8 | 0.54 | -1.20 |
| 53324 | Sed Midge-8 | 39.5 | 7.5 | 1.29 | 11.0 | 7.75 | 108. | 0.37 | 119. | 1.96 | 1.24 |
| 53325 | Sed Midge-9 | 23.4 | 1.4 | 0.46 | 1.34 | 1.76 | 4.7 | 0.042 | 2.46 | 0.29 | -0.33 |
| 53326 | Sed Midge-11 | 40.0 | 7.2 | 1.34 | 14.5 | 3.50 | 109. | 0.28 | 57.4 | 1.67 | 0.90 |
| 53327 | Sed Midge-18 | 43.0 | 7.4 | 1.50 | 11.0 | 8.75 | 103. | 0.42 | 112. | 1.63 | 0.95 |
| 53328 | Sed Midge-19 | 40.6 | 6.9 | 1.44 | 12.4 | 12.6 | 125. | 0.55 | 146. | 2.10 | 1.59 |
| 53329 | Sed Midge-20 | 25.8 | 2.3 | 0.64 | 3.48 | 1.41 | 12.6 | 0.061 | 10.6 | 0.51 | -0.31 |
| 53330 | Sed Midge-25 | 38.3 | 6.6 | 1.63 | 5.11 | 3.18 | 38.4 | 0.13 | 23.9 | 0.52 | -0.79 |
| 53331 | Sed Midge-30 | 22.0 | 5.6 | 0.99 | 9.51 | 5.02 | 83.9 | 0.27 | 70.1 | 1.88 | 0.87 |
| 53332 | Sed Midge-33 | 27.2 | 2.4 | 1.31 | 3.52 | 6.29 | 20.8 | 0.14 | 5.10 | 0.39 | -0.81 |
| 53333 | Sed Amph.-6 | 18.9 | 3.5 | 0.56 | 6.68 | 5.56 | 27.3 | 0.15 | 16.6 | 1.25 | 0.14 |
| 53334 | Sed Amph.-11 | 27.6 | 7.4 | 0.96 | 14.8 | 4.06 | 93.1 | 0.26 | 48.7 | 2.04 | 1.00 |
| 53335 | Sed Amph.-19 | 29.3 | 7.3 | 0.70 | 14.9 | 10.8 | 110. | 0.38 | 122. | 3.86 | 2.00 |
| 53336 | Sed Amph.-25 | 27.5 | 6.5 | 1.21 | 5.69 | 2.82 | 33.2 | 0.12 | 20.9 | 0.62 | -0.47 |
| 53337 | Sed Amph.-30 | 25.0 | 5.6 | 0.87 | 13.4 | 5.57 | 99.4 | 0.25 | 76.9 | 2.52 | 1.33 |
| 53338 | Sed Amph.-33 | 28.3 | 2.5 | 1.31 | 3.56 | 5.87 | 21.5 | 0.15 | 5.38 | 0.39 | -0.80 |
| 53434 | Sed Ha-1 | 20.6 | --- | 0.90 | 4.19 | 2.04 | 21.9 | 0.085 | 16.9 | 0.58 | -0.38 |
| 53435 | Sed Ha-6 | 20.9 | --- | 0.61 | 6.86 | 2.37 | 28.3 | 0.15 | 17.4 | 1.09 | 0.057 |
| 53436 | Sed Ha-7 | 43.4 | --- | 2.74 | 6.99 | 3.83 | 65.5 | 0.22 | 42.1 | 0.50 | -1.36 |
| 53437 | Sed Ha-8 | 39.4 | --- | 1.03 | 16.6 | 11.0 | 120. | 0.41 | 124. | 2.81 | 1.86 |
| 53438 | Sed Ha-9 | 22.7 | --- | 0.46 | 1.49 | 2.42 | 5.7 | 0.018 | 2.78 | 0.36 | -0.29 |
| 53439 | Sed Ha-11 | 39.1 | --- | 1.23 | 12.7 | 4.05 | 107. | 0.29 | 56.2 | 1.77 | 0.95 |
| 53440 | Sed Ha-18 | 41.8 | --- | 1.01 | 17.1 | 8.64 | 110. | 0.44 | 113. | 2.62 | 1.64 |
| 53441 | Sed Ha-19 | 40.1 | --- | 1.01 | 15.0 | 13.5 | 125. | 0.42 | 145. | 3.05 | 2.07 |
| 53442 | Sed Ha-20 | 24.1 | --- | 0.56 | 4.32 | 13.8 | 12.6 | 0.046 | 10.4 | 0.98 | - 0.012 |

**Table 1. Percent moisture, loss on ignition, acid volatile sulfide (µmol/g dry wgt), and simultaneously extracted metals (µg/g dry wgt) in Anniston sediments.**

(***bold and italicized*** values are less than the method quantitation limit and have high uncertainty)

| CERC # | Submitter ID | % Moisture | % LOI | AVS | SEM Cu | SEM Ni | SEM Zn | SEM Cd | SEM Pb | Σ / AVS[a] | Σ - AVS[b] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 53443 | Sed Ha-25 | 36.9 | --- | 1.80 | 5.15 | 3.96 | 36.7 | 0.14 | 23.1 | 0.46 | -0.98 |
| 53444 | Sed Ha-30 | 33.3 | --- | 0.95 | 12.7 | 12.1 | 99.9 | 0.26 | 82.2 | 2.45 | 1.38 |
| 53445 | Sed Ha-33 | 36.8 | --- | 1.61 | 3.76 | 6.21 | 23.4 | 0.18 | 5.72 | 0.34 | -1.05 |
| 53446 | Sed Cd-6 | 30.5 | --- | 1.20 | 1.66 | 3.08 | 27.6 | 0.11 | 19.1 | 0.49 | -0.61 |
| 53447 | Sed Cd-11 | 39.5 | --- | 1.97 | 4.99 | 4.32 | 100. | 0.26 | 54.8 | 0.99 | - 0.025 |
| 53448 | Sed Cd-18 | 43.9 | --- | 2.53 | 7.20 | 8.01 | 102. | 0.39 | 109. | 0.93 | -0.19 |
| 53449 | Sed Cd-25 | 38.5 | --- | 2.09 | 1.98 | 2.26 | 32.7 | 0.11 | 22.7 | 0.32 | -1.41 |
| 53450 | Sed Cd-30 | 36.7 | --- | 1.73 | 6.92 | 6.22 | 105. | 0.31 | 83.8 | 1.29 | 0.50 |
| 53451 | Sed Cd-33 | 37.0 | --- | 1.82 | 3.41 | 6.91 | 23.0 | 0.17 | 5.62 | 0.30 | -1.27 |
| 54012 | SED-2 | 46.3 | --- | 1.85 | 10.2 | 4.05 | 112. | 0.38 | 56.6 | 1.20 | 0.37 |
| 54013 | SED-4 | 21.8 | --- | 0.20 | 1.12 | 2.50 | 4.1 | < 0.023 | 2.20 | 0.68 | - 0.063 |
| 54014 | SED-10 | 29.9 | --- | 0.43 | 2.83 | 3.34 | 8.8 | ***0.038*** | 3.93 | 0.59 | -0.18 |
| 54015 | SED-13 | 32.2 | --- | 0.63 | 9.68 | 3.38 | 26.8 | 0.11 | 22.8 | 1.15 | 0.10 |
| 54016 | SED-14 | 39.1 | --- | 0.67 | 8.67 | 3.18 | 38.8 | 0.15 | 28.6 | 1.38 | 0.25 |
| 54017 | SED-15 | 35.8 | --- | 0.38 | 5.55 | 1.27 | 12.2 | 0.077 | 15.6 | 0.99 | - 0.004 |
| 54018 | SED-16 | 27.0 | --- | < 0.01 | 1.20 | 1.21 | 2.4 | 0.05 | 4.63 | nd[c] | 0.10 |
| 54019 | SED-17 | 36.0 | --- | 0.40 | 9.28 | 2.12 | 32.6 | 0.14 | 23.1 | 1.98 | 0.39 |
| 54020 | SED-20 | 25.0 | --- | 0.32 | 4.90 | 1.58 | 13.5 | 0.078 | 11.7 | 1.13 | 0.043 |
| 54021 | SED-22 | 22.7 | --- | 0.49 | 1.38 | 2.51 | 4.9 | ***0.030*** | 2.56 | 0.31 | -0.34 |
| 54022 | SED-23 | 36.3 | --- | 1.25 | 5.10 | 1.65 | 26.0 | ***0.085*** | 16.3 | 0.47 | -0.67 |
| 54023 | SED-24 | 22.6 | --- | 0.30 | 1.38 | 1.69 | 13.7 | ***0.050*** | 3.45 | 0.91 | - 0.028 |
| 54024 | SED-26 | 21.8 | --- | 0.34 | 1.12 | 2.67 | 4.4 | < 0.023 | 2.36 | 0.42 | -0.20 |
| 54025 | SED-27 | 33.7 | --- | 0.55 | 6.40 | 2.48 | 17.6 | 0.093 | 15.5 | 0.88 | - 0.067 |
| 54026 | SED-28 | 23.6 | --- | 0.52 | 3.55 | 2.17 | 19.2 | 0.10 | 4.89 | 0.79 | -0.11 |
| 54027 | SED-29 | 24.1 | --- | 0.55 | 1.53 | 2.22 | 6.3 | ***0.039*** | 3.63 | 0.32 | -0.37 |
| 54028 | SED-33 | 40.3 | --- | 1.19 | 5.35 | 7.03 | 28.2 | 0.22 | 7.26 | 0.57 | -0.52 |

## Table 1. Percent moisture, loss on ignition, acid volatile sulfide (µmol/g dry wgt), and simultaneously extracted metals (µg/g dry wgt) in Anniston sediments.

(***bold and italicized*** values are less than the method quantitation limit and have high uncertainty)

| CERC # | Submitter ID | % Moisture | % LOI | AVS | SEM Cu | SEM Ni | SEM Zn | SEM Cd | SEM Pb | Σ / AVS[a] | Σ - AVS[b] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 54195 | ERDC-2 | 46.4 | --- | 1.86 | 13.0 | 3.36 | 114. | 0.36 | 56.1 | 1.22 | 0.42 |
| 54196 | ERDC-4 | 22.5 | --- | 0.20 | 1.35 | 2.37 | 4.0 | < 0.023 | 2.27 | 0.67 | - 0.066 |
| 54197 | ERDC-10 | 27.8 | --- | 0.65 | 2.76 | 3.39 | 7.3 | ***0.037*** | 3.95 | 0.36 | -0.41 |
| 54198 | ERDC-13 | 31.6 | --- | 0.59 | 9.36 | 2.60 | 25.1 | 0.15 | 20.5 | 1.15 | 0.088 |
| 54199 | ERDC-14 | 37.6 | --- | 0.88 | 7.91 | 3.03 | 37.4 | 0.17 | 28.9 | 1.02 | 0.014 |
| 54200 | ERDC-15 | 36.0 | --- | 0.36 | 4.68 | 1.45 | 11.1 | ***0.073*** | 15.0 | 0.95 | - 0.020 |
| 54201 | ERDC-16 | 28.3 | --- | < 0.01 | 0.91 | 0.45 | 2.0 | ***0.046*** | 4.25 | nd[c] | 0.074 |
| 54202 | ERDC-17 | 33.2 | --- | 0.55 | 9.00 | 4.53 | 33.1 | 0.14 | 23.8 | 1.54 | 0.29 |
| 54203 | ERDC-22 | 23.8 | --- | 0.46 | 1.63 | 6.66 | 4.9 | ***0.032*** | 2.76 | 0.50 | -0.23 |
| 54204 | ERDC-23 | 35.9 | --- | 1.32 | 6.76 | 5.44 | 26.7 | 0.10 | 16.7 | 0.52 | -0.63 |
| 54205 | ERDC-24 | 20.7 | --- | 0.36 | 2.11 | 5.30 | 12.2 | ***0.048*** | 3.25 | 0.91 | - 0.032 |
| 54206 | ERDC-26 | 19.2 | --- | 0.36 | 1.20 | 4.58 | 4.6 | < 0.023 | 2.46 | 0.50 | -0.18 |
| 54207 | ERDC-27 | 31.1 | --- | 0.34 | 6.66 | 2.97 | 17.1 | ***0.073*** | 14.9 | 1.46 | 0.15 |
| 54208 | ERDC-28 | 21.7 | --- | 0.89 | 3.06 | 3.45 | 20.3 | 0.087 | 9.60 | 0.52 | -0.42 |
| 54209 | ERDC-29 | 24.4 | --- | 0.56 | 1.72 | 5.28 | 5.9 | ***0.025*** | 3.21 | 0.40 | -0.33 |
| 54210 | ERDC-33 | 39.7 | --- | 1.29 | 4.86 | 6.61 | 26.0 | 0.22 | 6.81 | 0.48 | -0.67 |

[a] Σ / AVS = Σ[Cu,Ni,Zn,Cd,Pb] µmol/g ÷AVS µmol/g.

[b] Σ - AVS = Σ[Cu,Ni,Zn,Cd,Pb] µmol/g - AVS µmol/g.

[c] ratio not determined (not meaningful because AVS was not-detected)

**Table 2. Concentrations of elements in a continuing calibration blank (CCB) and independent calibration verification standard (ICVS) ran every 10 samples during sediment SEM sample runs for Cu, Ni, Zn, Cd, and Pb. Results expressed as ng/mL.**

| BID[a] | Ele. | CCB[b] | ICVS | % Rec (ICVS)[c] | BID[a] | Ele. | CCB[b] | ICVS | % Rec (ICVS)[c] |
|---|---|---|---|---|---|---|---|---|---|
| 12/20/10 | Cu | 0.00213 | 14.0 | 93. | 12/20/10 | Cu | 0.00053 | 13.5 | 90. |
| 12/13/10 | Ni | 0.00050 | 14.1 | 94. | 12/13/10 | Ni | -0.00045 | 13.8 | 92. |
| Run #1 | Zn | -0.00172 | 196. | 98. | Run #6 | Zn | 0.00179 | 192. | 96. |
| | Cd | 0.00071 | 3.94 | 99. | | Cd | -0.00033 | 3.78 | 94. |
| | Pb | 0.00208 | 13.9 | 93. | | Pb | 0.00029 | 13.7 | 91. |
| 12/20/10 | Cu | -0.00008 | 13.7 | 91. | 12/20/10 | Cu | -0.00084 | 13.6 | 91. |
| 12/13/10 | Ni | -0.00062 | 13.9 | 92. | 12/13/10 | Ni | -0.00078 | 13.8 | 92. |
| Run #2 | Zn | -0.00251 | 193. | 96. | Run #7 | Zn | -0.00697 | 192. | 96. |
| | Cd | 0.00074 | 3.91 | 98. | | Cd | -0.00007 | 3.81 | 95. |
| | Pb | -0.00005 | 13.9 | 93. | | Pb | -0.00076 | 13.7 | 91. |
| 12/20/10 | Cu | -0.00033 | 13.7 | 91. | 12/20/10 | Cu | -0.00058 | 13.6 | 91. |
| 12/13/10 | Ni | -0.00028 | 13.8 | 92. | 12/13/10 | Ni | 0.00043 | 13.9 | 93. |
| Run #3 | Zn | -0.00627 | 191. | 95. | Run #8 | Zn | -0.00382 | 189. | 94. |
| | Cd | 0.00036 | 3.89 | 97. | | Cd | -0.00018 | 3.81 | 95. |
| | Pb | 0.00040 | 13.9 | 93. | | Pb | -0.00032 | 13.8 | 92. |
| 12/20/10 | Cu | 0.00130 | 13.7 | 91. | | | | | |
| 12/13/10 | Ni | 0.00029 | 13.9 | 92. | | | | | |
| Run #4 | Zn | -0.00318 | 193. | 96. | | | | | |
| | Cd | 0.00023 | 3.85 | 96. | | | | | |
| | Pb | 0.00066 | 13.9 | 92. | | | | | |
| 12/20/10 | Cu | -0.00085 | 13.7 | 91. | | | | | |
| 12/13/10 | Ni | -0.00042 | 13.8 | 92. | | | | | |
| Run #5 | Zn | -0.00307 | 191. | 95. | | | | | |
| | Cd | -0.00033 | 3.79 | 95. | | | | | |
| | Pb | -0.00121 | 13.6 | 91. | | | | | |

[a]BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."

[b]acceptance criteria for CCB is +/- 3 X IDL for each element.

[c]acceptance criteria for ICVS = +/- 10% (90% - 110%); ICVS = 200ppb for Zn, 15ppb for Co, Ni, Pb; 4ppb for Cd.

**Table 3. Concentrations of elements in a continuing calibration blank (CCB) and independent calibration verification standard (ICVS) ran every 10 samples during sediment SEM sample runs for Cu, Ni, Zn, Cd, and Pb. Results expressed as ng/mL.**

| BID[a] | Ele. | CCB[b] | ICVS | % Rec (ICVS)[c] | BID[a] | Ele. | CCB[b] | ICVS | % Rec (ICVS)[c] |
|---|---|---|---|---|---|---|---|---|---|
| 02/22/11 | Cu | 0.00339 | 14.7 | 98. | 02/22/11 | Cu | 0.00037 | 15.2 | 101. |
| 03/01/11 | Ni | 0.00109 | 14.7 | 98. | 03/01/11 | Ni | -0.00124 | 15.2 | 101. |
| Run #1 | Zn | 0.00394 | 196. | 98. | Run #6 | Zn | -0.02973 | 201. | 101. |
| | Cd | -0.00042 | 4.08 | 102. | | Cd | -0.00001 | 4.18 | 104. |
| | Pb | 0.00194 | 14.9 | 100. | | Pb | 0.00185 | 15.1 | 101. |
| 02/22/11 | Cu | 0.00068 | 14.7 | 98. | 02/22/11 | Cu | -0.00097 | 15.0 | 100. |
| 03/01/11 | Ni | 0.00014 | 14.8 | 98. | 03/01/11 | Ni | -0.00240 | 15.1 | 101. |
| Run #2 | Zn | 0.00135 | 196. | 98. | Run #7 | Zn | -0.03235 | 199. | 99. |
| | Cd | -0.00023 | 4.07 | 102. | | Cd | -0.00034 | 4.20 | 105. |
| | Pb | 0.00026 | 15.0 | 100. | | Pb | -0.00025 | 15.4 | 102. |
| 02/22/11 | Cu | 0.00050 | 15.0 | 100. | 02/22/11 | Cu | 0.00313 | 15.2 | 101. |
| 03/01/11 | Ni | -0.00014 | 15.2 | 101. | 03/01/11 | Ni | 0.00228 | 15.2 | 101. |
| Run #3 | Zn | 0.00303 | 201. | 100. | Run #8 | Zn | -0.00232 | 200. | 100. |
| | Cd | -0.00105 | 4.19 | 105. | | Cd | 0.00011 | 4.25 | 106. |
| | Pb | -0.00038 | 15.2 | 101. | | Pb | 0.00386 | 15.3 | 102. |
| 02/22/11 | Cu | 0.00161 | 15.1 | 100. | | | | | |
| 03/01/11 | Ni | 0.00029 | 15.1 | 101. | | | | | |
| Run #4 | Zn | 0.00229 | 201. | 100. | | | | | |
| | Cd | -0.00034 | 4.19 | 105. | | | | | |
| | Pb | 0.00025 | 15.1 | 101. | | | | | |
| 02/22/11 | Cu | -0.00053 | 15.2 | 101. | | | | | |
| 03/01/11 | Ni | -0.00136 | 15.3 | 102. | | | | | |
| Run #5 | Zn | -0.02841 | 202. | 101. | | | | | |
| | Cd | -0.00046 | 4.18 | 105. | | | | | |
| | Pb | -0.00055 | 15.3 | 102. | | | | | |

[a]BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sampleas a member of the group or "block."

[b]acceptance criteria for CCB is +/- 3 X IDL for each element.

[c]acceptance criteria for ICVS = +/- 10% (90% - 110%); ICVS = 200ppb for Zn, 15ppb for Co,Ni,Pb; 4ppb for Cd.

## Table 4. Performance of a standardized $Na_2S$ used for instrument calibration verification during AVS determination of sediments.

| BID[a] | Ele. | Run Date | Reference Solution | Actual Conc | Meas Conc 1 | Meas Conc 2 | % Error 1 | % Error 2 | ISOP[b] | Oper Init. |
|---|---|---|---|---|---|---|---|---|---|---|
| 12/13/10 | AVS | 12/16/10 | $Na_2S$ | 21 | 21.3 | 19.2 | 1.43 | -8.57 | P.197 | VDM |
| 12/20/10 | AVS | 12/22/10 | $Na_2S$ | 21 | 20.9 | 20.4 | -0.48 | -2.86 | P.197 | VDM |
| 02/22/11 | AVS | 02/28/11 | $Na_2S$ | 41.2 | 40.2 | 39.6 | -2.43 | -3.88 | P.197 | VDM |
| 03/01/11 | AVS | 03/03/11 | $Na_2S$ | 20.6 | 21.1 | 21.1 | 2.43 | 2.43 | P.197 | VDM |

[a]BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."

[b]ISOP = instrumental standard operating procedure.

## Table 5. Recoveries of elements from reference solutions used as laboratory control samples.

| BID | Analysis Date | Reference Material | Element | Actual Conc. (ng/mL) | Mean Meas. Conc. | Units | % Rec[a] | ISOP | Oper. Init. |
|---|---|---|---|---|---|---|---|---|---|
| 12/13/10 | 03/04/11 | NIST 1643e[b] | Cu | 22.76 +/- 0.31 | 20.3 | ng/mL | 90. | P.241 | MJW/TWM |
| & | 03/04/11 | NIST 1643e[b] | Ni | 62.41 +/- 0.69 | 57.7 | ng/mL | 93. | P.241 | MJW/TWM |
| 12/20/10 | 03/04/11 | Spex ICS -1[c] | Zn | 200 +/- 20 | 195. | ng/mL | 100. | P.241 | MJW/TWM |
| | 03/04/11 | NIST 1643e[b] | Cd | 6.568 +/- 0.073 | 5.93 | ng/mL | 91. | P.241 | MJW/TWM |
| | 03/04/11 | NIST 1640a[d] | Pb | 12.101 +/- 0.05 | 11.3 | ng/mL | 94. | P.241 | MJW/TWM |
| 02/22/11 | 03/04/11 | NIST 1643e[b] | Cu | 22.76 +/- 0.31 | 22.1 | ng/mL | 98. | P.241 | MJW/TWM |
| & | 03/04/11 | NIST 1643e[b] | Ni | 62.41 +/- 0.69 | 62.1 | ng/mL | 100. | P.241 | MJW/TWM |
| 03/01/11 | 03/04/11 | Spex ICS -1[c] | Zn | 200 +/- 20 | 196. | ng/mL | 100. | P.241 | MJW/TWM |
| | 03/04/11 | NIST 1643e[b] | Cd | 6.568 +/- 0.073 | 6.35 | ng/mL | 98. | P.241 | MJW/TWM |
| | 03/04/11 | NIST 1640a[d] | Pb | 12.101 +/- 0.05 | 12.2 | ng/mL | 100. | P.241 | MJW/TWM |

[a]recovery within certified range is considered as 100%, otherwise calculation of recovery is performed relative to upper or lower limit.

[b]NIST 1643e = National Institute of Standards and Technology Standard Reference Material Trace Elements in Water 1643e. Concentration results expressed as ng/mL. Solution used as laboratory control sample.

[c]Spex PPT = Spex Claritas PPT CLZN2-2Y; concentration results in ng/mL. Solution used as laboratory control sample.

[d]NIST 1640a = National Institute of Standards and Technology Standard Reference Material Trace Elements in Natural Water 1640a. Concentration results expressed as ng/mL. Solution used as laboratory control sample.

## Table 6. Measured concentrations of sulfide in 1N HCl extracted sediment reference materials.

| BID[a] | Ele. | QC # | Meas. Conc. | Reference Material | Matrix | Upper Limit | Lower Limit | % Rec[b] | Prep SOP | Prep Init. | ISOP[c] | Oper. Init. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/13/10 | AVS | 61 | 211. | NIST 1645[d] | river sediment | 240 | 160 | 100. | P.197 | WGB | P.197 | VDM |
| 12/20/10 | AVS | 61 | 222. | NIST 1645[d] | river sediment | 240 | 160 | 100. | P.197 | WGB | P.197 | VDM |
| 02/22/11 | AVS | 61 | 154. | NIST 1645[d] | river sediment | 240 | 160 | 96. | P.197 | WGB | P.197 | VDM |
| 03/01/11 | AVS | 61 | 242. | NIST 1645[d] | river sediment | 240 | 160 | 101. | P.197 | WGB | P.197 | VDM |

[a]BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."

[b]%Rec = percent recovery calculated based on upper or lower limit of certified range.

[c]ISOP = instrumental standard operating procedure.

[d]NIST 1645 River Sediment = National Institute of Standards and Technology SRM 1645 River Sediment extracted with 1 N HCl; results in ug/g dry weight.

## Table 7. Concentrations of elements from the 1N HCl extraction and analysis of a sediment reference material.

**NIST 1645 River Sediment[a] Extract (µg/g)**

| Analysis date | Element | Certified Total Conc | Meas. Conc | % Rec[b] |
|---|---|---|---|---|
| 12/13/10 | Cu | 109 +/- 19 | 43.2 | 48. |
| | Ni | 45.8 +/- 2.9 | 21.8 | 51. |
| | Zn | 1720 +/- 170 | 1148. | 74. |
| | Cd | 10.2 +/- 1.5 | 5.72 | 66. |
| | Pb | 714 +/- 28 | 474. | 69. |
| 12/20/10 | Cu | 109 +/- 19 | 43.5 | 48. |
| | Ni | 45.8 +/- 2.9 | 25.7 | 60. |
| | Zn | 1720 +/- 170 | 1218. | 79. |
| | Cd | 10.2 +/- 1.5 | 6.35 | 73. |
| | Pb | 714 +/- 28 | 484. | 71. |
| 02/22/11 | Cu | 109 +/- 19 | 51.3 | 57. |
| | Ni | 45.8 +/- 2.9 | 22.2 | 52. |
| | Zn | 1720 +/- 170 | 1231. | 79. |
| | Cd | 10.2 +/- 1.5 | 6.67 | 77. |
| | Pb | 714 +/- 28 | 523. | 76. |
| 03/01/11 | Cu | 109 +/- 19 | 51.8 | 58. |
| | Ni | 45.8 +/- 2.9 | 28.4 | 66. |
| | Zn | 1720 +/- 170 | 1330. | 86. |
| | Cd | 10.2 +/- 1.5 | 7.03 | 81. |
| | Pb | 714 +/- 28 | 549. | 80. |

[a]National Institute of Standards and Technology Standard Reference Material 1645: River Sediment.

[b]%Rec = percent recovery calculated based on upper or lower limit of certified total range.

**Table 8. Relative percent difference from the duplicate 1N HCL extraction and analysis of Anniston sediments for SEM.**

| Analysis Date | Ele. | CERC# | Matrix | Dup 1 | Dup 2 | Mean | Units | Diff[a] | RPD[b] | PSOP | Prep. Init. | ISOP[c] | Oper. Init. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 03/04/11 | Cu | 5331 | sediment extract | 9.51 | 9.82 | 9.66 | µg/g | 0.31 | 3.2 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Ni | 5331 | sediment extract | 5.02 | 5.91 | 5.47 | µg/g | 0.89 | 16. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Zn | 5331 | sediment extract | 83.9 | 86.8 | 85.4 | µg/g | 2.92 | 3.4 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Cd | 5331 | sediment extract | 0.27 | 0.26 | 0.27 | µg/g | 0.011 | 4.2 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Pb | 5331 | sediment extract | 70.1 | 71.8 | 70.9 | µg/g | 1.74 | 2.5 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Cu | 53442 | sediment extract | 4.32 | 4.05 | 4.18 | µg/g | 0.28 | 6.6 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Ni | 53442 | sediment extract | 13.8 | 1.87 | 7.85 | µg/g | 12.0 | 152. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Zn | 53442 | sediment extract | 12.6 | 13.0 | 12.8 | µg/g | 0.39 | 3.0 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Cd | 53442 | sediment extract | 0.046 | 0.065 | 0.056 | µg/g | 0.020 | 35. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Pb | 53442 | sediment extract | 10.4 | 11.0 | 10.7 | µg/g | 0.63 | 5.9 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Cu | 54024 | sediment extract | 1.1 | 1.1 | 1.1 | µg/g | 0.0 | 1.2 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Ni | 54024 | sediment extract | 2.67 | 3.04 | 2.86 | µg/g | 0.37 | 13. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Zn | 54024 | sediment extract | 4.4 | 4.8 | 4.6 | µg/g | 0.37 | 8.0 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Cd | 54024 | sediment extract | 0.016 | 0.019 | 0.017 | µg/g | 0.003 | 15. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Pb | 54024 | sediment extract | 2.36 | 2.71 | 2.54 | µg/g | 0.35 | 14. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Cu | 54201 | sediment extract | 0.9 | 0.9 | 0.9 | µg/g | 0.0 | 1.7 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Ni | 54201 | sediment extract | 0.45 | 1.13 | 0.79 | µg/g | 0.68 | 86. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Zn | 54201 | sediment extract | 2.0 | 2.2 | 2.1 | µg/g | 0.21 | 9.8 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Cd | 54201 | sediment extract | 0.046 | 0.054 | 0.050 | µg/g | 0.007 | 15. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Pb | 54201 | sediment extract | 4.25 | 4.62 | 4.43 | µg/g | 0.37 | 8.2 | P.197 | JWA/VDM | P.241 | MJW/TWM |

[a]Diff = Dup 1 - Dup 2.

[b]RPD = relative percent difference, calculated as Diff/Mean X 100; target criteria +/- 10%

[c]ISOP = standard operating procedure used for instrumental analysis of sample.

**Table 9. Relative percent difference from the duplicate 1N HCL extraction and determination of AVS in sediment.**

| Analysis Date | Ele. | Matrix | Dup 1 | Dup 2 | Mean | Units | Diff[a] | RPD[b] | PSOP | Prep. Init. | ISOP[c] | Oper. Init. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/13/10 | AVS | sediment extract | 0.99 | 1.01 | 1.00 | µmol/g | -0.020 | 2.0 | P.197 | VDM | P.197 | VDM |
| 12/20/10 | AVS | sediment extract | 0.56 | 0.54 | 0.55 | µmol/g | 0.020 | 3.7 | P.197 | VDM | P.197 | VDM |
| 02/22/11 | AVS | sediment extract | 0.34 | 0.39 | 0.36 | µmol/g | -0.049 | 13. | P.197 | VDM | P.197 | VDM |
| 03/01/11 | AVS | sediment extract | <0.01 | <0.01 | <0.01 | µmol/g | -- | -- | P.197 | VDM | P.197 | VDM |

[a]Diff = Dup 1 - Dup 2.

[b]RPD = relative percent difference, calculated as Diff/Mean X 100; acceptance criteria +/- 10%

[c]ISOP = standard operating procedure used for instrumental analysis of sample.

**Table 10. Relative percent difference from the duplicate analysis of sediment extract digestates.**

| Analysis Date | Ele. | Matrix | CERC# | Dup 1 | Dup 2 | Mean | Units | Diff[a] | RPD[b] | PSOP | Prep. Init. | ISOP[c] | Oper. Init. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 03/04/11 | Cu | sediment extract | 53321 | 18.2 | 18.1 | 18.1 | ng/mL | 0.033 | 0.2 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Ni | sediment extract | 53321 | 18.1 | 18.2 | 18.1 | ng/mL | 0.07 | 0.4 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Zn | sediment extract | 53321 | 145. | 146. | 146. | ng/mL | 0.75 | 0.5 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Cd | sediment extract | 53321 | 5.72 | 5.73 | 5.72 | ng/mL | 0.007 | 0.1 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Pb | sediment extract | 53321 | 19.3 | 19.4 | 19.4 | ng/mL | 0.17 | 0.9 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Cu | sediment extract | 53434 | 18.5 | 18.3 | 18.4 | ng/mL | 0.208 | 1.1 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Ni | sediment extract | 53434 | 18.5 | 18.3 | 18.4 | ng/mL | 0.17 | 0.9 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Zn | sediment extract | 53434 | 148. | 147. | 147. | ng/mL | 0.655 | 0.4 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Cd | sediment extract | 53434 | 5.68 | 5.69 | 5.69 | ng/mL | 0.012 | 0.2 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Pb | sediment extract | 53434 | 19.6 | 19.6 | 19.6 | ng/mL | 0.037 | 0.2 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Cu | sediment extract | 53435 | 18.2 | 18.5 | 18.4 | ng/mL | 0.333 | 1.8 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Ni | sediment extract | 53435 | 18.1 | 18.4 | 18.3 | ng/mL | 0.31 | 1.7 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Zn | sediment extract | 53435 | 145. | 147. | 146. | ng/mL | 2.142 | 1.5 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Cd | sediment extract | 53435 | 5.62 | 5.71 | 5.66 | ng/mL | 0.096 | 1.7 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/04/11 | Pb | sediment extract | 53435 | 19.6 | 19.6 | 19.6 | ng/mL | 0.032 | 0.2 | P.197 | JWA/VDM | P.241 | MJW/TWM |

[a]Diff = Dup 1 - Dup 2; sample spiked with mid-range standard prior to analysis.

[b]RPD = relative percent difference, calculated as Diff/Mean X 100; target criteria +/- 10%

[c]ISOP = standard operating procedure used for instrumental analysis of sample.

**Table 11. Relative percent difference from the duplicate analysis of sediment extract digestates.**

| Analysis Date | Ele. | Matrix | CERC# | Dup 1 | Dup 2 | Mean | Units | Diff[a] | RPD[b] | PSOP | Prep. Init. | ISOP[c] | Oper. Init. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 03/07/11 | Cu | sediment extract | 54012 | 20.4 | 20.4 | 20.4 | ng/mL | 0.087 | 0.4 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/07/11 | Ni | sediment extract | 54012 | 20.1 | 20.0 | 20.0 | ng/mL | 0.02 | 0.1 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/07/11 | Zn | sediment extract | 54012 | 157. | 158. | 157. | ng/mL | 0.36 | 0.2 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/07/11 | Cd | sediment extract | 54012 | 6.19 | 6.19 | 6.19 | ng/mL | 0.008 | 0.1 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/07/11 | Pb | sediment extract | 54012 | 23.3 | 23.2 | 23.3 | ng/mL | 0.08 | 0.3 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/07/11 | Cu | sediment extract | 54195 | 20.6 | 20.5 | 20.5 | ng/mL | 0.081 | 0.4 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/07/11 | Ni | sediment extract | 54195 | 20.1 | 20.0 | 20.0 | ng/mL | 0.08 | 0.4 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/07/11 | Zn | sediment extract | 54195 | 157. | 157. | 157. | ng/mL | 0.533 | 0.3 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/07/11 | Cd | sediment extract | 54195 | 6.20 | 6.22 | 6.21 | ng/mL | 0.021 | 0.3 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/07/11 | Pb | sediment extract | 54195 | 23.1 | 23.1 | 23.1 | ng/mL | 0.048 | 0.2 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/07/11 | Cu | sediment extract | 54196 | 19.9 | 20.0 | 20.0 | ng/mL | 0.077 | 0.4 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/07/11 | Ni | sediment extract | 54196 | 20.1 | 20.0 | 20.0 | ng/mL | 0.13 | 0.7 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/07/11 | Zn | sediment extract | 54196 | 152. | 152. | 152. | ng/mL | 0.610 | 0.4 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/07/11 | Cd | sediment extract | 54196 | 6.24 | 6.31 | 6.27 | ng/mL | 0.063 | 1.0 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/07/11 | Pb | sediment extract | 54196 | 20.3 | 20.4 | 20.4 | ng/mL | 0.124 | 0.6 | P.197 | JWA/VDM | P.241 | MJW/TWM |

[a]Diff = Dup 1 - Dup 2; sample spiked with mid-range standard prior to analysis.

[b]RPD = relative percent difference, calculated as Diff/Mean X 100; target criteria +/- 10%

[c]ISOP = standard operating procedure used for instrumental analysis of sample.

## Table 12. Spike recoveries for 1N HCL extracted blanks.

| BID[a] | Ele. | Spike Type | Units | Spk Amt[b] | Vol (mL) or Wgt.(g) | Effec. Conc | Unspiked Conc | Spiked[c] Conc | % REC[d] | PSOP | Prep. Init. | ISOP | Oper. Init. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/13/10 | AVS | SEM Blank | µg/g | 673. | 2.50 | 269. | 0.00 | 230. | 85. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/13/10 | Cu | SEM Blank | µg/g | 200. | 3.65 | 54.8 | 0.24 | 49.1 | 89. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/13/10 | Ni | SEM Blank | µg/g | 40. | 3.65 | 11.0 | 3.21 | 12.0 | 80. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/13/10 | Zn | SEM Blank | µg/g | 400. | 3.65 | 110. | 0.010 | 104. | 95. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/13/10 | Cd | SEM Blank | µg/g | 10.0 | 3.65 | 2.74 | - 0.008 | 2.64 | 97. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/13/10 | Pb | SEM Blank | µg/g | 200. | 3.65 | 54.8 | 0.004 | 49.5 | 90. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | AVS | SEM Blank | µg/g | 673. | 2.50 | 269. | 0.00 | 259. | 96. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Cu | SEM Blank | µg/g | 200. | 3.37 | 59.3 | 0.042 | 52.5 | 88. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Ni | SEM Blank | µg/g | 40. | 3.37 | 11.9 | 0.89 | 10.8 | 84. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Zn | SEM Blank | µg/g | 400. | 3.37 | 119. | 0.088 | 111. | 93. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Cd | SEM Blank | µg/g | 10.0 | 3.37 | 2.97 | - 0.019 | 2.66 | 90. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Pb | SEM Blank | µg/g | 200. | 3.37 | 59.3 | - 0.013 | 53.1 | 89. | P.197 | JWA/VDM | P.241 | MJW/TWM |

[a]BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."

[b]Spk Amt = the absolute µg amount of the spike added to a sample.

[c]Spiked Conc = concentration of the analyte in the sample spike measured by the instrument (spike + unspiked).

[d]%REC = Spiked Conc - Unspiked Conc divided by the Spk Amt. X 100.

## Table 13. Spike recoveries for 1N HCL extracted blanks.

| BID[a] | Ele. | Spike Type | Units | Spk Amt[b] | Vol (mL) or Wgt.(g) | Effec. Conc | Unspiked Conc | Spiked[c] Conc | % REC[d] | PSOP | Prep. Init. | ISOP | Oper. Init. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 02/22/11 | AVS | SEM Blank | µg/g | 660. | 2.50 | 264. | 0.000 | 237. | 90. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | AVS | SEM Blank | µg/g | 660. | 2.50 | 264. | 0.000 | 235. | 89. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Cu | SEM Blank | µg/g | 200. | 3.66 | 54.6 | 0.046 | 56.4 | 103. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Ni | SEM Blank | µg/g | 40. | 3.66 | 10.9 | 2.55 | 11.3 | 80. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Zn | SEM Blank | µg/g | 400. | 3.66 | 109. | 0.42 | 114. | 104. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Cd | SEM Blank | µg/g | 10.0 | 3.66 | 2.73 | 0.005 | 2.86 | 104. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Pb | SEM Blank | µg/g | 200. | 3.66 | 54.6 | 0.002 | 56.4 | 103. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | AVS | SEM Blank | µg/g | 660. | 2.50 | 264. | 0.00 | 268. | 102. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Cu | SEM Blank | µg/g | 200. | 3.73 | 53.6 | 0.011 | 53.3 | 99. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Ni | SEM Blank | µg/g | 40. | 3.73 | 10.7 | 0.60 | 11.5 | 102. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Zn | SEM Blank | µg/g | 400. | 3.73 | 107. | 0.19 | 107. | 100. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Cd | SEM Blank | µg/g | 10.0 | 3.73 | 2.68 | 0.004 | 2.81 | 105. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Pb | SEM Blank | µg/g | 200. | 3.73 | 53.6 | 0.018 | 53.8 | 100. | P.197 | JWA/VDM | P.241 | MJW/TWM |

[a]BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."

[b]Spk Amt = the absolute µg amount of the spike added to a sample.

[c]Spiked Conc = concentration of the analyte in the sample spike measured by the instrument (spike + unspiked).

[d]%REC = Spiked Conc - Unspiked Conc divided by the Spk Amt. X 100.

## Table 14. Percent recoveries of AVS and SEMs in post-extraction spikes.

| BID[a] | Ele. | Spike Type | Units | Spk Amt[b] | Vol. | Effec. Conc | Unspiked Conc | Spiked[c] Conc | % REC[d] | PSOP | Prep. Init. | ISOP | Oper. Init. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/13/10 | AVS | 53324 - Analytical | µmol | 21. | 1.0 | 21. | 4.35 | 24.0 | 94. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | AVS | 53437 - Analytical | µmol | 21. | 1.0 | 21. | 3.39 | 24.7 | 101. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | AVS | 54014 - Analytical | µmol | 21. | 1.0 | 21. | 2.43 | 24.9 | 109. | P.197 | WGB | P.197 | VDM |
| 03/01/11 | AVS | 54203 - Analytical | µmol | 21. | 1.0 | 21. | 1.80 | 25.1 | 113. | P.197 | WGB | P.197 | VDM |
| 12/13/10 | Cu | 53321 - Analytical | ng/mL | 200. | 10. | 20. | 0.26 | 18.1 | 89. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/13/10 | Ni | 53321 - Analytical | ng/mL | 200. | 10. | 20. | 0.13 | 18.1 | 90. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/13/10 | Zn | 53321 - Analytical | ng/mL | 1500. | 10. | 150. | 1.76 | 145. | 95. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/13/10 | Cd | 53321 - Analytical | ng/mL | 60. | 10. | 6. | 0.007 | 5.71 | 95. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/13/10 | Pb | 53321 - Analytical | ng/mL | 200. | 10. | 20. | 1.29 | 19.5 | 91. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Cu | 53434 - Analytical | ng/mL | 200. | 10. | 20. | 0.40 | 18.5 | 91. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Ni | 53434 - Analytical | ng/mL | 200. | 10. | 20. | 0.18 | 18.3 | 91. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Zn | 53434 - Analytical | ng/mL | 1500. | 10. | 150. | 2.03 | 148. | 97. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Cd | 53434 - Analytical | ng/mL | 60. | 10. | 6. | 0.009 | 5.71 | 95. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Pb | 53434 - Analytical | ng/mL | 200. | 10. | 20. | 1.47 | 19.6 | 91. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Cu | 53435 - Analytical | ng/mL | 200. | 10. | 20. | 0.60 | 19.3 | 94. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Ni | 53435 - Analytical | ng/mL | 200. | 10. | 20. | 0.22 | 19.4 | 96. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Zn | 53435 - Analytical | ng/mL | 1500. | 10. | 150. | 2.54 | 154. | 101. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Cd | 53435 - Analytical | ng/mL | 60. | 10. | 6. | 0.013 | 6.00 | 100. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Pb | 53435 - Analytical | ng/mL | 200. | 10. | 20. | 1.41 | 20.5 | 95. | P.197 | JWA/VDM | P.241 | MJW/TWM |

[a]BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."

[b]Spk Amt = the absolute µmol (AVS) or ng (SEM) amount of the spike added to a sample.

[c]Spiked Conc = ng/mL of the analyte in the sample spike measured by the instrument (spike + unspiked).

[d]%REC = Spiked Conc - Unspiked Conc divided by the Spk Amt. X 100.

## Table 15. Percent recoveries of AVS and SEMs in post-extraction spikes.

| BID[a] | Ele. | Spike Type | Units | Spk Amt[b] | Vol. | Effec. Conc | Unspiked Conc | Spiked[c] Conc | % REC[d] | PSOP | Prep. Init. | ISOP | Oper. Init. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 02/22/11 | Cu | 54012 - Analytical | ng/mL | 200. | 10. | 20. | 0.57 | 20.5 | 100. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Ni | 54012 - Analytical | ng/mL | 200. | 10. | 20. | 0.21 | 20.1 | 99. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Zn | 54012 - Analytical | ng/mL | 1500. | 10. | 150. | 5.73 | 159. | 102. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Cd | 54012 - Analytical | ng/mL | 60. | 10. | 6. | 0.022 | 6.21 | 103. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Pb | 54012 - Analytical | ng/mL | 200. | 10. | 20. | 2.93 | 23.2 | 102. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Cu | 54195 - Analytical | ng/mL | 200. | 10. | 20. | 0.67 | 20.5 | 99. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Ni | 54195 - Analytical | ng/mL | 200. | 10. | 20. | 0.18 | 20.1 | 100. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Zn | 54195 - Analytical | ng/mL | 1500. | 10. | 150. | 5.77 | 158. | 102. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Cd | 54195 - Analytical | ng/mL | 60. | 10. | 6. | 0.019 | 6.29 | 105. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Pb | 54195 - Analytical | ng/mL | 200. | 10. | 20. | 2.89 | 23.2 | 101. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Cu | 54196 - Analytical | ng/mL | 200. | 10. | 20. | 0.12 | 20.0 | 99. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Ni | 54196 - Analytical | ng/mL | 200. | 10. | 20. | 0.19 | 20.1 | 99. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Zn | 54196 - Analytical | ng/mL | 1500. | 10. | 150. | 0.36 | 153. | 102. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Cd | 54196 - Analytical | ng/mL | 60. | 10. | 6. | 0.006 | 6.29 | 105. | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Pb | 54196 - Analytical | ng/mL | 200. | 10. | 20. | 0.19 | 20.3 | 101. | P.197 | JWA/VDM | P.241 | MJW/TWM |

[a]BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."

[b]Spk Amt = the absolute µmol (AVS) or ng (SEM) amount of the spike added to a sample.

[c]Spiked Conc = ng/mL of the analyte in the sample spike measured by the instrument (spike + unspiked).

[d]%REC = Spiked Conc - Unspiked Conc divided by the Spk Amt. X 100.

## Table 16. Interference checks for elements using dilution percent difference.

| BID[a] | Run Date | Sample Used | Water Type | Element | Undiluted Sample | Diluted Sample[b] | Units | DPD[c] |
|---|---|---|---|---|---|---|---|---|
| 12/13/10 | 03/04/11 | 53321 | sediment extract | Cu | 18.0 | 3.65 | ng/mL | 1.1 |
| 12/13/10 | 03/04/11 | 53321 | sediment extract | Ni | 18.1 | 3.63 | ng/mL | 0.3 |
| 12/13/10 | 03/04/11 | 53321 | sediment extract | Zn | 145. | 29.1 | ng/mL | 0.2 |
| 12/13/10 | 03/04/11 | 53321 | sediment extract | Cd | 5.73 | 1.14 | ng/mL | 0.9 |
| 12/13/10 | 03/04/11 | 53321 | sediment extract | Pb | 19.3 | 3.89 | ng/mL | 0.6 |
| 12/20/10 | 03/04/11 | 53434 | sediment extract | Cu | 18.3 | 3.75 | ng/mL | 2.6 |
| 12/20/10 | 03/04/11 | 53434 | sediment extract | Ni | 18.4 | 3.67 | ng/mL | 0.2 |
| 12/20/10 | 03/04/11 | 53434 | sediment extract | Zn | 147. | 29.7 | ng/mL | 1.2 |
| 12/20/10 | 03/04/11 | 53434 | sediment extract | Cd | 5.68 | 1.13 | ng/mL | 0.1 |
| 12/20/10 | 03/04/11 | 53434 | sediment extract | Pb | 19.8 | 3.93 | ng/mL | 0.7 |
| 12/20/10 | 03/04/11 | 53435 | sediment extract | Cu | 18.7 | 3.82 | ng/mL | 2.2 |
| 12/20/10 | 03/04/11 | 53435 | sediment extract | Ni | 18.7 | 3.77 | ng/mL | 0.8 |
| 12/20/10 | 03/04/11 | 53435 | sediment extract | Zn | 148. | 30.0 | ng/mL | 1.6 |
| 12/20/10 | 03/04/11 | 53435 | sediment extract | Cd | 5.79 | 1.16 | ng/mL | 0.0 |
| 12/20/10 | 03/04/11 | 53435 | sediment extract | Pb | 19.7 | 3.95 | ng/mL | 0.6 |

[a]BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."

[b]dilution factor = 5X.

[c]DPD = dilution % difference; acceptance criteria = +/- 10%; concentrations exceeding +/- 10%. indicative of suspect interferent.

## Table 17. Interference checks for elements using dilution percent difference.

| BID[a] | Run Date | Sample Used | Water Type | Element | Undiluted Sample | Diluted Sample[b] | Units | DPD[c] |
|---|---|---|---|---|---|---|---|---|
| 02/22/11 | 03/07/11 | 54012 | sediment extract | Cu | 20.5 | 4.10 | ng/mL | 0.0 |
| 02/22/11 | 03/07/11 | 54012 | sediment extract | Ni | 20.3 | 4.07 | ng/mL | 0.3 |
| 02/22/11 | 03/07/11 | 54012 | sediment extract | Zn | 158. | 31.6 | ng/mL | 0.3 |
| 02/22/11 | 03/07/11 | 54012 | sediment extract | Cd | 6.22 | 1.26 | ng/mL | 1.2 |
| 02/22/11 | 03/07/11 | 54012 | sediment extract | Pb | 23.3 | 4.62 | ng/mL | 1.1 |
| 02/22/11 | 03/07/11 | 54195 | sediment extract | Cu | 20.5 | 4.12 | ng/mL | 0.4 |
| 02/22/11 | 03/07/11 | 54195 | sediment extract | Ni | 20.0 | 4.02 | ng/mL | 0.6 |
| 02/22/11 | 03/07/11 | 54195 | sediment extract | Zn | 157. | 32.0 | ng/mL | 1.6 |
| 02/22/11 | 03/07/11 | 54195 | sediment extract | Cd | 6.26 | 1.25 | ng/mL | 0.1 |
| 02/22/11 | 03/07/11 | 54195 | sediment extract | Pb | 23.1 | 4.65 | ng/mL | 0.6 |
| 02/22/11 | 03/07/11 | 54196 | sediment extract | Cu | 20.1 | 4.05 | ng/mL | 0.9 |
| 02/22/11 | 03/07/11 | 54196 | sediment extract | Ni | 19.9 | 4.05 | ng/mL | 1.8 |
| 02/22/11 | 03/07/11 | 54196 | sediment extract | Zn | 152. | 30.7 | ng/mL | 1.3 |
| 02/22/11 | 03/07/11 | 54196 | sediment extract | Cd | 6.29 | 1.25 | ng/mL | 0.2 |
| 02/22/11 | 03/07/11 | 54196 | sediment extract | Pb | 20.5 | 4.13 | ng/mL | 0.8 |

[a]BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."

[b]dilution factor = 5X.

[c]DPD = dilution % difference; acceptance criteria = +/- 10%; concentrations exceeding +/- 10%. indicative of suspect interferent.

## Table 18. Recovery of Cu, Ni, Zn, Cd, and Pb from an interference check solution[a].

| BID | Run Date | Element | Conc (ppb) actual | Conc (ppb) measured | Dilution Factor[b] | % Rec.[c] |
|---|---|---|---|---|---|---|
| 12/13/10 | 03/04/11 | Cu | 100. | 8.57 | 10 | 86. |
| & | 03/04/11 | Ni | 200. | 17.3 | | 86. |
| 12/20/10 | 03/04/11 | Zn[c] | 10.[c] | 85.6 | --- | 86. |
| | 03/04/11 | Cd | 50. | 4.80 | 10 | 96. |
| | 03/04/11 | Pb[c] | 10.[c] | 9.80 | --- | 98. |
| 02/22/11 | 03/07/11 | Cu | 100. | 9.62 | 10 | 96. |
| & | 03/07/11 | Ni | 200. | 19.0 | | 95. |
| 03/01/11 | 03/07/11 | Zn[c] | 10.[c] | 90.2 | --- | 90. |
| | 03/07/11 | Cd | 50. | 5.06 | 10 | 101. |
| | 03/07/11 | Pb[c] | 10.[c] | 10.6 | --- | 106. |

[a]High Purity ICP-MS Solution AB in 2% nitric acid, Charleston, SC.; CAT # ICP-MS-ICS.

[b]interference check solution diluted 5X.

[c]suggested acceptance tolerance 80% - 120%.

[c]Zn conc adjusted to 100ppb and Pb 10ppb in 10X diluted solution; Indigenous Zn and Pb concentrations too low in 10X diluted AB solution for an accurate interference check.

## Table 19. Acid volatile sulfide blank equivalent concentrations (BEC).

| BID[a] | Ele. | Matrix | Soln Units | Blk Conc 1 | Blk Conc 2 | Blk Conc 3 | Dil Vol (mL) | Mean Conc | Wgt (g)[b] | BEC (ug/g) | BEC SD | PSOP | Prep Init. | ISOP[c] | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/13/10 | AVS | sediment extract | µmol/g | 0.00008 | 0.00000 | 0.00000 | 1.0 | 0.00003 | 2.5 | 0.00001 | 0.00002 | P.197 | WGB | P.197 | VDM |
| 12/20/10 | AVS | sediment extract | µmol/g | 0.00015 | 0.00013 | 0.00017 | 1.0 | 0.0002 | 2.5 | 0.00006 | 0.00001 | P.197 | WGB | P.197 | VDM |
| 02/22/11 | AVS | sediment extract | µmol/g | 0.00003 | --- | --- | 1.0 | 0.000009 | 2.5 | 0.000004 | --- | P.197 | WGB | P.197 | VDM |
| 03/01/11 | AVS | sediment extract | µmol/g | 0.00001 | --- | --- | 1.0 | 0.000003 | 2.5 | 0.000001 | --- | P.197 | WGB | P.197 | VDM |

[a]BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."

[b]dry weight (g) for samples used to compute BEC.

[c]ISOP = standard operating procedure used for instrumental analysis of sample.

## Table 20. Elemental blank equivalent concentrations (BECs) for the sediment extraction procedure.

| BID[a] | Ele. | Matrix | Soln Units | Blk Conc | Dil Vol (mL) | Wgt (g)[b] | Mean BEC µg/g | PSOP | Prep Init. | ISOP[c] | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/13/10 | Cu | Extraction Blk | ng/mL | 0.21 | 5000. | 3.65 | 0.29 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/13/10 | Ni | Extraction Blk | ng/mL | 2.36 | 5000. | 3.65 | 3.23 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/13/10 | Zn | Extraction Blk | ng/mL | 0.10 | 5000. | 3.65 | 0.13 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/13/10 | Cd | Extraction Blk | ng/mL | 0.008 | 5000. | 3.65 | 0.012 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/13/10 | Pb | Extraction Blk | ng/mL | 0.011 | 5000. | 3.65 | 0.014 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Cu | Extraction Blk | ng/mL | 0.061 | 5000. | 3.37 | 0.090 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Ni | Extraction Blk | ng/mL | 0.62 | 5000. | 3.37 | 0.92 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Zn | Extraction Blk | ng/mL | 0.15 | 5000. | 3.37 | 0.22 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Cd | Extraction Blk | ng/mL | 0.001 | 5000. | 3.37 | 0.002 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Pb | Extraction Blk | ng/mL | - 0.001 | 5000. | 3.37 | - 0.001 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Cu | Extraction Blk | ng/mL | 0.033 | 5000. | 3.66 | 0.045 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Ni | Extraction Blk | ng/mL | 1.87 | 5000. | 3.66 | 2.55 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Zn | Extraction Blk | ng/mL | 1.01 | 5000. | 3.66 | 1.37 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Cd | Extraction Blk | ng/mL | 0.001 | 5000. | 3.66 | 0.001 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Pb | Extraction Blk | ng/mL | 0.001 | 5000. | 3.66 | 0.001 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Cu | Extraction Blk | ng/mL | 0.008 | 5000. | 3.73 | 0.011 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Ni | Extraction Blk | ng/mL | 0.45 | 5000. | 3.73 | 0.60 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Zn | Extraction Blk | ng/mL | 0.84 | 5000. | 3.73 | 1.12 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Cd | Extraction Blk | ng/mL | 0.000 | 5000. | 3.73 | 0.000 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Pb | Extraction Blk | ng/mL | 0.012 | 5000. | 3.73 | 0.017 | P.197 | JWA/VDM | P.241 | MJW/TWM |

[a]BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."
[b]dry sediment weight used to compute BECs.
[c]ISOP = standard operating procedure used for instrumental analysis of sample.

**Table 21. Elemental blank equivalent concentrations (BECs) for reagent blanks.**

| BID[a] | Ele. | Matrix | Soln Units | Blk Conc 1 | Blk Conc 2 | Blk Conc 3 | Dil Vol (mL) | Mean (µg) | Wgt (g)[b] | Mean BEC µg/g | BEC SD | PSOP | Prep Init. | ISOP[c] | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/13/10 | Cu | reagent blk | ng/mL | 0.044 | 0.038 | 0.016 | 5000. | 0.16 | 3.51 | 0.047 | 0.021 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| & | Ni | reagent blk | ng/mL | 0.024 | 0.023 | 0.010 | 5000. | 0.096 | 3.51 | 0.027 | 0.011 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 12/20/10 | Zn | reagent blk | ng/mL | 0.073 | 0.090 | 0.101 | 5000. | 0.44 | 3.51 | 0.13 | 0.021 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| | Cd | reagent blk | ng/mL | 0.014 | 0.015 | 0.014 | 5000. | 0.071 | 3.51 | 0.020 | 0.001 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| | Pb | reagent blk | ng/mL | 0.009 | 0.006 | 0.008 | 5000. | 0.039 | 3.51 | 0.011 | 0.002 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 02/22/11 | Cu | reagent blk | ng/mL | 0.01 | - 0.002 | - 0.004 | 5000. | - 0.001 | 3.70 | 0.00 | 0.006 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| & | Ni | reagent blk | ng/mL | 0.01 | 0.001 | - 0.005 | 5000. | 0.011 | 3.70 | 0.00 | 0.010 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| 03/01/11 | Zn | reagent blk | ng/mL | 0.80 | 0.61 | 0.69 | 5000. | 3.489 | 3.70 | 0.94 | 0.13 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| | Cd | reagent blk | ng/mL | - 0.004 | 0.000 | - 0.005 | 5000. | - 0.015 | 3.70 | - 0.004 | 0.004 | P.197 | JWA/VDM | P.241 | MJW/TWM |
| | Pb | reagent blk | ng/mL | 0.001 | - 0.002 | - 0.001 | 5000. | - 0.003 | 3.70 | - 0.001 | 0.001 | P.197 | JWA/VDM | P.241 | MJW/TWM |

[a]BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."
[b]dry sediment weight used to compute BECs.
[c]ISOP = standard operating procedure used for instrumental analysis of sample.

## Table 22. Instrumental and method detection limits for the AVS procedure.

Note: Reporting limit for AVS = 0.01 umol/g

**IDL[a]**

| BID | Run Date | Element | Std Conc | SD 1 | SD 2 | SD 3 | IDL | IDL SOP | Oper Init |
|---|---|---|---|---|---|---|---|---|---|
| 12/13/10 | 08/29/02 | AVS | 0.0084 | 0.0011 | 0.0010 | 0.0008 | 0.003 | C4.103 | VDM |

[a]IDL = instrument detection limit (umol), computed as 3 X mean of standard deviations from analysis of 0 standard.

**MDL[b]**

| BID | Element | Matrix | W/D/L[c] | Sample SD | Blank SD | MDL | PSOP | Prep Init | ISOP | Oper Init | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/13/10 | AVS | sediment extract | D | 0.00 | 0.00005 | 0.0001 | P.197 | JWA/VDM | P.197 | VDM/WGB | µmol/g |
| 12/20/10 | AVS | sediment extract | D | 0.00 | 0.00001 | 0.00002 | P.197 | JWA/VDM | P.197 | VDM/WGB | µmol/g |
| 02/22/11 | AVS | sediment extract | D | 0.00 | 0.00001 | 0.00004 | P.197 | JWA/VDM | P.197 | VDM/WGB | µmol/g |
| 03/01/11 | AVS | sediment extract | D | 0.00 | 0.00004 | 0.0001 | P.197 | JWA/VDM | P.197 | VDM/WGB | µmol/g |

[b]MDL = method detection limit (uM/g), computed as $3 \times (SD_{st}^2 + SD_s^2)^{1/2}$ where Sample SD = standard deviation of low sample and Blank SD = standard deviation of a reagent blank.

[c]D = dry; MDL expressed as µmol/g dry weight.

**Table 23. Instrument detection limits, method detection limits, and method quantitation limits for the sediment SEM analytical runs.**

| BID | Element | Matrix | Std Conc.[a] | $SD_b$ [b] | $SD_{st}$ [c] | IDL[d] | MDL[e] | MQL[f] | Units | ISOP | Oper. Init. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/13/10 | Cu | sediment extract | 5.0 | 0.021 | 0.001 | 0.048 | 0.063 | 0.21 | µg/g | P.241 | MJW/TWM |
| & | Ni | sediment extract | 5.0 | 0.011 | 0.011 | 0.004 | 0.048 | 0.16 | µg/g | P.241 | MJW/TWM |
| 12/20/10 | Zn | sediment extract | 75.0 | 0.021 | 0.036 | 0.87 | 0.12 | 0.40 | µg/g | P.241 | MJW/TWM |
| | Cd | sediment extract | 1.5 | 0.001 | 0.002 | 0.002 | 0.005 | 0.017 | µg/g | P.241 | MJW/TWM |
| | Pb | sediment extract | 5.0 | 0.002 | 0.001 | 0.004 | 0.007 | 0.023 | µg/g | P.241 | MJW/TWM |
| 02/22/11 | Cu | sediment extract | 5.0 | 0.006 | 0.003 | 0.048 | 0.021 | 0.069 | µg/g | P.241 | MJW/TWM |
| & | Ni | sediment extract | 5.0 | 0.010 | 0.006 | 0.004 | 0.036 | 0.12 | µg/g | P.241 | MJW/TWM |
| 03/01/11 | Zn | sediment extract | 75.0 | 0.13 | 0.012 | 0.87 | 0.40 | 1.32 | µg/g | P.241 | MJW/TWM |
| | Cd | sediment extract | 1.5 | 0.004 | 0.007 | 0.002 | 0.023 | 0.076 | µg/g | P.241 | MJW/TWM |
| | Pb | sediment extract | 5.0 | 0.001 | 0.002 | 0.004 | 0.007 | 0.023 | µg/g | P.241 | MJW/TWM |

[a]concentration of low level standard (ppb) used in analysis of MDL.

[b]$SD_b$ = standard deviation from analysis of blanks (n=3) diluted 10X.

[c]$SD_{st}$ = standard deviation from analysis of a low level standard diluted 10X (n=3).

[d]IDL = instrument detection limit (ng/mL), computed as 3 X mean of standard deviations from analysis of 0 standard (reagent blk) 7 consecutive times on 3 non-consecutive days.

[e]MDL = method detection limit (ng/mL), computed as $3 X (SD_b^2 + SD_{st}^2)^{1/2}$ where $SD_b$ = standard deviation of a reagent blank diluted 10X (n = 3) and $SD_{st}$ = standard deviation of a low level standard diluted 10X (n = 3).

[f]MQL = method quantitation limit (ng/mL), computed as 3.3 X the MDL.

| Sediment | | | 1 | 6 | 6 | 7 | 8 | 9 | 11 | 11 | 18 | 18 | 19 | 20 | 25 | 25 | 30 | 30 | 33 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | | | C1 | 2 | C6 | C7 | C8 | C9 | 1 | C11 | 3 | C18 | C19 | C20 | 6 | C25 | 4 | C30 | 5 | C33 |
| | Units | Reporting Limit | | | | | | | | | | | | | | | | | | |
| **PCB Homolog Groups** | | | | | | | | | | | | | | | | | | | | |
| **Total Monochlorobiphenyl** | µg/L | | 21.4 | 118.4 | 95.5 | 53.0 | 64.2 | BDL | 127.5 | 74.6 | 224.0 | 130.8 | 128.7 | BDL | 48.8 | 19.7 | 300.9 | 191.8 | 1.6 | BDL |
| **Total Dichlorobiphenyl** | µg/L | | 14.9 | 21.1 | 19.2 | 8.8 | 18.1 | BDL | 20.9 | 17.1 | 50.3 | 39.9 | 29.9 | 1.8 | 8.0 | 5.9 | 36.8 | 31.4 | 0.2 | BDL |
| **Total Trichlorobiphenyl** | µg/L | | 12.0 | 20.7 | 19.0 | 8.2 | 19.8 | BDL | 21.5 | 17.2 | 38.0 | 29.4 | 26.9 | 3.0 | 8.5 | 6.6 | 34.8 | 29.2 | 0.1 | BDL |
| **Total Tetrachlorobiphenyl** | µg/L | | 2.57 | 2.29 | 1.86 | 1.32 | 2.51 | BDL | 2.70 | 1.94 | 5.55 | 4.05 | 3.33 | 0.49 | 0.84 | 0.71 | 5.10 | 3.83 | BDL | BDL |
| **Total Pentachlorobiphenyl** | µg/L | | 0.29 | 0.43 | 0.34 | 0.21 | 0.45 | BDL | 0.46 | 0.28 | 0.94 | 0.63 | 0.45 | 0.08 | 0.16 | 0.15 | 0.84 | 0.60 | BDL | BDL |
| **Total Hexachlorobiphenyl** | µg/L | | 0.05 | 0.18 | 0.12 | 0.03 | 0.11 | BDL | 0.10 | 0.06 | 0.21 | 0.11 | 0.10 | 0.02 | 0.03 | 0.03 | 0.22 | 0.15 | BDL | BDL |
| **Total Heptachlorobiphenyl** | µg/L | | 0.003 | 0.024 | 0.015 | 0.003 | 0.013 | BDL | 0.011 | 0.004 | 0.021 | 0.010 | 0.010 | 0.002 | 0.003 | 0.002 | 0.025 | 0.012 | BDL | BDL |
| **Total Octachlorobiphenyl** | µg/L | | 0.00021 | 0.00190 | 0.00096 | 0.00009 | 0.00075 | BDL | 0.00099 | 0.00033 | 0.00151 | 0.00052 | 0.00129 | 0.00012 | 0.00016 | 0.00020 | 0.00195 | 0.00103 | BDL | BDL |
| **Total Nonachlorobiphenyl** | µg/L | | 0.00000 | 0.00009 | 0.00004 | 0.00001 | 0.00005 | BDL | 0.00007 | 0.00002 | 0.00016 | 0.00003 | 0.00012 | 0.00000 | BDL | 0.00001 | 0.00014 | 0.00008 | BDL | BDL |
| **Total Homolog PCB** | µg/L | | 51.2 | 163.1 | 136.1 | 71.6 | 105.2 | BDL | 173.2 | 111.1 | 319.0 | 204.9 | 189.5 | 5.4 | 66.3 | 33.1 | 378.6 | 257.0 | 1.9 | BDL |
| **PCB Congener** | | | | | | | | | | | | | | | | | | | | |
| **1** | ng/L | 160 | 20259 | 118377 | 93648 | 52994 | 64195 | BDL | 127540 | 74559 | 213018 | 121818 | 128707 | BDL | 48784 | 19676 | 300889 | 191827 | 1579 | BDL |
| **3** | ng/L | 93 | 1099 | BDL | 1863 | BDL | BDL | BDL | BDL | BDL | 10971 | 9009 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **4** | ng/L | 102 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **5** | ng/L | 48 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **6** | ng/L | 39 | 4489 | 1089 | 964 | 542 | 1354 | BDL | 1524 | 1261 | 4687 | 3605 | 2465 | 124 | 551 | 390 | 2918 | 2418 | BDL | BDL |
| **7** | ng/L | 38 | 472 | 962 | 840 | 130 | 336 | BDL | 332 | 236 | 1229 | 894 | 485 | 14 | 129 | 76 | 986 | 821 | BDL | BDL |
| **8** | ng/L | 38 | 6801 | 8071 | 7283 | 3262 | 7571 | BDL | 6945 | 6014 | 30302 | 24564 | 12406 | 590 | 3154 | 2314 | 12500 | 10871 | 59 | BDL |
| **9** | ng/L | 39 | 184 | 208 | 186 | 179 | 383 | BDL | 562 | 432 | 1012 | 744 | 730 | 37 | 275 | 180 | 668 | 563 | BDL | BDL |
| **10** | ng/L | 65 | 2940 | 10715 | 9823 | 4679 | 8446 | BDL | 11435 | 9150 | 12662 | 9794 | 13736 | 1077 | 3931 | 2972 | 19586 | 16564 | 137 | BDL |
| **12/13** | ng/L | 24 | BDL | 100 | 103 | 46 | BDL | BDL | 74 | BDL | 374 | 286 | 117 | BDL | BDL | BDL | 116 | 129 | BDL | BDL |
| **14** | ng/L | 23 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **17** | ng/L | 25 | 2717 | 3320 | 2990 | 1127 | 4124 | BDL | 3047 | 2609 | 10510 | 8533 | 4599 | 406 | 2239 | 1828 | 5074 | 4352 | BDL | BDL |
| **18** | ng/L | 25 | 2359 | 459 | 419 | 376 | 436 | BDL | 555 | 449 | 1502 | 1213 | 678 | 75 | 160 | 125 | 1377 | 1105 | BDL | BDL |
| **19** | ng/L | 42 | 3824 | 13650 | 12759 | 5099 | 11155 | BDL | 13940 | 11003 | 15974 | 12080 | 16999 | 2084 | 4455 | 3426 | 21612 | 18432 | 96 | BDL |
| **20** | ng/L | 11 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **22** | ng/L | 11 | 45 | BDL | 52 | 34 | 87 | BDL | 51 | 39 | 304 | 219 | 147 | BDL | BDL | BDL | 264 | 185 | BDL | BDL |
| **24** | ng/L | 19 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **25** | ng/L | 9 | 436 | 204 | 167 | 78 | 195 | BDL | 180 | 140 | 616 | 466 | 274 | 32 | 63 | 47 | 338 | 269 | BDL | BDL |
| **26/29** | ng/L | 10 | 456 | 262 | 243 | 185 | 399 | BDL | 432 | 442 | 942 | 727 | 508 | 38 | 127 | 99 | 541 | 447 | BDL | BDL |
| **27** | ng/L | 16 | 405 | 922 | 808 | 516 | 1422 | BDL | 1696 | 1291 | 2271 | 1656 | 1611 | 148 | 515 | 409 | 2614 | 2092 | BDL | BDL |
| **28/31** | ng/L | 9 | 654 | 816 | 671 | 263 | 588 | BDL | 512 | 374 | 1944 | 1411 | 683 | 42 | 191 | 92 | 1132 | 868 | BDL | BDL |
| **32** | ng/L | 16 | 1095 | 973 | 875 | 485 | 1342 | BDL | 1030 | 766 | 3817 | 3008 | 1365 | 130 | 688 | 554 | 1665 | 1317 | BDL | BDL |
| **33** | ng/L | 11 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **34** | ng/L | 9 | 0 | 0 | 0 | 0 | 0 | BDL | 0 | 0 | 0 | 0 | 0 | BDL | 0 | 0 | 0 | 0 | BDL | BDL |
| **35** | ng/L | 6 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **37** | ng/L | 6 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **40** | ng/L | 9 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **41** | ng/L | 9 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **42** | ng/L | 7 | 118 | 29 | BDL | 37 | 52 | BDL | 45 | BDL | 136 | 107 | 67 | 8 | 13 | 13 | 108 | 90 | BDL | BDL |
| **44** | ng/L | 7 | 253 | 60 | 48 | 47 | 55 | BDL | 64 | 45 | 306 | 206 | 105 | 8 | 15 | 13 | 229 | 172 | BDL | BDL |
| **45** | ng/L | 13 | 146 | 240 | 195 | 92 | 297 | BDL | 328 | 235 | 725 | 498 | 221 | 32 | 127 | 111 | 429 | 312 | BDL | BDL |
| **46** | ng/L | 13 | 53 | 29 | 28 | 34 | 63 | BDL | 55 | 39 | 128 | 91 | 81 | BDL | BDL | BDL | 178 | 127 | BDL | BDL |
| **47** | ng/L | 6 | 190 | 222 | 181 | 135 | 315 | BDL | 352 | 257 | 586 | 428 | 488 | 62 | 155 | 110 | 636 | 399 | BDL | BDL |
| **48** | ng/L | 7 | BDL | 37 | 30 | 9 | 15 | BDL | 13 | 6 | 47 | 32 | 10 | BDL | BDL | 3 | 48 | 34 | BDL | BDL |
| **49** | ng/L | 6 | 422 | 171 | 136 | 145 | 262 | BDL | 280 | 192 | 772 | 522 | 334 | 39 | 92 | 77 | 518 | 395 | BDL | BDL |
| **51** | ng/L | 10 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **52** | ng/L | 6 | 678 | 224 | 202 | 201 | 278 | BDL | 293 | 211 | 660 | 498 | 305 | 51 | 97 | 87 | 489 | 398 | BDL | BDL |
| **53** | ng/L | 10 | 342 | 346 | 252 | 279 | 451 | BDL | 486 | 369 | 900 | 706 | 625 | 93 | 134 | 114 | 921 | 754 | BDL | BDL |
| **54** | ng/L | 27 | 178 | 713 | 636 | 168 | 373 | BDL | 473 | 369 | 520 | 433 | 848 | 157 | 95 | 80 | 871 | 673 | BDL | BDL |
| **56** | ng/L | 3 | BDL | 7 | BDL | 6 | 8 | BDL | 6 | 4 | 28 | 20 | 9 | BDL | BDL | BDL | 26 | 20 | BDL | BDL |
| **59** | ng/L | 5 | 10 | 20 | BDL | 8 | 23 | BDL | BDL | BDL | 43 | 32 | 22 | 3 | 7 | 7 | 34 | 26 | BDL | BDL |
| **60** | ng/L | 3 | BDL | 4 | BDL | 3 | 4 | BDL | 4 | 3 | 5 | 4 | 4 | BDL | 2 | 4 | 7 | 7 | BDL | BDL |
| **63** | ng/L | 3 | 7 | 13 | 10 | 8 | 18 | BDL | 22 | 15 | 39 | 25 | 19 | 2 | 6 | 5 | 38 | 27 | BDL | BDL |
| **64** | ng/L | 5 | 91 | 66 | 58 | 49 | 123 | BDL | 106 | 75 | 242 | 176 | BDL | 15 | 49 | 44 | 170 | 129 | BDL | BDL |
| **66** | ng/L | 3 | 4 | 11 | 11 | 23 | 35 | BDL | 27 | 19 | 88 | 61 | 34 | BDL | 7 | 8 | 73 | 53 | BDL | BDL |
| **67** | ng/L | 2.6 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **69** | ng/L | 3.8 | BDL | 13.6 | 10.4 | 4.3 | 15.4 | BDL | 19.1 | 12.9 | 27.6 | 18.0 | 15.0 | 2.8 | 5.5 | 4.6 | 34.7 | 19.8 | BDL | BDL |
| **70** | ng/L | 2.6 | 5.1 | 9.5 | 6.5 | 24.6 | 27.0 | BDL | 28.4 | 18.0 | 101.9 | 64.9 | 32.5 | 1.1 | 7.9 | 6.8 | 89.3 | 63.1 | BDL | BDL |
| **71** | ng/L | 4.3 | 65.0 | 24.4 | 22.9 | 26.8 | 56.0 | BDL | 55.5 | 37.6 | 89.5 | 61.1 | 63.1 | 5.1 | 13.0 | 12.3 | 100.2 | 83.4 | BDL | BDL |
| **73** | ng/L | 3.8 | 7.0 | 17.7 | 11.8 | 11.3 | 17.0 | BDL | 22.3 | 14.9 | 29.4 | 18.5 | 28.5 | 5.3 | 4.6 | 3.6 | 43.3 | 27.5 | BDL | BDL |
| **74** | ng/L | 2.6 | BDL | 15.9 | 12.6 | 7.1 | 9.1 | BDL | 5.3 | BDL | 30.4 | 19.7 | BDL | BDL | 2.7 | 2.7 | 31.4 | BDL | BDL | BDL |

| Sediment | | | 1 | 6 | 6 | 7 | 8 | 9 | 11 | 11 | 18 | 18 | 19 | 20 | 25 | 25 | 30 | 30 | 33 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | | | C1 | 2 | C6 | C7 | C8 | C9 | 1 | C11 | 3 | C18 | C19 | C20 | 6 | C25 | 4 | C30 | 5 | C33 |
| | **Units** | **Reporting Limit** | | | | | | | | | | | | | | | | | | |
| **75** | ng/L | 3.7 | BDL | 14.2 | 11.5 | 5.8 | 14.4 | BDL | 18.6 | 12.4 | 38.9 | 25.4 | 16.2 | 1.7 | 5.4 | 4.3 | 29.7 | 20.0 | BDL | BDL |
| **77** | ng/L | 1.8 | BDL | 0.5 | BDL | BDL | BDL | BDL | 0.6 | BDL | 2.1 | 2.1 | 1.5 | BDL | BDL | BDL | 1.7 | 2.7 | BDL | BDL |
| **81** | ng/L | 1.8 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **82** | ng/L | 2.6 | BDL | BDL | BDL | 1.0 | BDL | BDL | BDL | BDL | 3.5 | 2.4 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **83** | ng/L | 2.2 | 6.8 | 10.4 | 7.1 | 2.5 | 8.4 | BDL | 8.6 | 6.1 | 24.9 | 15.1 | 7.4 | 1.0 | 3.2 | 1.8 | 21.1 | 10.2 | BDL | BDL |
| **84** | ng/L | 3.8 | 34.2 | 33.5 | 32.7 | 28.9 | 52.0 | BDL | 47.6 | 32.0 | 108.0 | 68.1 | 45.7 | 4.4 | 19.1 | 17.4 | 88.6 | 63.7 | BDL | BDL |
| **85** | ng/L | 2.0 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **87** | ng/L | 2.1 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **90/101** | ng/L | 1.7 | 23.2 | 68.2 | 48.4 | 30.1 | 60.8 | BDL | 61.2 | 32.7 | 115.6 | 99.7 | 74.2 | 10.9 | 24.0 | 17.6 | 123.4 | 84.1 | BDL | BDL |
| **91** | ng/L | 3.0 | 27.6 | 51.7 | 36.0 | 25.6 | 60.3 | BDL | 65.4 | 37.6 | 131.4 | 81.6 | 93.6 | 12.1 | 20.8 | 19.1 | 125.5 | 88.6 | BDL | BDL |
| **92** | ng/L | 1.8 | 28.3 | 70.2 | 49.2 | 16.1 | 54.1 | BDL | 59.8 | 34.9 | 120.6 | 69.6 | 50.8 | 11.5 | 17.5 | 15.5 | 96.0 | 66.0 | BDL | BDL |
| **93** | ng/L | 3.8 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **95** | ng/L | 3.0 | 106.8 | 84.1 | 79.4 | 48.4 | 117.1 | BDL | 113.5 | 71.2 | 199.1 | 154.1 | 73.7 | 17.0 | 43.3 | 49.4 | 167.6 | 139.7 | BDL | BDL |
| **97** | ng/L | 2.1 | 0.9 | 5.4 | 3.9 | 3.6 | 3.8 | BDL | 3.8 | 2.2 | 18.9 | 9.9 | 3.8 | 0.2 | 1.3 | 1.3 | 18.3 | 10.2 | BDL | BDL |
| **99** | ng/L | 1.6 | 6.0 | 34.9 | 24.0 | 8.9 | 15.9 | BDL | 17.1 | 9.9 | 46.0 | 25.8 | 19.0 | 1.6 | 6.2 | 4.6 | 40.2 | 28.2 | BDL | BDL |
| **100** | ng/L | 2.4 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **103** | ng/L | 2.5 | 7.0 | 13.0 | 8.6 | 5.9 | 13.1 | BDL | 9.0 | 7.1 | 17.7 | 12.2 | 14.8 | 6.1 | 3.5 | 4.7 | 19.1 | 15.1 | BDL | BDL |
| **104** | ng/L | 6.5 | 6.2 | 11.5 | 9.7 | 3.7 | 6.6 | BDL | 8.4 | 5.6 | 18.5 | 10.8 | 16.7 | 5.1 | BDL | BDL | 17.2 | 11.4 | BDL | BDL |
| **105** | ng/L | 0.9 | 0.5 | 0.5 | 0.6 | 1.0 | 0.8 | BDL | 0.8 | 0.6 | 2.6 | 1.3 | 0.9 | 0.6 | 0.7 | 0.5 | 3.3 | 2.0 | BDL | BDL |
| **107** | ng/L | 0.8 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **110** | ng/L | 1.3 | 33.8 | 34.1 | 26.1 | 20.7 | 46.1 | BDL | 48.4 | 31.1 | 91.2 | 57.5 | 31.3 | 6.8 | 18.5 | 16.6 | 79.4 | 58.7 | BDL | BDL |
| **114** | ng/L | 0.9 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **115** | ng/L | 1.3 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **117** | ng/L | 1.4 | BDL | 4.7 | 4.6 | 3.8 | 4.1 | BDL | 4.6 | 4.1 | 8.6 | 6.9 | 8.9 | 2.6 | 1.9 | 2.7 | 10.1 | 6.5 | BDL | BDL |
| **118** | ng/L | 0.7 | 1.2 | 5.1 | 3.3 | 3.3 | 5.1 | BDL | 5.2 | 3.0 | 14.3 | 7.9 | 4.3 | 1.1 | 1.7 | 1.7 | 13.5 | 9.6 | BDL | BDL |
| **119** | ng/L | 1.0 | 4.2 | 6.9 | 4.8 | 2.3 | 5.8 | BDL | 7.4 | 4.3 | 14.1 | 7.2 | 7.5 | 1.2 | 2.6 | 1.8 | 12.8 | 9.4 | BDL | BDL |
| **122** | ng/L | 0.9 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **123** | ng/L | 0.7 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **124** | ng/L | 0.7 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **126** | ng/L | 0.5 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **128** | ng/L | 0.7 | BDL | 0.4 | BDL | BDL | 0.6 | BDL | 0.4 | 0.4 | 1.4 | 0.8 | BDL | BDL | BDL | BDL | 1.5 | 1.2 | BDL | BDL |
| **129** | ng/L | 0.7 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **130** | ng/L | 0.6 | BDL | 2.3 | 1.4 | BDL | 0.9 | BDL | BDL | BDL | 2.2 | BDL | BDL | BDL | BDL | BDL | 2.3 | 1.7 | BDL | BDL |
| **131** | ng/L | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **132** | ng/L | 1.0 | 5.2 | 13.8 | 9.7 | 3.0 | 11.6 | BDL | 11.1 | 6.5 | 22.4 | 12.2 | 7.5 | 1.0 | 3.4 | 3.3 | 21.5 | 15.6 | BDL | BDL |
| **134** | ng/L | 1.1 | 1.8 | 4.2 | 3.1 | BDL | 4.4 | BDL | 4.0 | 2.6 | 7.2 | 3.8 | 3.5 | BDL | 1.4 | 1.4 | 7.5 | 4.9 | BDL | BDL |
| **135** | ng/L | 0.9 | 6.2 | 13.8 | 11.4 | 3.1 | 10.2 | BDL | 10.0 | 6.3 | 15.8 | 10.8 | 7.8 | 3.5 | 3.6 | 3.8 | 15.1 | 10.9 | BDL | BDL |
| **136** | ng/L | 2.5 | 11.9 | 32.4 | 22.0 | 7.2 | 24.4 | BDL | 21.2 | 12.2 | 46.3 | 23.7 | 19.6 | 4.0 | 6.9 | 6.8 | 48.4 | 30.3 | BDL | BDL |
| **137** | ng/L | 0.6 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **138/163** | ng/L | 0.5 | 2.8 | 9.8 | 6.6 | 2.6 | 7.3 | BDL | 7.3 | 3.7 | 15.1 | 7.5 | 7.5 | 1.5 | 2.2 | 2.0 | 16.6 | 11.9 | BDL | BDL |
| **141** | ng/L | 0.6 | BDL | 1.0 | 1.0 | 0.8 | 1.1 | BDL | 0.5 | 0.4 | 1.7 | 0.9 | BDL | BDL | BDL | 0.7 | 1.4 | 1.7 | BDL | BDL |
| **144** | ng/L | 0.8 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.4 | 0.5 | BDL | BDL | BDL | BDL | 0.6 | BDL | BDL |
| **146** | ng/L | 0.5 | 1.5 | 10.8 | 7.3 | 0.9 | 2.8 | BDL | 2.7 | 1.4 | 5.5 | 2.8 | 3.1 | 0.5 | 0.8 | 0.8 | 5.3 | 3.7 | BDL | BDL |
| **147** | ng/L | 0.9 | 0.9 | 3.5 | BDL | 1.2 | 2.7 | BDL | 2.4 | 1.4 | 6.8 | 3.5 | 13.2 | 2.1 | 0.5 | 0.4 | 8.1 | 5.1 | BDL | BDL |
| **149** | ng/L | 0.8 | 13.1 | 44.3 | 29.2 | 7.6 | 25.9 | BDL | 25.1 | 13.9 | 45.2 | 24.3 | 19.1 | 4.6 | 8.5 | 7.8 | 48.5 | 33.9 | BDL | BDL |
| **151** | ng/L | 0.9 | 5.2 | 24.0 | 15.5 | 3.5 | 12.8 | BDL | 12.4 | 6.7 | 24.2 | 12.7 | 12.5 | 3.0 | 3.8 | 3.4 | 24.9 | 17.3 | BDL | BDL |
| **153** | ng/L | 0.5 | 1.0 | 8.5 | 7.0 | 1.3 | 4.5 | BDL | 3.6 | 1.7 | 7.4 | 4.2 | 4.5 | 0.5 | 1.0 | 0.8 | 7.8 | 6.5 | BDL | BDL |
| **154** | ng/L | 0.7 | 1.8 | 6.6 | 4.3 | BDL | 3.5 | BDL | 3.5 | 1.9 | 6.3 | 2.8 | 3.5 | 1.0 | 1.1 | 1.0 | 8.2 | 4.2 | BDL | BDL |
| **156** | ng/L | 0.3 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **157** | ng/L | 0.3 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **158** | ng/L | 0.4 | BDL | 0.3 | 0.2 | 0.2 | 0.3 | BDL | 0.3 | 0.2 | 1.2 | 0.4 | BDL | BDL | 0.2 | BDL | 1.2 | 0.6 | BDL | BDL |
| **164** | ng/L | 0.4 | BDL | 0.3 | BDL | BDL | 0.2 | BDL | BDL | BDL | 0.4 | 0.3 | BDL | BDL | BDL | BDL | 0.4 | BDL | BDL | BDL |
| **165** | ng/L | 0.3 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **167** | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **169** | ng/L | 0.1 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **170** | ng/L | 0.2 | 0.1 | 0.5 | 0.3 | 0.1 | 0.3 | BDL | 0.2 | 0.1 | 0.7 | 0.3 | 0.4 | BDL | 0.1 | 0.1 | 0.8 | 0.5 | BDL | BDL |
| **171** | ng/L | 0.3 | 0.2 | 0.5 | 0.4 | BDL | 0.3 | BDL | 0.2 | 0.2 | 0.6 | 0.3 | 0.4 | BDL | 0.1 | 0.2 | 0.7 | 0.5 | BDL | BDL |
| **172** | ng/L | 0.2 | BDL | BDL | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.2 | BDL | BDL | 0.1 | BDL | BDL | BDL | BDL |
| **173** | ng/L | 0.4 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **174** | ng/L | 0.3 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **175** | ng/L | 0.3 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **176** | ng/L | 0.7 | BDL | 1.7 | BDL | BDL | 1.3 | BDL | BDL | BDL | 1.3 | BDL | 0.9 | BDL | BDL | BDL | 2.0 | 1.1 | BDL | BDL |
| **177** | ng/L | 0.3 | 0.6 | 2.8 | 1.8 | 0.4 | 1.7 | BDL | 1.5 | 0.8 | 3.4 | 1.3 | 1.6 | 0.3 | 0.4 | 0.4 | 3.6 | 2.1 | BDL | BDL |

| Sediment | | | 1 | 6 | 6 | 7 | 8 | 9 | 11 | 11 | 18 | 18 | 19 | 20 | 25 | 25 | 30 | 30 | 33 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | | | C1 | 2 | C6 | C7 | C8 | C9 | 1 | C11 | 3 | C18 | C19 | C20 | 6 | C25 | 4 | C30 | 5 | C33 |
| | Units | Reporting Limit | | | | | | | | | | | | | | | | | | |
| 178 | ng/L | 0.3 | 0.7 | 2.1 | 1.4 | 0.5 | 1.5 | BDL | 1.4 | 1.0 | 2.2 | 1.2 | 1.4 | 0.6 | 0.5 | 0.5 | 2.4 | 1.7 | BDL | BDL |
| 179 | ng/L | 0.7 | BDL | 7.0 | 5.0 | 1.3 | 4.0 | BDL | 3.2 | BDL | 5.7 | 3.3 | BDL | BDL | 1.1 | BDL | 6.8 | BDL | BDL | BDL |
| 180 | ng/L | 0.2 | 0.1 | 1.5 | 0.9 | 0.2 | 0.1 | BDL | 0.6 | 0.3 | 1.4 | 0.6 | 1.0 | 0.1 | 0.1 | 0.1 | 1.6 | 1.2 | BDL | BDL |
| 183 | ng/L | 0.2 | 0.1 | 0.9 | 0.6 | 0.1 | 0.4 | BDL | 0.3 | 0.2 | 0.8 | 0.4 | 0.6 | BDL | BDL | 0.1 | 1.0 | 0.7 | BDL | BDL |
| 185 | ng/L | 0.3 | BDL | 0.2 | 0.1 | 0.0 | 0.1 | BDL | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 | BDL | BDL | 0.0 | 0.3 | 0.2 | BDL | BDL |
| 187 | ng/L | 0.3 | 1.0 | 6.0 | 3.7 | 0.8 | 3.0 | BDL | 3.0 | 1.5 | 4.6 | 2.3 | 3.0 | 0.7 | 0.9 | 0.8 | 5.4 | 3.9 | BDL | BDL |
| 189 | ng/L | 0.1 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 190 | ng/L | 0.1 | BDL | 0.1 | 0.0 | BDL | 0.1 | BDL | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | BDL | BDL | BDL | 0.1 | 0.1 | BDL | BDL |
| 191 | ng/L | 0.1 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 193 | ng/L | 0.1 | 0.0 | 0.2 | 0.1 | 0.0 | 0.1 | BDL | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | BDL | BDL | 0.1 | 0.1 | 0.1 | BDL | BDL |
| 194 | ng/L | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | BDL | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | BDL | BDL |
| 195 | ng/L | 0.1 | BDL | 0.1 | 0.0 | BDL | 0.0 | BDL | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | BDL | BDL | BDL | 0.1 | 0.0 | BDL | BDL |
| 196 | ng/L | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | BDL | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | BDL | BDL |
| 197 | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 199 | ng/L | 0.1 | 0.1 | 0.5 | 0.3 | 0.1 | 0.2 | BDL | 0.2 | 0.1 | 0.4 | 0.1 | 0.3 | 0.0 | 0.1 | 0.0 | 0.4 | 0.3 | BDL | BDL |
| 200 | ng/L | 0.2 | BDL | 0.2 | BDL | BDL | BDL | BDL | 0.2 | BDL | 0.3 | BDL | BDL | BDL | BDL | BDL | 0.3 | BDL | BDL | BDL |
| 201 | ng/L | 0.2 | BDL | 0.2 | BDL | BDL | BDL | BDL | 0.1 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.2 | BDL | BDL | BDL |
| 202 | ng/L | 0.1 | 0.1 | 0.2 | 0.2 | BDL | 0.1 | BDL | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | BDL | 0.1 | 0.2 | 0.2 | BDL | BDL |
| 203 | ng/L | 0.2 | 0.1 | 0.5 | 0.3 | BDL | 0.2 | BDL | 0.3 | 0.1 | 0.3 | 0.2 | 0.4 | BDL | 0.1 | 0.1 | 0.4 | 0.4 | BDL | BDL |
| 205 | ng/L | 0.1 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 206 | ng/L | 0.029 | 0.005 | 0.058 | 0.025 | 0.007 | 0.030 | BDL | 0.040 | 0.013 | 0.078 | 0.019 | 0.073 | 0.005 | BDL | 0.006 | 0.082 | 0.043 | BDL | BDL |
| 207 | ng/L | 0.067 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 208 | ng/L | 0.072 | BDL | 0.030 | 0.019 | BDL | 0.024 | BDL | 0.029 | 0.009 | 0.085 | 0.014 | 0.043 | BDL | BDL | BDL | 0.063 | 0.033 | BDL | BDL |
| 209 | ng/L | 0.024 | BDL | BDL | 0.002 | BDL | 0.006 | BDL | BDL | 0.003 | 1.288 | 0.003 | BDL | BDL | BDL | BDL | 1.063 | 0.007 | BDL | BDL |

| Sediment | | | 1 | 6 | 6 | 7 | 8 | 9 | 11 | 11 | 18 | 19 | 19 | 20 | 25 | 25 | 30 | 30 | 33 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | | | 24 | 23 | 6U | 36 | 35 | 34 | 33 | 11U | 32 | 31 | 19U | 26 | 27 | 25U | 28 | 30U | 29 | 33U |
| | **Units** | **Reporting Limit** | | | | | | | | | | | | | | | | | | |
| **PCB Homolog Groups** | | | | | | | | | | | | | | | | | | | | |
| **Total Monochlorobiphenyl** | µg/L | | 71.6 | 155.3 | 70.6 | 93.8 | 128.4 | BDL | 52.9 | 80.5 | 280.1 | 253.8 | 302.4 | 18.7 | 56.1 | BDL | 280.8 | 54.8 | BDL | BDL |
| **Total Dichlorobiphenyl** | µg/L | | 25.2 | 29.4 | 18.4 | 13.5 | 21.5 | BDL | 13.1 | 19.5 | 62.1 | 73.8 | 75.5 | 4.3 | 9.3 | 6.0 | 38.2 | 14.1 | 0.10 | BDL |
| **Total Trichlorobiphenyl** | µg/L | | 19.2 | 29.6 | 23.2 | 9.8 | 20.2 | BDL | 17.1 | 20.7 | 41.7 | 60.1 | 72.2 | 5.3 | 9.5 | 7.3 | 35.4 | 17.0 | 0.06 | BDL |
| **Total Tetrachlorobiphenyl** | µg/L | | 3.60 | 3.23 | 2.89 | 1.29 | 2.31 | BDL | 1.99 | 2.47 | 4.55 | 7.80 | 9.72 | 0.65 | 0.81 | 0.74 | 4.36 | 2.73 | BDL | BDL |
| **Total Pentachlorobiphenyl** | µg/L | | 0.49 | 0.71 | 0.60 | 0.17 | 0.40 | BDL | 0.49 | 0.36 | 1.10 | 1.19 | 1.13 | 0.13 | 0.17 | 0.16 | 0.80 | 0.44 | BDL | BDL |
| **Total Hexachlorobiphenyl** | µg/L | | 0.09 | 0.27 | 0.25 | 0.03 | 0.10 | BDL | 0.10 | 0.07 | 0.18 | 0.33 | 0.25 | 0.02 | 0.03 | 0.03 | 0.16 | 0.10 | BDL | BDL |
| **Total Heptachlorobiphenyl** | µg/L | | 0.01 | 0.04 | 0.02 | 0.00 | 0.01 | BDL | 0.01 | 0.01 | 0.01 | 0.03 | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | BDL | BDL |
| **Total Octachlorobiphenyl** | µg/L | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | BDL | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | BDL | BDL |
| **Total Nonachlorobiphenyl** | µg/L | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | BDL | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | BDL | 0.00 | 0.00 | 0.00 | BDL | BDL |
| **Total Homolog PCB** | µg/L | | 120.2 | 218.5 | 115.9 | 118.6 | 172.9 | 0.0 | 85.7 | 123.6 | 389.8 | 397.1 | 461.3 | 29.0 | 75.9 | 14.3 | 359.8 | 89.2 | 0.17 | 0.00 |
| **PCB Congener** | | | | | | | | | | | | | | | | | | | | |
| **1** | ng/L | 160 | 68402 | 152195 | 70611 | 93778 | 126683 | BDL | 52852 | 80547 | 263027 | 247758 | 302436 | 18664 | 56118 | BDL | 278443 | 54766 | BDL | BDL |
| **3** | ng/L | 93 | 3183 | 3057 | BDL | BDL | 1682 | BDL | BDL | BDL | 17059 | 6054 | BDL | BDL | BDL | BDL | 2364 | BDL | BDL | BDL |
| **4** | ng/L | 102 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **5** | ng/L | 48 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 112 | 113 | BDL | BDL | BDL | BDL | 39 | BDL | BDL | BDL |
| **6** | ng/L | 39 | 7565 | 1680 | 859 | 846 | 1476 | BDL | 924 | 1434 | 5951 | 6575 | 6987 | 289 | 643 | 331 | 3041 | 924 | BDL | BDL |
| **7** | ng/L | 38 | 897 | 1429 | 741 | 235 | 405 | BDL | 154 | 283 | 1612 | 1425 | 1607 | 39 | 138 | BDL | 1067 | 261 | BDL | BDL |
| **8** | ng/L | 38 | 10968 | 11412 | 6837 | 5202 | 8659 | BDL | 4285 | 6536 | 37757 | 29744 | 30823 | 1284 | 3642 | 1779 | 13336 | 4561 | 58 | BDL |
| **9** | ng/L | 39 | 346 | 326 | 164 | 304 | 470 | BDL | 295 | 514 | 1297 | 1955 | 2411 | 88 | 312 | BDL | 727 | 218 | BDL | BDL |
| **10** | ng/L | 65 | 5454 | 14373 | 9766 | 6940 | 10485 | BDL | 7449 | 10744 | 14884 | 33553 | 33287 | 2608 | 4522 | 3886 | 19825 | 8111 | 46 | BDL |
| **12/13** | ng/L | 24 | BDL | 172 | BDL | BDL | BDL | BDL | BDL | BDL | 526 | 422 | 421 | BDL | BDL | BDL | 215 | BDL | BDL | BDL |
| **14** | ng/L | 23 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **17** | ng/L | 25 | 4128 | 4731 | 3225 | 1446 | 4221 | BDL | 2422 | 2952 | 11833 | 10138 | 12185 | 632 | 2502 | 1964 | 5286 | 2024 | 17 | BDL |
| **18** | ng/L | 25 | 3679 | 699 | 464 | 475 | 448 | BDL | 440 | 617 | 1756 | 1608 | 1906 | 126 | 190 | 140 | 1376 | 528 | BDL | BDL |
| **19** | ng/L | 42 | 6563 | 19265 | 15640 | 6169 | 11600 | BDL | 11257 | 13493 | 17246 | 36875 | 44449 | 3833 | 5025 | 3971 | 22110 | 11143 | 47 | BDL |
| **20** | ng/L | 11 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **22** | ng/L | 11 | 80 | BDL | BDL | 46 | 79 | BDL | 38 | 38 | 363 | 401 | 440 | BDL | 13 | BDL | 273 | 97 | BDL | BDL |
| **24** | ng/L | 19 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **25** | ng/L | 9 | 682 | 331 | 217 | 95 | 169 | BDL | 151 | 154 | 704 | 733 | 833 | 45 | 66 | 33 | 333 | 132 | BDL | BDL |
| **26/29** | ng/L | 10 | 667 | 418 | 330 | 190 | 372 | BDL | BDL | 419 | 1058 | 1264 | 1382 | 70 | 138 | 103 | 560 | 282 | BDL | BDL |
| **27** | ng/L | 16 | 672 | 1380 | 1126 | 567 | 1383 | BDL | 1454 | 1567 | 2381 | 3928 | 4830 | 245 | 569 | 430 | 2635 | 1459 | BDL | BDL |
| **28/31** | ng/L | 9 | 1036 | 1216 | 950 | 277 | 543 | BDL | 439 | 430 | 2060 | 1785 | 2082 | 87 | 198 | 97 | 1081 | 477 | BDL | BDL |
| **32** | ng/L | 16 | 1649 | 1463 | 1190 | 522 | 1370 | BDL | 842 | 931 | 4184 | 3184 | 3889 | 210 | 751 | 584 | 1648 | 831 | BDL | BDL |
| **33** | ng/L | 10.70 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **34** | ng/L | 9 | 40 | 86 | 54 | 24 | 64 | BDL | 72 | 72 | 126 | 186 | 217 | 12 | 27 | 20 | 127 | 53 | BDL | BDL |
| **35** | ng/L | 6 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **37** | ng/L | 6 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **40** | ng/L | 9 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **41** | ng/L | 9 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **42** | ng/L | 7 | 157 | 46 | BDL | 32 | 43 | BDL | 46 | BDL | 140 | 176 | 187 | 10 | 17 | 13 | 96 | 70 | BDL | BDL |
| **44** | ng/L | 7 | 377 | 90 | 77 | 44 | 52 | BDL | 61 | 57 | 288 | 269 | 309 | 8 | 15 | 13 | 197 | 128 | BDL | BDL |
| **45** | ng/L | 13 | 236 | 360 | 293 | 81 | 279 | BDL | 300 | 275 | 685 | 533 | 679 | 51 | 138 | 119 | 373 | 203 | BDL | BDL |
| **46** | ng/L | 13 | 76 | 42 | 40 | 41 | 62 | BDL | 47 | 52 | 125 | 211 | 263 | 11 | 9 | 9 | 144 | 91 | BDL | BDL |
| **47** | ng/L | 6 | 191 | 299 | 297 | 155 | 285 | BDL | 302 | 404 | 554 | 981 | 1708 | 64 | 108 | 133 | 540 | 323 | BDL | BDL |
| **48** | ng/L | 7 | BDL | 64 | 43 | BDL | 13 | BDL | 11 | BDL | 46 | 37 | BDL | BDL | 3 | BDL | 40 | 17 | BDL | BDL |
| **49** | ng/L | 6 | 584 | 255 | 234 | 134 | 234 | BDL | 267 | 242 | 666 | 801 | 866 | 51 | 87 | 73 | 417 | 294 | BDL | BDL |
| **51** | ng/L | 10 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **52** | ng/L | 6 | 905 | 348 | 309 | 180 | 253 | BDL | 280 | 265 | 666 | 695 | 784 | 68 | 98 | 86 | 442 | 307 | BDL | BDL |
| **53** | ng/L | 10 | 516 | 463 | 399 | 284 | 422 | BDL | BDL | 455 | 175 | 1514 | 1772 | 139 | 138 | 113 | 856 | 598 | BDL | BDL |
| **54** | ng/L | 27 | 254 | 944 | 948 | 167 | 373 | BDL | 364 | 476 | 451 | 1706 | 2431 | 200 | 87 | 80 | 678 | 513 | BDL | BDL |
| **56** | ng/L | 3 | 8 | BDL | BDL | 5 | 7 | BDL | 4 | BDL | 29 | 27 | 31 | BDL | BDL | BDL | 23 | 14 | BDL | BDL |
| **59** | ng/L | 5 | 13 | 29 | BDL | 7 | 21 | BDL | 22 | BDL | 39 | 60 | 65 | 4 | 7 | 5 | 31 | 19 | BDL | BDL |
| **60** | ng/L | 3 | 3 | 4 | BDL | 4 | 4 | BDL | 4 | BDL | 6 | 8 | 8 | BDL | 4 | BDL | 7 | 4 | BDL | BDL |
| **63** | ng/L | 3 | 10 | 20 | 16 | 8 | 17 | BDL | 21 | 17 | 39 | 55 | 55 | 3 | 6 | 5 | 31 | 15 | BDL | BDL |
| **64** | ng/L | 5 | 121 | 95 | 94 | 45 | 103 | BDL | 105 | 95 | 241 | 229 | BDL | 18 | 50 | 49 | 149 | BDL | BDL | BDL |
| **66** | ng/L | 3 | 8 | 18 | 11 | 22 | 32 | BDL | 24 | 22 | 86 | 91 | 82 | 2 | 8 | 7 | 66 | 37 | BDL | BDL |
| **67** | ng/L | 2.58 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **69** | ng/L | 3.77 | 3.9 | 21.5 | 19.4 | 3.9 | 13.5 | BDL | 17.9 | 16.5 | 25.6 | 42.9 | 47.9 | 3.3 | 5.1 | 4.9 | 24.8 | 17.6 | BDL | BDL |
| **70** | ng/L | 2.58 | 8.1 | 13.4 | 10.4 | 22.7 | 25.8 | BDL | 25.9 | 22.2 | 97.8 | 85.6 | 89.3 | 1.5 | 7.3 | 6.6 | 70.3 | 45.1 | BDL | BDL |
| **71** | ng/L | 4.35 | 94.8 | 42.0 | 33.3 | 26.1 | 52.2 | BDL | 53.5 | 44.7 | 98.6 | 153.6 | 153.5 | 7.0 | 14.7 | 12.6 | 96.9 | BDL | BDL | BDL |
| **73** | ng/L | 3.77 | 11.4 | 26.1 | 20.8 | 8.5 | BDL | BDL | 18.7 | 17.2 | 23.3 | 74.2 | 129.6 | 8.0 | 3.9 | 4.3 | 33.2 | 24.6 | BDL | BDL |
| **74** | ng/L | 2.58 | 12.8 | 22.8 | 22.7 | 12.6 | BDL | BDL | BDL | BDL | 32.0 | BDL | BDL | BDL | BDL | BDL | 22.6 | BDL | BDL | BDL |
| **75** | ng/L | 3.68 | 11.6 | 23.9 | 18.9 | 5.2 | 14.3 | BDL | 15.3 | 13.3 | 32.6 | 43.8 | 51.3 | 2.6 | 4.4 | 3.9 | 22.7 | 13.3 | BDL | BDL |
| **77** | ng/L | 1.76 | BDL | 0.7 | BDL | BDL | BDL | BDL | 0.5 | BDL | 2.5 | 2.6 | 3.6 | BDL | BDL | BDL | 1.7 | 1.6 | BDL | BDL |
| **81** | ng/L | 1.76 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **82** | ng/L | 2.58 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 3.34 | BDL | BDL | BDL | BDL | BDL | 3.50 | BDL | BDL | BDL |
| **83** | ng/L | 2.24 | 12.03 | 14.38 | 10.23 | 2.38 | 9.32 | BDL | 9.87 | 7.30 | 22.98 | 25.91 | 26.34 | 1.47 | 2.00 | 2.01 | 10.98 | 7.47 | BDL | BDL |
| **84** | ng/L | 3.77 | 51.86 | 63.07 | 48.13 | 22.21 | 38.69 | BDL | 52.98 | 37.14 | 107.58 | 105.89 | 96.12 | 9.76 | 23.45 | 21.61 | 77.90 | 48.55 | BDL | BDL |
| **85** | ng/L | 2.03 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **87** | ng/L | 2.08 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |

| Sediment | | | 1 | 6 | 6 | 7 | 8 | 9 | 11 | 11 | 18 | 19 | 19 | 20 | 25 | 25 | 30 | 30 | 33 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | | | 24 | 23 | 6U | 36 | 35 | 34 | 33 | 11U | 32 | 31 | 19U | 26 | 27 | 25U | 28 | 30U | 29 | 33U |
| | **Units** | **Reporting Limit** | | | | | | | | | | | | | | | | | | |
| **90/101** | ng/L | 1.72 | 47.64 | 103.90 | 91.33 | 24.61 | 54.13 | BDL | 60.99 | 43.46 | 109.96 | 200.63 | 183.30 | 37.37 | 20.12 | 15.89 | 93.62 | 59.77 | BDL | BDL |
| **91** | ng/L | 3.05 | 46.78 | 70.77 | 64.37 | 21.71 | 55.38 | BDL | 61.22 | 50.71 | 114.68 | 247.48 | 237.93 | 14.46 | 18.57 | 18.66 | 86.73 | 62.05 | BDL | BDL |
| **92** | ng/L | 1.81 | 45.81 | 102.61 | 95.13 | 13.73 | 49.12 | BDL | 55.52 | 43.95 | 106.64 | 139.77 | 129.89 | 13.77 | 14.59 | 15.01 | 67.72 | 48.60 | BDL | BDL |
| **93** | ng/L | 3.77 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **95** | ng/L | 3.05 | 186.78 | 182.07 | 123.97 | 42.55 | 108.15 | BDL | 140.35 | 93.49 | 420.80 | 183.83 | 189.10 | 28.50 | 59.85 | 47.73 | 301.00 | 107.14 | BDL | BDL |
| **97** | ng/L | 2.08 | 1.54 | 6.41 | 5.68 | 3.14 | 3.59 | BDL | 4.12 | 2.58 | 15.56 | 12.44 | 12.88 | 0.31 | 1.18 | 1.13 | 13.40 | 7.43 | BDL | BDL |
| **99** | ng/L | 1.64 | 10.19 | 54.86 | 47.34 | 8.13 | 15.25 | BDL | 19.10 | 12.42 | 38.04 | 54.34 | 47.90 | BDL | 5.43 | 4.66 | 29.18 | 20.30 | BDL | BDL |
| **100** | ng/L | 2.40 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **103** | ng/L | 2.46 | 12.80 | 21.49 | 21.14 | 5.03 | 11.91 | BDL | 11.88 | 12.54 | 18.78 | 35.65 | 31.37 | 5.08 | 2.87 | 6.53 | 13.52 | 11.30 | BDL | BDL |
| **104** | ng/L | 6.50 | 8.01 | 17.21 | 15.13 | 2.87 | 5.32 | BDL | 7.10 | 5.62 | 14.93 | 48.53 | 48.20 | 6.06 | BDL | BDL | 13.48 | 9.45 | BDL | BDL |
| **105** | ng/L | 0.89 | 0.70 | BDL | BDL | 1.06 | 0.84 | BDL | 1.11 | 0.73 | 2.76 | 1.63 | 1.28 | 0.57 | 0.73 | 0.48 | 2.36 | 1.33 | BDL | BDL |
| **107** | ng/L | 0.77 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **110** | ng/L | 1.33 | 50.34 | 51.09 | 47.46 | 18.76 | 42.18 | BDL | 50.40 | 37.42 | 87.07 | 82.86 | 78.87 | 8.34 | 16.69 | 16.36 | 63.23 | 43.54 | BDL | BDL |
| **114** | ng/L | 0.89 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **115** | ng/L | 1.30 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | | |
| **117** | ng/L | 1.4 | 4.4 | 5.1 | 5.8 | BDL | BDL | BDL | 6.8 | 4.7 | 9.7 | 19.4 | 16.1 | 2.5 | 2.5 | 2.7 | 7.2 | 4.8 | BDL | BDL |
| **118** | ng/L | 0.7 | 2.1 | 7.6 | 11.1 | 2.9 | 4.9 | BDL | 4.9 | 3.5 | 13.4 | 13.2 | 10.9 | 0.8 | 1.4 | 1.8 | 11.1 | 6.3 | BDL | BDL |
| **119** | ng/L | 1.0 | 6.9 | 10.1 | 8.4 | 2.3 | 5.8 | BDL | 6.4 | 5.2 | 11.6 | 21.1 | 19.1 | 1.5 | 1.9 | 1.8 | 9.8 | 5.9 | BDL | BDL |
| **122** | ng/L | 0.9 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **123** | ng/L | 0.7 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **124** | ng/L | 0.7 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **126** | ng/L | 0.5 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **128** | ng/L | 0.7 | BDL | 0.6 | BDL | BDL | BDL | BDL | BDL | BDL | 1.4 | 1.8 | 1.1 | BDL | BDL | BDL | 1.4 | 0.9 | BDL | BDL |
| **129** | ng/L | 0.7 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **130** | ng/L | 0.6 | 0.8 | 3.7 | 3.3 | BDL | 1.0 | BDL | BDL | BDL | 2.0 | 3.1 | 2.5 | BDL | BDL | BDL | 1.9 | 0.9 | BDL | BDL |
| **131** | ng/L | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **132** | ng/L | 1.0 | 9.1 | 20.8 | 19.5 | 3.4 | 12.0 | BDL | 10.9 | 6.8 | 21.1 | 24.2 | 18.7 | 1.2 | 3.2 | 3.6 | 17.0 | 10.9 | BDL | BDL |
| **134** | ng/L | 1.1 | 3.9 | 8.5 | 6.1 | BDL | 3.9 | BDL | 4.3 | BDL | 7.5 | 11.8 | 7.8 | BDL | BDL | 1.1 | 6.6 | 3.4 | BDL | BDL |
| **135** | ng/L | 0.9 | 10.3 | 24.1 | 22.3 | 3.2 | 10.0 | BDL | 9.6 | 7.8 | 14.2 | 50.1 | 15.2 | 3.4 | 3.1 | 3.6 | 11.3 | 8.1 | BDL | BDL |
| **136** | ng/L | 2.5 | 19.2 | 50.6 | 45.2 | 6.4 | 20.0 | BDL | 20.1 | 14.9 | 37.5 | 56.5 | 47.2 | 4.8 | 5.8 | 6.4 | 29.8 | 20.3 | BDL | BDL |
| **137** | ng/L | 0.6 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **138/163** | ng/L | 0.5 | 4.9 | 15.0 | 14.0 | 2.6 | 7.1 | BDL | 6.7 | 4.3 | 13.6 | 23.7 | 18.5 | 1.6 | 1.8 | 2.0 | 13.9 | 8.2 | BDL | BDL |
| **141** | ng/L | 0.6 | BDL | 1.3 | BDL | BDL | BDL | BDL | BDL | 0.6 | BDL | BDL | 1.8 | BDL | BDL | 0.7 | BDL | 1.4 | BDL | BDL |
| **144** | ng/L | 0.8 | BDL | 0.5 | 0.5 | BDL | BDL | BDL | BDL | BDL | 0.6 | 0.5 | BDL | BDL | BDL | 0.3 | 0.6 | 0.5 | BDL | BDL |
| **146** | ng/L | 0.5 | 3.1 | 15.8 | 15.0 | 0.8 | 2.8 | BDL | 2.9 | 1.7 | 5.0 | 9.5 | 7.4 | 0.6 | 0.6 | 0.7 | 4.3 | 2.8 | BDL | BDL |
| **147** | ng/L | 0.9 | 1.3 | 5.9 | 5.4 | 1.2 | BDL | BDL | 2.3 | 1.7 | 5.9 | 33.4 | 31.1 | 2.2 | 0.4 | 0.5 | 5.4 | 3.4 | BDL | BDL |
| **149** | ng/L | 0.8 | 23.4 | 65.1 | 60.3 | 7.2 | 23.7 | BDL | 23.1 | 16.7 | 40.1 | 56.3 | 45.6 | 5.7 | 6.9 | 7.8 | 35.7 | 23.0 | BDL | BDL |
| **151** | ng/L | 0.9 | 9.6 | 35.7 | 32.8 | 3.2 | 11.9 | BDL | 11.7 | 8.2 | 21.1 | 37.3 | 30.1 | 3.6 | 3.0 | 3.5 | 17.9 | 11.6 | BDL | BDL |
| **153** | ng/L | 0.5 | 2.2 | 14.0 | 13.9 | 1.8 | 4.7 | BDL | 3.6 | 2.1 | 7.9 | 12.1 | 9.3 | 0.4 | 0.7 | 1.1 | 7.7 | 4.7 | BDL | BDL |
| **154** | ng/L | 0.68 | 3.38 | 9.92 | 9.23 | 1.04 | 2.99 | BDL | 3.21 | 2.28 | 4.74 | 10.28 | 8.23 | 1.24 | 0.87 | 0.95 | 4.57 | 2.70 | BDL | BDL |
| **156** | ng/L | 0.25 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **157** | ng/L | 0.25 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **158** | ng/L | 0.37 | BDL | 0.41 | BDL | BDL | BDL | BDL | 0.24 | BDL | 0.60 | 0.79 | BDL | BDL | BDL | BDL | 0.64 | BDL | BDL | BDL |
| **164** | ng/L | 0.37 | BDL | 0.53 | 0.48 | BDL | BDL | BDL | BDL | BDL | 0.39 | 0.57 | 0.58 | BDL | BDL | BDL | 0.37 | BDL | BDL | BDL |
| **165** | ng/L | 0.34 | BDL | 0.40 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.89 | 0.67 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **167** | ng/L | 0.20 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.16 | 0.34 | BDL | BDL | BDL | BDL | 0.20 | BDL | BDL | BDL |
| **169** | ng/L | 0.14 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **170** | ng/L | 0.20 | 0.13 | 0.71 | 0.77 | 0.13 | 0.35 | BDL | 0.18 | 0.13 | 0.64 | 1.38 | 0.86 | 0.03 | 0.08 | 0.06 | 0.77 | 0.37 | BDL | BDL |
| **171** | ng/L | 0.30 | 0.21 | 0.85 | 0.87 | BDL | BDL | BDL | 0.22 | 0.27 | 0.51 | 1.08 | 0.92 | 0.11 | BDL | 0.20 | 0.65 | 0.38 | BDL | BDL |
| **172** | ng/L | 0.18 | BDL | BDL | 0.51 | 0.11 | BDL | BDL | BDL | 0.15 | BDL | BDL | 0.60 | 0.07 | BDL | 0.10 | BDL | 0.25 | BDL | BDL |
| **173** | ng/L | 0.37 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **174** | ng/L | 0.30 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **175** | ng/L | 0.26 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **176** | ng/L | 0.68 | 0.70 | 3.17 | 2.49 | BDL | BDL | BDL | 1.20 | 0.49 | 1.59 | 2.91 | 1.71 | BDL | BDL | BDL | 1.85 | 0.68 | BDL | BDL |
| **177** | ng/L | 0.32 | 1.25 | 4.35 | 4.33 | 0.42 | 1.64 | BDL | 1.41 | 0.92 | 2.59 | 4.73 | 3.39 | 0.43 | 0.38 | 0.45 | 2.75 | 1.42 | BDL | BDL |
| **178** | ng/L | 0.28 | 1.00 | 2.83 | 2.93 | 0.52 | 1.22 | BDL | 1.17 | 1.02 | 1.77 | 3.85 | 2.70 | BDL | BDL | 0.54 | 1.92 | 1.26 | BDL | BDL |
| **179** | ng/L | 0.73 | BDL | 10.90 | BDL | 1.23 | 3.58 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 1.36 | BDL | BDL | BDL | BDL |
| **180** | ng/L | 0.16 | 0.33 | 2.11 | 2.10 | 0.20 | 0.82 | BDL | 0.47 | 0.26 | 1.25 | 2.79 | 2.15 | 0.13 | 0.13 | 0.16 | 1.79 | 0.89 | BDL | BDL |
| **183** | ng/L | 0.24 | 0.24 | 1.40 | 1.33 | 0.12 | 0.42 | BDL | 0.28 | 0.21 | 0.83 | 1.78 | 1.21 | BDL | 0.08 | 0.10 | 0.93 | 0.45 | BDL | BDL |
| **185** | ng/L | 0.30 | 0.10 | 0.29 | 0.24 | 0.03 | 0.14 | BDL | 0.06 | 0.04 | 0.18 | 0.64 | 0.27 | BDL | 0.03 | 0.02 | 0.38 | 0.10 | BDL | BDL |
| **187** | ng/L | 0.26 | 2.22 | 8.80 | 8.60 | 0.82 | 2.72 | BDL | 2.64 | 1.66 | 4.26 | 8.64 | 6.35 | 1.01 | 0.75 | 0.85 | 4.98 | 2.54 | BDL | BDL |
| **189** | ng/L | 0.07 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **190** | ng/L | 0.13 | 0.03 | 0.12 | 0.15 | BDL | BDL | BDL | 0.03 | 0.04 | 0.08 | 0.24 | 0.18 | BDL | BDL | BDL | 0.11 | 0.06 | BDL | BDL |
| **191** | ng/L | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **193** | ng/L | 0.11 | 0.04 | 0.22 | 0.22 | 0.03 | 0.09 | BDL | 0.06 | 0.02 | 0.12 | 0.32 | 0.17 | 0.01 | 0.01 | 0.02 | 0.10 | 0.10 | BDL | BDL |
| **194** | ng/L | 0.06 | 0.04 | 0.17 | 0.19 | 0.02 | 0.10 | BDL | 0.04 | 0.03 | 0.10 | 0.26 | 0.20 | 0.01 | 0.01 | 0.02 | 0.21 | 0.08 | BDL | BDL |
| **195** | ng/L | 0.10 | BDL | 0.10 | 0.12 | BDL | 0.05 | BDL | 0.03 | 0.01 | 0.06 | 0.16 | 0.11 | BDL | BDL | BDL | 0.10 | 0.04 | BDL | BDL |
| **196** | ng/L | 0.08 | 0.04 | 0.19 | 0.22 | 0.03 | 0.09 | BDL | 0.05 | 0.03 | 0.09 | 0.25 | 0.17 | 0.02 | BDL | 0.02 | 0.17 | 0.07 | BDL | BDL |
| **197** | ng/L | 0.19 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **199** | ng/L | 0.09 | 0.12 | 0.68 | 0.74 | 0.06 | 0.25 | BDL | 0.14 | 0.11 | 0.29 | 0.68 | 0.49 | 0.05 | 0.05 | 0.06 | 0.49 | 0.21 | BDL | BDL |
| **200** | ng/L | 0.24 | BDL | 0.47 | BDL | BDL | BDL | BDL | 0.13 | BDL | 0.30 | 0.71 | BDL | BDL | BDL | BDL | 0.33 | BDL | BDL | BDL |

| Sediment | | | 1 | 6 | 6 | 7 | 8 | 9 | 11 | 11 | 18 | 19 | 19 | 20 | 25 | 25 | 30 | 30 | 33 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | | | 24 | 23 | 6U | 36 | 35 | 34 | 33 | 11U | 32 | 31 | 19U | 26 | 27 | 25U | 28 | 30U | 29 | 33U |
| | **Units** | **Reporting Limit** | | | | | | | | | | | | | | | | | | |
| **201** | ng/L | 0.20 | BDL | 0.28 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.33 | BDL | BDL | BDL | BDL | 0.30 | BDL | BDL | BDL |
| **202** | ng/L | 0.09 | 0.09 | 0.40 | 0.30 | 0.06 | 0.12 | BDL | 0.12 | 0.08 | 0.25 | 0.42 | 0.23 | 0.07 | 0.04 | 0.05 | 0.21 | 0.09 | BDL | BDL |
| **203** | ng/L | 0.22 | 0.13 | 0.74 | 0.83 | BDL | 0.30 | BDL | 0.18 | 0.12 | 0.32 | 0.88 | 0.59 | 0.07 | 0.05 | 0.07 | 0.67 | 0.25 | BDL | BDL |
| **205** | ng/L | 0.08 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **206** | ng/L | 0.029 | 0.042 | 0.065 | 0.071 | 0.009 | 0.047 | BDL | 0.026 | BDL | 0.048 | BDL | 0.106 | 0.010 | BDL | 0.012 | 0.154 | 0.036 | BDL | BDL |
| **207** | ng/L | 0.067 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **208** | ng/L | 0.072 | 0.019 | 0.057 | 0.059 | BDL | 0.027 | BDL | 0.014 | 0.011 | 0.026 | 0.066 | 0.043 | BDL | BDL | 0.009 | 0.089 | 0.024 | BDL | BDL |
| **209** | ng/L | 0.024 | 0.047 | BDL | 0.006 | BDL | BDL | BDL | BDL | 0.003 | 0.008 | 0.012 | 0.019 | BDL | BDL | 0.003 | 0.023 | 0.007 | BDL | BDL |

| Sediment | | | 1 | 9 | 13 | 20 | 25 | 27 | 28 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | | | 7 | 9 | 14 | 8 | 12 | 11 | 10 | 13 |
| | **Units** | **Reporting Limit** | | | | | | | | |
| **PCB Homolog Groups** | | | | | | | | | | |
| **Total Monochlorobiphenyl** | µg/L | | 27.5 | BDL | 35.5 | 7.7 | 63.1 | 29.4 | BDL | BDL |
| **Total Dichlorobiphenyl** | µg/L | | 9.0 | BDL | 9.3 | 2.0 | 8.6 | 9.7 | 0.03 | BDL |
| **Total Trichlorobiphenyl** | µg/L | | 9.8 | BDL | 8.5 | 3.2 | 9.5 | 9.2 | 0.11 | BDL |
| **Total Tetrachlorobiphenyl** | µg/L | | 3.4 | BDL | 1.0 | 0.4 | 1.1 | 1.5 | 0.05 | BDL |
| **Total Pentachlorobiphenyl** | µg/L | | 0.59 | BDL | 0.18 | 0.09 | 0.25 | 0.22 | 0.03 | BDL |
| **Total Hexachlorobiphenyl** | µg/L | | 0.173 | BDL | 0.048 | 0.027 | 0.065 | 0.032 | 0.004 | BDL |
| **Total Heptachlorobiphenyl** | µg/L | | 0.020 | BDL | 0.005 | 0.003 | 0.006 | 0.003 | BDL | BDL |
| **Total Octachlorobiphenyl** | µg/L | | 0.00135 | BDL | 0.00041 | 0.00031 | 0.00038 | 0.00008 | BDL | BDL |
| **Total Nonachlorobiphenyl** | µg/L | | 0.000052 | BDL | 0.000017 | 0.000018 | BDL | BDL | BDL | BDL |
| **Total Homolog PCB** | µg/L | | 50.5 | BDL | 54.5 | 13.5 | 82.5 | 50.0 | 0.2 | BDL |
| **PCB Congener** | | | | | | | | | | |
| **1** | ng/L | 160 | 27547 | BDL | 35475 | 7691 | 63081 | 29350 | BDL | BDL |
| **3** | ng/L | 93 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **4** | ng/L | 102 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **5** | ng/L | 48 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **6** | ng/L | 39 | 2574 | BDL | 689 | 121 | 587 | 1588 | BDL | BDL |
| **7** | ng/L | 38 | 237 | BDL | 284 | 18 | 127 | 161 | BDL | BDL |
| **8** | ng/L | 38 | 3682 | BDL | 4273 | 553 | 3294 | 4309 | 35 | BDL |
| **9** | ng/L | 39 | 100 | BDL | 182 | 41 | 298 | 214 | BDL | BDL |
| **10** | ng/L | 65 | 2378 | BDL | 3851 | 1309 | 4288 | 3450 | BDL | BDL |
| **12/13** | ng/L | 24 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **14** | ng/L | 23 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **17** | ng/L | 25 | 1600 | BDL | 2144 | 369 | 2452 | 1641 | 37 | BDL |
| **18** | ng/L | 25 | 1580 | BDL | 352 | 71 | 295 | 1196 | 14 | BDL |
| **19** | ng/L | 42 | 3659 | BDL | 4338 | 2344 | 4814 | 4436 | 42 | BDL |
| **20** | ng/L | 11 | cannot be resolved due to mutiple co-elutions | | | | | | | |
| **22** | ng/L | 11 | 26 | BDL | 13 | BDL | 13 | 38 | BDL | BDL |
| **24** | ng/L | 19 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **25** | ng/L | 9 | 336 | BDL | 209 | 32 | 71 | 174 | BDL | BDL |
| **26/29** | ng/L | 10 | 482 | BDL | 167 | 38 | 221 | 297 | 4 | BDL |
| **27** | ng/L | 16 | 398 | BDL | 396 | 153 | 594 | 360 | BDL | BDL |
| **28/31** | ng/L | 9 | 660 | BDL | 320 | 61 | 220 | 312 | 3 | BDL |
| **32** | ng/L | 16 | 1035 | BDL | 528 | 141 | 757 | 709 | 10 | BDL |
| **33** | ng/L | 11 | cannot be resolved due to mutiple co-elutions | | | | | | | |
| **34** | ng/L | 9 | 19 | BDL | 20 | BDL | 31 | 20 | BDL | BDL |
| **35** | ng/L | 6 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **37** | ng/L | 6 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **40** | ng/L | 9 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **41** | ng/L | 9 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **42** | ng/L | 7 | 147 | BDL | 17 | 10 | 18 | 46 | BDL | BDL |

| Sediment | | | 1 | 9 | 13 | 20 | 25 | 27 | 28 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | | | 7 | 9 | 14 | 8 | 12 | 11 | 10 | 13 |
| | **Units** | **Reporting Limit** | | | | | | | | |
| **44** | ng/L | 7 | 346 | BDL | 20 | 7 | 19 | 108 | 8 | BDL |
| **45** | ng/L | 13 | 169 | BDL | 135 | 37 | 164 | 106 | BDL | BDL |
| **46** | ng/L | 13 | 59 | BDL | BDL | BDL | 11 | 24 | BDL | BDL |
| **47** | ng/L | 6 | 313 | BDL | 124 | 62 | 163 | 130 | 11 | BDL |
| **48** | ng/L | 7 | BDL | BDL | 2 | BDL | 4 | BDL | BDL | BDL |
| **49** | ng/L | 6 | 615 | BDL | 130 | 40 | 130 | 255 | 11 | BDL |
| **51** | ng/L | 10 | cannot be resolved due to mutiple co-elutions | | | | | | | |
| **52** | ng/L | 6 | 862 | BDL | 137 | 53 | 128 | 394 | 15 | BDL |
| **53** | ng/L | 10 | 388 | BDL | 182 | BDL | 175 | BDL | BDL | BDL |
| **54** | ng/L | 27 | 183 | BDL | 158 | 172 | 120 | 328 | BDL | BDL |
| **56** | ng/L | 3 | 4 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **59** | ng/L | 5 | 16 | BDL | 10 | 4 | 10 | BDL | BDL | BDL |
| **60** | ng/L | 3 | 4 | BDL | BDL | BDL | 3 | BDL | BDL | BDL |
| **63** | ng/L | 3 | 10 | BDL | 6 | BDL | 10 | 4 | BDL | BDL |
| **64** | ng/L | 5 | 113 | BDL | 43 | 18 | 63 | 43 | 3 | BDL |
| **66** | ng/L | 3 | 8 | BDL | 4 | BDL | 8 | 3 | 2 | BDL |
| **67** | ng/L | 3 | cannot be resolved due to mutiple co-elutions | | | | | | | |
| **69** | ng/L | 4 | 3 | BDL | 6 | 3 | 9 | 3 | BDL | BDL |
| **70** | ng/L | 3 | 8 | BDL | 6 | 1 | 11 | 6 | 2 | BDL |
| **71** | ng/L | 4 | 83 | BDL | 11 | 5 | 16 | 30 | BDL | BDL |
| **73** | ng/L | 4 | 12 | BDL | 5 | 9 | 7 | 8 | BDL | BDL |
| **74** | ng/L | 3 | BDL | BDL | BDL | BDL | 4 | BDL | BDL | BDL |
| **75** | ng/L | 4 | 14 | BDL | 7 | 3 | 8 | BDL | BDL | BDL |
| **77** | ng/L | 2 | BDL | BDL | 0 | BDL | BDL | BDL | BDL | BDL |
| **81** | ng/L | 2 | cannot be resolved due to mutiple co-elutions | | | | | | | |
| **82** | ng/L | 3 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **83** | ng/L | 2 | 17 | BDL | 3 | 1 | 4 | 4 | 0 | BDL |
| **84** | ng/L | 4 | 69 | BDL | 20 | 7 | 27 | 18 | BDL | BDL |
| **85** | ng/L | 2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **87** | ng/L | 2 | cannot be resolved due to mutiple co-elutions | | | | | | | |
| **90/101** | ng/L | 2 | 55 | BDL | 28 | 14 | 34 | 24 | 6 | BDL |
| **91** | ng/L | 3 | 64 | BDL | 22 | 13 | 36 | 22 | 2 | BDL |
| **92** | ng/L | 2 | 72 | BDL | 27 | 14 | 28 | 19 | BDL | BDL |
| **93** | ng/L | 4 | cannot be resolved due to mutiple co-elutions | | | | | | | |
| **95** | ng/L | 3 | 172 | BDL | 47 | 22 | 67 | 90 | 13 | BDL |
| **97** | ng/L | 2 | 2 | BDL | 1 | 0 | 2 | 0 | 1 | BDL |
| **99** | ng/L | 2 | 16 | BDL | 4 | BDL | 9 | 4 | BDL | BDL |
| **100** | ng/L | 2 | cannot be resolved due to mutiple co-elutions | | | | | | | |
| **103** | ng/L | 2 | 19 | BDL | 6 | 4 | 6 | 18 | BDL | BDL |
| **104** | ng/L | 7 | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **105** | ng/L | 1 | 0 | BDL | BDL | BDL | 1 | BDL | 1 | BDL |
| **107** | ng/L | 1 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |

| Sediment | | | 1 | 9 | 13 | 20 | 25 | 27 | 28 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | | | 7 | 9 | 14 | 8 | 12 | 11 | 10 | 13 |
| | **Units** | **Reporting Limit** | | | | | | | | |
| **110** | ng/L | 1 | 76 | BDL | 20 | 8 | 30 | 21 | 3 | BDL |
| **114** | ng/L | 0.9 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **115** | ng/L | 1.3 | cannot be resolved due to mutiple co-elutions | | | | | | | |
| **117** | ng/L | 1.4 | 3.4 | BDL | 2.1 | 2.0 | 1.9 | 0.6 | BDL | BDL |
| **118** | ng/L | 0.7 | 2.1 | BDL | 1.2 | BDL | 2.9 | BDL | BDL | BDL |
| **119** | ng/L | 1.0 | 11.3 | BDL | 3.1 | 1.5 | 3.4 | 2.6 | 0.2 | BDL |
| **122** | ng/L | 0.9 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **123** | ng/L | 0.7 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **124** | ng/L | 0.7 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **126** | ng/L | 0.5 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **128** | ng/L | 0.7 | BDL | BDL | BDL | BDL | 0.3 | BDL | BDL | BDL |
| **129** | ng/L | 0.7 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **130** | ng/L | 0.6 | 1.5 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **131** | ng/L | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **132** | ng/L | 1.0 | 18.4 | BDL | 5.8 | 1.7 | 7.3 | 2.6 | BDL | BDL |
| **134** | ng/L | 1.1 | 5.2 | BDL | 1.8 | BDL | 2.4 | 1.3 | BDL | BDL |
| **135** | ng/L | 0.9 | 14.6 | BDL | 5.5 | 3.5 | 6.1 | 3.5 | 0.8 | BDL |
| **136** | ng/L | 2.5 | 34.6 | BDL | 9.6 | 4.7 | 13.4 | 7.5 | BDL | BDL |
| **137** | ng/L | 0.58 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **138/163** | ng/L | 0.48 | 10.13 | BDL | 3.10 | 1.88 | 4.84 | 2.05 | 0.58 | BDL |
| **141** | ng/L | 0.59 | BDL | BDL | BDL | BDL | 0.43 | BDL | BDL | BDL |
| **144** | ng/L | 0.85 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **146** | ng/L | 0.50 | 6.80 | BDL | 0.89 | 0.53 | 1.70 | 0.97 | BDL | BDL |
| **147** | ng/L | 0.91 | 2.63 | BDL | 0.80 | 2.63 | 0.87 | 0.62 | 0.11 | BDL |
| **149** | ng/L | 0.85 | 48.44 | BDL | 12.03 | 5.80 | 15.96 | 7.65 | 1.27 | BDL |
| **151** | ng/L | 0.91 | 18.60 | BDL | 5.89 | 3.74 | 7.18 | 4.11 | 0.67 | BDL |
| **153** | ng/L | 0.47 | 4.44 | BDL | 0.94 | 0.75 | 1.85 | 0.94 | 0.35 | BDL |
| **154** | ng/L | 0.68 | 7.07 | BDL | 1.80 | 1.49 | 2.05 | 1.08 | BDL | BDL |
| **156** | ng/L | 0.25 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **157** | ng/L | 0.25 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **158** | ng/L | 0.37 | 0.18 | BDL | 0.18 | BDL | 0.41 | BDL | BDL | BDL |
| **164** | ng/L | 0.37 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **165** | ng/L | 0.34 | BDL | BDL | BDL | 0.23 | BDL | BDL | BDL | BDL |
| **167** | ng/L | 0.20 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **169** | ng/L | 0.14 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **170** | ng/L | 0.20 | 0.30 | BDL | 0.11 | 0.06 | 0.14 | BDL | BDL | BDL |
| **171** | ng/L | 0.30 | 0.38 | BDL | 0.14 | BDL | BDL | BDL | BDL | BDL |
| **172** | ng/L | 0.18 | BDL | BDL | BDL | 0.07 | BDL | BDL | BDL | BDL |
| **173** | ng/L | 0.37 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **174** | ng/L | 0.30 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **175** | ng/L | 0.26 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **176** | ng/L | 0.68 | 1.78 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |

| Sediment | | | 1 | 9 | 13 | 20 | 25 | 27 | 28 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | | | 7 | 9 | 14 | 8 | 12 | 11 | 10 | 13 |
| | **Units** | **Reporting Limit** | | | | | | | | |
| **177** | ng/L | 0.32 | 2.80 | BDL | 0.78 | 0.60 | 1.24 | 0.45 | BDL | BDL |
| **178** | ng/L | 0.28 | 2.26 | BDL | 0.80 | 0.68 | 0.95 | 0.57 | BDL | BDL |
| **179** | ng/L | 0.73 | 6.09 | BDL | 1.64 | BDL | 2.16 | BDL | BDL | BDL |
| **180** | ng/L | 0.16 | 0.73 | BDL | 0.27 | 0.13 | BDL | 0.16 | BDL | BDL |
| **183** | ng/L | 0.24 | 0.52 | BDL | 0.17 | 0.11 | 0.20 | 0.13 | BDL | BDL |
| **185** | ng/L | 0.30 | 0.07 | BDL | 0.03 | BDL | BDL | BDL | BDL | BDL |
| **187** | ng/L | 0.26 | 5.28 | BDL | 1.40 | 1.23 | 1.75 | 1.21 | BDL | BDL |
| **189** | ng/L | 0.07 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **190** | ng/L | 0.13 | 0.09 | BDL | 0.01 | 0.02 | BDL | BDL | BDL | BDL |
| **191** | ng/L | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **193** | ng/L | 0.11 | 0.09 | BDL | 0.02 | BDL | BDL | BDL | BDL | BDL |
| **194** | ng/L | 0.06 | 0.09 | BDL | BDL | 0.03 | 0.03 | 0.02 | BDL | BDL |
| **195** | ng/L | 0.10 | 0.06 | BDL | 0.03 | BDL | BDL | BDL | BDL | BDL |
| **196** | ng/L | 0.08 | 0.09 | BDL | 0.03 | 0.03 | 0.03 | BDL | BDL | BDL |
| **197** | ng/L | 0.19 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **199** | ng/L | 0.09 | 0.30 | BDL | 0.07 | 0.07 | 0.10 | 0.06 | BDL | BDL |
| **200** | ng/L | 0.24 | 0.19 | BDL | 0.06 | BDL | BDL | BDL | BDL | BDL |
| **201** | ng/L | 0.20 | 0.09 | BDL | 0.07 | BDL | BDL | BDL | BDL | BDL |
| **202** | ng/L | 0.09 | 0.18 | BDL | 0.06 | 0.08 | 0.08 | BDL | BDL | BDL |
| **203** | ng/L | 0.22 | 0.35 | BDL | 0.10 | 0.10 | 0.13 | BDL | BDL | BDL |
| **205** | ng/L | 0.08 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **206** | ng/L | 0.03 | BDL | BDL | 0.02 | 0.02 | BDL | BDL | BDL | BDL |
| **207** | ng/L | 0.07 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **208** | ng/L | 0.07 | 0.05 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **209** | ng/L | 0.0236 | 0.0047 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |

| Sediment | | | 2 | 4 | 10 | 13 | 14 | 15 | 16 | 17 | 22 | 23 | 24 | 26 | 27 | 28 | 29 | 20 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | | | 2 | 4 | 10 | 13 | 14 | 15 | 16 | 17 | 22 | 23 | 24 | 26 | 27 | 28 | 29 | 20B | 33B |
| | Units | Reporting Limit | | | | | | | | | | | | | | | | | |
| **PCB Homolog Groups** | | | | | | | | | | | | | | | | | | | |
| **Total Monochlorobiphenyl** | µg/L | | 9 | BDL | BDL | 10 | 48 | BDL | BDL | 32 | BDL | 4 | BDL | BDL | 8 | BDL | BDL | 8 | BDL |
| **Total Dichlorobiphenyl** | ng/L | | 4 | BDL | BDL | 6 | 13 | 0 | BDL | 16 | BDL | 2 | 0 | BDL | 6 | 0 | BDL | 3 | BDL |
| **Total Trichlorobiphenyl** | µg/L | | 4 | BDL | BDL | 8 | 11 | 0 | 0 | 15 | BDL | 2 | 0 | BDL | 7 | 0 | BDL | 4 | BDL |
| **Total Tetrachlorobiphenyl** | ng/L | | 0.67 | BDL | BDL | 1.12 | 2.37 | 0.12 | 0.04 | 2.50 | BDL | 0.37 | 0.13 | BDL | 1.78 | 0.12 | BDL | 0.71 | BDL |
| **Total Pentachlorobiphenyl** | µg/L | | 0.11 | BDL | BDL | 0.15 | 0.27 | 0.02 | 0.01 | 0.36 | BDL | 0.06 | 0.02 | BDL | 0.17 | 0.01 | BDL | 0.07 | BDL |
| **Total Hexachlorobiphenyl** | ng/L | | 0.021 | BDL | BDL | 0.033 | 0.064 | 0.003 | 0.001 | 0.085 | BDL | 0.009 | 0.003 | BDL | 0.023 | 0.001 | BDL | 0.019 | BDL |
| **Total Heptachlorobiphenyl** | µg/L | | 0.002 | BDL | BDL | 0.004 | 0.008 | 0.0002 | BDL | 0.011 | BDL | 0.001 | BDL | BDL | 0.003 | BDL | BDL | 0.002 | BDL |
| **Total Octachlorobiphenyl** | ng/L | | 0.00015 | BDL | BDL | 0.000323 | 0.001 | BDL | BDL | 0.001 | BDL | 0.00002 | BDL | BDL | 0.0001 | BDL | BDL | 0.0002 | BDL |
| **Total Nonachlorobiphenyl** | µg/L | | 0.00001 | BDL | BDL | 0.000009 | 0.000009 | BDL | 0.00003 | 0.00003 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **Total Homolog PCB** | µg/L | | 18.2 | BDL | BDL | 25.7 | 74.8 | 0.9 | 0.1 | 65.1 | BDL | 9.2 | 0.9 | BDL | 23.3 | 0.2 | BDL | 16.0 | BDL |
| | | | | | | | | | | | | | | | | | | | |
| **PCB Congeners** | | | | | | | | | | | | | | | | | | | |
| **1** | ng/L | 96 | 8836 | BDL | BDL | 10102 | 47758 | BDL | BDL | 31561 | BDL | 4493 | BDL | BDL | 7577 | BDL | BDL | 8017 | BDL |
| **3** | ng/L | 56 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **4** | ng/L | 61 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **5** | ng/L | 29 | 16 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 12 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **6** | ng/L | 23 | 412 | BDL | BDL | 548 | 1961 | 141 | BDL | 1839 | BDL | 192 | 33 | BDL | 1218 | BDL | BDL | 248 | BDL |
| **7** | ng/L | 23 | 100 | BDL | BDL | 218 | 321 | BDL | BDL | 445 | BDL | 42 | 8 | BDL | 118 | BDL | BDL | 97 | BDL |
| **8** | ng/L | 23 | 1504 | BDL | BDL | 3259 | 4007 | 179 | BDL | 8750 | BDL | 807 | 147 | BDL | 3045 | 20 | BDL | 1025 | BDL |
| **9** | ng/L | 23 | 97 | BDL | BDL | 134 | 423 | BDL | BDL | 449 | BDL | 65 | 8 | BDL | 153 | BDL | BDL | 76 | BDL |
| **10** | ng/L | 39 | 2035 | BDL | BDL | 2009 | 5862 | 27 | BDL | 3808 | BDL | 966 | 109 | BDL | 1501 | BDL | BDL | 1668 | BDL |
| **12/13** | ng/L | 15 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 9 | BDL | BDL | BDL | BDL | BDL | 29 | BDL |
| **14** | ng/L | 14 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **15/16** | ng/L | 15 | 191 | BDL | BDL | 264 | 485 | 58 | BDL | 459 | BDL | 100 | 24 | BDL | 335 | BDL | BDL | 73 | BDL |
| **17** | ng/L | 15 | 678 | BDL | BDL | 1972 | 1535 | 63 | 16 | 2837 | BDL | 339 | 83 | BDL | 1308 | 24 | BDL | 534 | BDL |
| **18** | ng/L | 15 | 188 | BDL | BDL | 217 | 1006 | 118 | 17 | 877 | BDL | 103 | 37 | BDL | 1059 | BDL | BDL | 108 | BDL |
| **19** | ng/L | 25 | 2491 | BDL | BDL | 3872 | 6287 | 39 | 17 | 7081 | BDL | 1177 | 183 | BDL | 3242 | 24 | BDL | 2764 | BDL |
| **20** | ng/L | 7 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| **22** | ng/L | 7 | 16 | BDL | BDL | 5 | 23 | 4 | BDL | 27 | BDL | 9 | 4 | BDL | 32 | BDL | BDL | BDL | BDL |
| **24** | ng/L | 12 | 9 | BDL | BDL | 9 | 25 | BDL | BDL | 13 | BDL | 4 | BDL | BDL | 4 | BDL | BDL | 3 | BDL |
| **25** | ng/L | 5 | 33 | BDL | BDL | 183 | 170 | 14 | BDL | 330 | BDL | 29 | 8 | BDL | 156 | BDL | BDL | 41 | BDL |
| **26/29** | ng/L | 6 | 128 | BDL | BDL | 219 | 333 | 21 | BDL | 390 | BDL | 67 | 14 | BDL | 247 | 2 | BDL | 75 | BDL |
| **27** | ng/L | 9 | 240 | BDL | BDL | 346 | 639 | 7 | BDL | 768 | BDL | 122 | 19 | BDL | 283 | BDL | BDL | 175 | BDL |
| **28/31** | ng/L | 5 | 202 | BDL | BDL | 519 | 598 | 42 | 3 | 1226 | BDL | 118 | 34 | BDL | 465 | 7 | BDL | 123 | BDL |
| **32** | ng/L | 9 | 167 | BDL | BDL | 492 | 612 | 19 | BDL | 1197 | BDL | 110 | 27 | BDL | 534 | 6 | BDL | 160 | BDL |
| **33** | ng/L | 6 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| **34** | ng/L | 6 | 12 | BDL | BDL | 17 | 39 | BDL | BDL | 47 | BDL | 9 | 2 | BDL | 13 | BDL | BDL | 8 | BDL |
| **35** | ng/L | 4 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **37** | ng/L | 4 | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| **40/71** | ng/L | 6 | 43 | BDL | BDL | 52 | 108 | 12 | BDL | 139 | BDL | 21 | 11 | BDL | 87 | BDL | BDL | 23 | BDL |
| **41** | ng/L | 5 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **42** | ng/L | 4 | 13 | BDL | BDL | 11 | 43 | 6 | 3 | 33 | BDL | 6 | 4 | BDL | 39 | BDL | BDL | 5 | BDL |
| **44/47** | ng/L | 4 | 121 | BDL | BDL | 163 | 269 | 27 | 5 | 223 | BDL | 64 | 22 | BDL | 183 | 10 | BDL | 73 | BDL |
| **45** | ng/L | 8 | 74 | BDL | BDL | 123 | 185 | 6 | BDL | 221 | BDL | 39 | 4 | BDL | 86 | BDL | BDL | 34 | BDL |
| **46** | ng/L | 8 | 11 | BDL | BDL | BDL | 31 | BDL | BDL | 25 | BDL | 5 | BDL | BDL | 19 | BDL | BDL | 4 | BDL |
| **48** | ng/L | 4 | 5 | BDL | BDL | 7 | 9 | BDL | BDL | 13 | BDL | 4 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **49** | ng/L | 4 | 58 | BDL | BDL | 99 | 189 | 17 | 5 | 198 | BDL | 31 | 14 | BDL | 188 | 5 | BDL | 37 | BDL |
| **51** | ng/L | 6 | 47 | BDL | BDL | 111 | 274 | BDL | BDL | 221 | BDL | 20 | 10 | BDL | 139 | 3 | BDL | 84 | BDL |
| **52** | ng/L | 4 | 82 | BDL | BDL | 123 | 303 | 28 | 17 | 330 | BDL | 45 | 19 | BDL | 309 | 8 | BDL | 51 | BDL |
| **53** | ng/L | 6 | 77 | BDL | BDL | 158 | 380 | 8 | 5 | 481 | BDL | 47 | 17 | BDL | 300 | 5 | BDL | 125 | BDL |
| **54** | ng/L | 16 | 72 | BDL | BDL | 151 | 383 | BDL | BDL | 393 | BDL | 32 | 9 | BDL | 319 | BDL | BDL | 214 | BDL |
| **56** | ng/L | 2 | 7 | BDL | BDL | 8 | BDL | BDL | BDL | 3 | BDL | 1 | 1 | BDL | 2 | BDL | BDL | BDL | BDL |
| **59/75** | ng/L | 3 | BDL | BDL | BDL | 24 | 36 | 2 | BDL | 39 | BDL | 7 | 1 | BDL | 18 | BDL | BDL | 10 | BDL |
| **60** | ng/L | 2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **63** | ng/L | 2 | 3 | BDL | BDL | 5 | 7 | BDL | BDL | 7 | BDL | 3 | 1 | BDL | 4 | BDL | BDL | 2 | BDL |
| **64/71** | ng/L | 3 | 43 | BDL | BDL | 66 | 118 | 12 | 4 | 151 | BDL | 33 | 16 | BDL | 78 | 85 | BDL | 33 | BDL |

| Sediment | | | 2 | 4 | 10 | 13 | 14 | 15 | 16 | 17 | 22 | 23 | 24 | 26 | 27 | 28 | 29 | 20 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | | | 2 | 4 | 10 | 13 | 14 | 15 | 16 | 17 | 22 | 23 | 24 | 26 | 27 | 28 | 29 | 20B | 33B |
| | Units | Reporting Limit | | | | | | | | | | | | | | | | | |
| 66 | ng/L | | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| 67 | ng/L | | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| 69 | ng/L | 2.26 | 2.59 | BDL | BDL | 5.15 | 7.53 | BDL | BDL | 6.87 | BDL | 1.60 | BDL | BDL | 2.16 | BDL | BDL | 2.19 | BDL |
| 70 | ng/L | 1.55 | 7.44 | BDL | BDL | 4.32 | 4.06 | 0.90 | BDL | 4.07 | BDL | 3.99 | 2.09 | BDL | 4.69 | 0.77 | BDL | 0.78 | BDL |
| 73 | ng/L | 2.26 | 2.89 | BDL | BDL | 4.70 | 12.59 | BDL | BDL | 7.33 | BDL | BDL | BDL | BDL | 4.78 | BDL | BDL | 4.94 | BDL |
| 74 | ng/L | 1.55 | 2.94 | BDL | BDL | 1.26 | 11.50 | 0.32 | BDL | 6.50 | BDL | 1.46 | 0.76 | BDL | 0.80 | BDL | BDL | 5.78 | BDL |
| 77 | ng/L | 1.06 | 0.46 | BDL | BDL | BDL | 0.70 | BDL | BDL | 1.20 | BDL | BDL | BDL | BDL | 0.49 | BDL | BDL | BDL | BDL |
| 81 | ng/L | | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| 82 | ng/L | 1.55 | 0.91 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 83 | ng/L | 1.34 | 1.40 | BDL | BDL | 1.87 | 4.82 | BDL | BDL | 7.29 | BDL | 0.68 | 0.23 | BDL | 2.72 | BDL | BDL | 0.76 | BDL |
| 84 | ng/L | 2.26 | 16.75 | BDL | BDL | 18.13 | 34.86 | 1.88 | BDL | 35.53 | BDL | 6.61 | 1.50 | BDL | BDL | BDL | BDL | BDL | BDL |
| 85 | ng/L | 1.22 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 87 | ng/L | | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| 88 | ng/L | 2.11 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 90/101 | ng/L | 1.03 | 10.64 | BDL | BDL | 15.32 | 30.47 | 1.37 | 0.59 | 29.76 | BDL | 6.24 | 2.11 | BDL | 12.79 | 1.17 | BDL | 9.72 | BDL |
| 91 | ng/L | 1.83 | 10.13 | BDL | BDL | 16.19 | 29.52 | 0.99 | 0.55 | 32.75 | BDL | 5.06 | 1.39 | BDL | 14.87 | 0.58 | BDL | 9.46 | BDL |
| 92 | ng/L | 1.08 | 10.49 | BDL | BDL | 22.30 | 40.66 | 1.43 | BDL | 43.19 | BDL | 5.51 | 0.94 | BDL | 14.20 | 0.83 | BDL | 10.42 | BDL |
| 93 | ng/L | | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| 95 | ng/L | 1.83 | 40.51 | BDL | BDL | 50.15 | 78.95 | 6.88 | 3.54 | 137.36 | BDL | 20.86 | 5.65 | BDL | 84.86 | 3.14 | BDL | 18.25 | BDL |
| 97 | ng/L | 1.25 | 1.57 | BDL | BDL | 0.38 | 0.78 | BDL | BDL | 1.69 | BDL | 0.82 | 0.54 | BDL | 0.38 | BDL | BDL | BDL | BDL |
| 99 | ng/L | 0.99 | 3.17 | BDL | BDL | 2.44 | 6.72 | 0.50 | BDL | 10.38 | BDL | 1.78 | 0.79 | BDL | 2.14 | BDL | BDL | 0.72 | BDL |
| 100 | ng/L | 1.44 | 1.17 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 3.02 | BDL | BDL | 6.18 | BDL |
| 103 | ng/L | 1.48 | 2.08 | BDL | BDL | 3.87 | 6.85 | BDL | BDL | 21.29 | BDL | 0.73 | BDL | BDL | 9.64 | BDL | BDL | 2.78 | BDL |
| 104 | ng/L | 3.90 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 105 | ng/L | 0.53 | 1.39 | BDL | BDL | 1.56 | 4.68 | 0.60 | BDL | 6.25 | BDL | 0.84 | 0.46 | BDL | 1.46 | 0.39 | BDL | 0.68 | BDL |
| 107 | ng/L | 0.46 | BDL | BDL | BDL | 0.42 | 0.52 | BDL | BDL | 0.57 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 110 | ng/L | 0.80 | 11.31 | BDL | BDL | 14.87 | 21.72 | 1.77 | 0.75 | 30.25 | BDL | 5.74 | 1.96 | BDL | 16.46 | 0.95 | BDL | 5.78 | BDL |
| 114 | ng/L | 0.53 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 115 | ng/L | | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| 117 | ng/L | 0.84 | 0.67 | BDL | BDL | 2.03 | 1.83 | 0.99 | BDL | 2.04 | BDL | 1.07 | 0.69 | BDL | 1.20 | BDL | BDL | 1.55 | BDL |
| 118 | ng/L | 0.43 | 1.89 | BDL | BDL | 0.79 | 0.76 | 0.20 | BDL | 1.67 | BDL | 0.83 | 0.43 | BDL | 0.48 | 0.32 | BDL | 0.27 | BDL |
| 119 | ng/L | 0.63 | 0.79 | BDL | BDL | 1.79 | 3.23 | BDL | BDL | 4.03 | BDL | 0.43 | BDL | BDL | 1.80 | BDL | BDL | 1.11 | BDL |
| 122 | ng/L | 0.55 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 123 | ng/L | 0.43 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 124 | ng/L | 0.44 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 128 | ng/L | 0.4 | 0.165 | BDL | BDL | BDL | BDL | BDL | BDL | 0.189 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 129 | ng/L | 0.4 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 130 | ng/L | 0.4 | BDL | BDL | BDL | BDL | 0.489 | BDL | BDL | 0.937 | BDL | BDL | BDL | BDL | 0.137 | BDL | BDL | BDL | BDL |
| 131 | ng/L | 0.6 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 132 | ng/L | 0.6 | 2.574 | BDL | BDL | 3.504 | 4.533 | 1.133 | 0.484 | 5.672 | BDL | 1.278 | 0.672 | BDL | 1.764 | 0.532 | BDL | 1.567 | BDL |
| 134 | ng/L | 0.7 | 0.848 | BDL | BDL | 1.127 | 1.601 | BDL | BDL | 2.193 | BDL | 0.400 | BDL | BDL | 0.834 | BDL | BDL | 0.578 | BDL |
| 135 | ng/L | 0.5 | 3.365 | BDL | BDL | 5.202 | 11.223 | 0.165 | BDL | 13.100 | BDL | 1.123 | 0.104 | BDL | 3.325 | BDL | BDL | 2.862 | BDL |
| 136 | ng/L | 1.5 | 3.173 | BDL | BDL | 6.090 | 11.246 | BDL | BDL | 16.785 | BDL | 1.559 | 0.462 | BDL | 4.998 | BDL | BDL | 2.927 | BDL |
| 137 | ng/L | 0.3 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 138/163 | ng/L | 0.3 | 1.598 | BDL | BDL | 1.961 | 3.109 | 0.147 | 0.121 | 4.534 | BDL | 0.643 | 0.211 | BDL | 1.369 | 0.170 | BDL | 1.084 | BDL |
| 141 | ng/L | 0.4 | 0.302 | BDL | BDL | 0.287 | BDL | 0.170 | BDL | 0.360 | BDL | 0.161 | BDL | BDL | BDL | BDL | BDL | 0.190 | BDL |
| 144 | ng/L | 0.5 | 1.176 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 146 | ng/L | 0.3 | 0.301 | BDL | BDL | 0.492 | 2.460 | 0.121 | BDL | 3.193 | BDL | 0.211 | 0.060 | BDL | 0.663 | BDL | BDL | 0.331 | BDL |
| 147 | ng/L | 0.5 | 0.273 | BDL | BDL | 0.491 | 1.272 | BDL | BDL | 1.090 | BDL | BDL | BDL | BDL | 0.363 | 0.036 | BDL | 1.599 | BDL |
| 149 | ng/L | 0.5 | 3.689 | BDL | BDL | 7.191 | 13.435 | 0.829 | 0.389 | 19.493 | BDL | 2.031 | 0.592 | BDL | 5.212 | 0.355 | BDL | 3.604 | BDL |
| 151 | ng/L | 0.5 | 2.435 | BDL | BDL | 4.161 | 8.521 | 0.400 | BDL | 11.101 | BDL | 1.036 | 0.236 | BDL | 2.871 | BDL | BDL | 2.562 | BDL |
| 153 | ng/L | 0.3 | 0.973 | BDL | BDL | 0.917 | 2.310 | 0.253 | 0.122 | 3.479 | BDL | 0.458 | 0.262 | BDL | 0.786 | 0.187 | BDL | 0.486 | BDL |
| 154 | ng/L | 0.4 | BDL | BDL | BDL | 1.326 | 3.403 | BDL | BDL | 3.267 | BDL | 0.314 | BDL | BDL | 0.902 | BDL | BDL | 0.957 | BDL |
| 156 | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 157 | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 158 | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 165 | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |

| Sediment | | | 2 | 4 | 10 | 13 | 14 | 15 | 16 | 17 | 22 | 23 | 24 | 26 | 27 | 28 | 29 | 20 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | | | 2 | 4 | 10 | 13 | 14 | 15 | 16 | 17 | 22 | 23 | 24 | 26 | 27 | 28 | 29 | 20B | 33B |
| | Units | Reporting Limit | | | | | | | | | | | | | | | | | |
| **167** | ng/L | 0.1 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **170** | ng/L | 0.1 | 0.045 | BDL | BDL | 0.110 | 0.106 | BDL | BDL | 0.371 | BDL | BDL | BDL | BDL | 0.082 | BDL | BDL | 0.045 | BDL |
| **171** | ng/L | 0.2 | BDL | BDL | BDL | BDL | 0.083 | BDL | BDL | 0.185 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **172** | ng/L | 0.1 | BDL | BDL | BDL | 0.060 | BDL | BDL | BDL | 0.141 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **173** | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **174** | ng/L | 0.2 | BDL | BDL | BDL | BDL | 0.286 | BDL | BDL | 0.626 | BDL | 0.101 | BDL | BDL | 0.137 | BDL | BDL | BDL | BDL |
| **175** | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **176** | ng/L | 0.4 | BDL | BDL | BDL | 0.191 | 0.519 | BDL | BDL | 0.724 | BDL | BDL | BDL | BDL | 0.164 | BDL | BDL | BDL | BDL |
| **177** | ng/L | 0.2 | BDL | BDL | BDL | 0.576 | 1.165 | BDL | BDL | 1.555 | BDL | 0.154 | BDL | BDL | 0.358 | BDL | BDL | 0.365 | BDL |
| **178** | ng/L | 0.2 | 0.216 | BDL | BDL | 0.477 | 0.827 | BDL | BDL | 1.121 | BDL | BDL | BDL | BDL | 0.377 | BDL | BDL | 0.389 | BDL |
| **179** | ng/L | 0.4 | 0.660 | BDL | BDL | 1.321 | 2.231 | BDL | BDL | 3.214 | BDL | 0.308 | BDL | BDL | 0.690 | BDL | BDL | 0.895 | BDL |
| **180** | ng/L | 0.1 | 0.099 | BDL | BDL | 0.135 | 0.244 | 0.033 | BDL | 0.557 | BDL | 0.063 | BDL | BDL | 0.135 | BDL | BDL | 0.082 | BDL |
| **183** | ng/L | 0.1 | 0.053 | BDL | BDL | 0.077 | 0.140 | BDL | BDL | 0.327 | BDL | BDL | BDL | BDL | 0.087 | BDL | BDL | 0.058 | BDL |
| **185** | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.072 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **187** | ng/L | 0.2 | 0.538 | BDL | BDL | 0.894 | 1.882 | 0.119 | BDL | 2.424 | BDL | 0.264 | BDL | BDL | 0.589 | BDL | BDL | 0.625 | BDL |
| **189** | ng/L | 0.04 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **190** | ng/L | 0.08 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.034 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **191** | ng/L | 0.06 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **193** | ng/L | 0.07 | BDL | BDL | BDL | BDL | 0.036 | BDL | BDL | 0.054 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **194** | ng/L | 0.03 | BDL | BDL | BDL | 0.013 | 0.027 | BDL | BDL | 0.050 | BDL | BDL | BDL | BDL | 0.014 | BDL | BDL | BDL | BDL |
| **195** | ng/L | 0.06 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.039 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **196** | ng/L | 0.05 | BDL | BDL | BDL | BDL | 0.041 | BDL | BDL | 0.040 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **197** | ng/L | 0.11 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **199** | ng/L | 0.05 | 0.036 | BDL | BDL | 0.039 | 0.080 | BDL | BDL | 0.130 | BDL | 0.020 | BDL | BDL | 0.034 | BDL | BDL | 0.027 | BDL |
| **200** | ng/L | 0.14 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **201** | ng/L | 0.12 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **202** | ng/L | 0.05 | 0.116 | BDL | BDL | 0.201 | 0.414 | BDL | BDL | 0.533 | BDL | BDL | BDL | BDL | 0.025 | BDL | BDL | 0.130 | BDL |
| **203** | ng/L | 0.13 | BDL | BDL | BDL | 0.070 | 0.088 | BDL | BDL | 0.158 | BDL | BDL | BDL | BDL | 0.057 | BDL | BDL | BDL | BDL |
| **205** | ng/L | 0.05 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **206** | ng/L | 0.02 | 0.008 | BDL | BDL | BDL | 0.009 | BDL | BDL | 0.013 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **207** | ng/L | 0.04 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **208** | ng/L | 0.04 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.019 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **209** | ng/L | 0.01 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |

| Sediment | | | 2 | 4 | 10 | 13 | 14 | 15 | 16 | 17 | 22 | 23 | 24 | 26 | 27 | 28 | 29 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | | | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| | **Units** | **Reporting Limit** | | | | | | | | | | | | | | | | |
| **PCB Homolog Groups** | | | | | | | | | | | | | | | | | | |
| **Total Monochlorobiphenyl** | µg/L | | 4.3 | BDL | BDL | 15.9 | 35.5 | BDL | BDL | 21.3 | BDL | 7.8 | 0.3 | BDL | 6.7 | BDL | BDL | BDL |
| **Total Dichlorobiphenyl** | µg/L | | 3.01 | BDL | BDL | 6.35 | 15.30 | 0.23 | BDL | 17.16 | BDL | 2.85 | 0.43 | BDL | 6.95 | 0.02 | BDL | BDL |
| **Total Trichlorobiphenyl** | µg/L | | 3.59 | BDL | BDL | 6.93 | 16.83 | 0.21 | 0.07 | 18.59 | BDL | 2.86 | 0.51 | BDL | 8.56 | 0.09 | BDL | BDL |
| **Total Tetrachlorobiphenyl** | µg/L | | 0.78 | BDL | BDL | 1.17 | 3.62 | 0.07 | 0.06 | 3.72 | BDL | 0.62 | 0.14 | BDL | 2.54 | 0.05 | BDL | BDL |
| **Total Pentachlorobiphenyl** | µg/L | | 0.13 | BDL | BDL | 0.16 | 0.40 | 0.01 | 0.02 | 0.49 | BDL | 0.12 | 0.02 | BDL | 0.28 | 0.01 | BDL | BDL |
| **Total Hexachlorobiphenyl** | µg/L | | 0.0236 | BDL | BDL | 0.0429 | 0.0991 | 0.0013 | 0.0055 | 0.1152 | BDL | 0.0251 | 0.0039 | BDL | 0.0375 | 0.0026 | BDL | BDL |
| **Total Heptachlorobiphenyl** | µg/L | | 0.0025 | BDL | BDL | 0.0051 | 0.0114 | 0.0001 | 0.0009 | 0.0135 | BDL | 0.0033 | 0.0002 | BDL | 0.0040 | 0.0004 | BDL | BDL |
| **Total Octachlorobiphenyl** | µg/L | | 0.0003 | BDL | BDL | 0.0002 | 0.0004 | BDL | BDL | 0.0011 | BDL | 0.0001 | BDL | BDL | 0.0001 | BDL | BDL | BDL |
| **Total Nonachlorobiphenyl** | µg/L | | 0.00001 | BDL | BDL | 0.00002 | 0.00002 | BDL | 0.00003 | 0.00003 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **Total Homolog PCB** | µg/L | | 11.8 | BDL | BDL | 30.5 | 71.8 | 0.5 | 0.2 | 61.4 | BDL | 14.2 | 1.4 | BDL | 25.0 | 0.2 | BDL | BDL |
| | | | | | | | | | | | | | | | | | | |
| **PCB Congeners** | | | | | | | | | | | | | | | | | | |
| **1** | ng/L | 96 | 4271 | BDL | BDL | 15871 | 35549 | BDL | BDL | 21336 | BDL | 7750 | 288 | BDL | 6652 | BDL | BDL | BDL |
| **3** | ng/L | 56 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **4** | ng/L | 61 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **5** | ng/L | 29 | 17 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 25 | BDL | BDL | BDL | BDL | BDL | BDL |
| **6** | ng/L | 23 | 251 | BDL | BDL | 508 | 2282 | 64 | BDL | 2125 | BDL | 236 | 42 | BDL | 1260 | BDL | BDL | BDL |
| **7** | ng/L | 23 | 56 | BDL | BDL | 198 | 384 | 7 | BDL | 577 | BDL | 66 | 9 | BDL | 136 | BDL | BDL | BDL |
| **8** | ng/L | 23 | 1061 | BDL | BDL | 2996 | 4895 | 114 | BDL | 9113 | BDL | 1052 | 178 | BDL | 3248 | 22 | BDL | BDL |
| **9** | ng/L | 23 | 66 | BDL | BDL | 144 | 523 | BDL | BDL | 574 | BDL | 79 | 8 | BDL | 172 | BDL | BDL | BDL |
| **10** | ng/L | 39 | 1399 | BDL | BDL | 2215 | 6618 | BDL | BDL | 4041 | BDL | 1241 | 162 | BDL | 1738 | BDL | BDL | BDL |
| **12/13** | ng/L | 15 | 10 | BDL | BDL | 19 | BDL | BDL | BDL | 61 | BDL | 16 | BDL | BDL | BDL | BDL | BDL | BDL |
| **14** | ng/L | 14 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **15/16** | ng/L | 15 | 155 | BDL | BDL | 269 | 593 | 40 | BDL | 668 | BDL | 133 | 32 | BDL | 395 | BDL | BDL | BDL |
| **17** | ng/L | 15 | 593 | BDL | BDL | 1824 | 2288 | 42 | 18 | 3688 | BDL | 485 | 118 | BDL | 1609 | 19 | BDL | BDL |
| **18** | ng/L | 15 | 171 | BDL | BDL | 235 | 1483 | 78 | 25 | 1207 | BDL | 166 | 45 | BDL | 1266 | 11 | BDL | BDL |
| **19** | ng/L | 25 | 2049 | BDL | BDL | 3299 | 9288 | 26 | 17 | 8448 | BDL | 1586 | 226 | BDL | 3614 | 32 | BDL | BDL |
| **20** | ng/L | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| **22** | ng/L | 7 | 18 | BDL | BDL | 14 | 28 | 3 | BDL | 33 | BDL | 14 | 3 | BDL | 40 | BDL | BDL | BDL |
| **24** | ng/L | 12 | 6 | BDL | BDL | 6 | 28 | BDL | BDL | BDL | BDL | 7 | BDL | BDL | BDL | BDL | BDL | BDL |
| **25** | ng/L | 5 | 54 | BDL | BDL | 161 | 270 | 9 | BDL | 441 | BDL | 44 | 10 | BDL | 203 | 2 | BDL | BDL |
| **26/29** | ng/L | 6 | 83 | BDL | BDL | 123 | 393 | 11 | 2 | 445 | BDL | 71 | 12 | BDL | 242 | 3 | BDL | BDL |
| **27** | ng/L | 9 | 235 | BDL | BDL | 316 | 1053 | 4 | 2 | 988 | BDL | 178 | 21 | BDL | 338 | 3 | BDL | BDL |
| **28/31** | ng/L | 5 | 218 | BDL | BDL | 494 | 1027 | 25 | 4 | 1663 | BDL | 183 | 41 | BDL | 576 | 9 | BDL | BDL |
| **32** | ng/L | 9 | 150 | BDL | BDL | 437 | 899 | 11 | 4 | 1612 | BDL | 110 | 37 | BDL | 648 | 8 | BDL | BDL |
| **33** | ng/L | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| **34** | ng/L | 6 | 14 | BDL | BDL | 17 | 69 | BDL | BDL | 62 | BDL | 11 | BDL | BDL | 21 | BDL | BDL | BDL |
| **35** | ng/L | 4 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **37** | ng/L | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| **40/71** | ng/L | 6 | 49 | BDL | BDL | 48 | 168 | 8 | BDL | 204 | BDL | 34 | 10 | BDL | 121 | BDL | BDL | BDL |
| **41** | ng/L | 5 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **42** | ng/L | 4 | 15 | BDL | BDL | 13 | 66 | 5 | 5 | BDL | BDL | 11 | 4 | BDL | 56 | 3 | BDL | BDL |
| **44/47** | ng/L | 4 | 133 | BDL | BDL | 167 | 403 | 15 | 11 | 331 | BDL | 118 | 25 | BDL | 265 | 12 | BDL | BDL |
| **45** | ng/L | 8 | 65 | BDL | BDL | 132 | 296 | BDL | BDL | 327 | BDL | 62 | 6 | BDL | 140 | BDL | BDL | BDL |
| **46** | ng/L | 8 | 11 | BDL | BDL | 7 | 58 | BDL | BDL | 31 | BDL | 8 | BDL | BDL | 31 | BDL | BDL | BDL |
| **48** | ng/L | 4 | 6 | BDL | BDL | BDL | 10 | BDL | BDL | 19 | BDL | 6 | 1 | BDL | BDL | BDL | BDL | BDL |
| **49** | ng/L | 4 | 68 | BDL | BDL | 107 | 314 | 9 | 12 | 296 | BDL | 57 | 14 | BDL | 267 | 6 | BDL | BDL |
| **51** | ng/L | 6 | 64 | BDL | BDL | 107 | 365 | BDL | BDL | 370 | BDL | 36 | 9 | BDL | 195 | 4 | BDL | BDL |
| **52** | ng/L | 4 | 90 | BDL | BDL | 122 | 435 | 18 | 30 | 481 | BDL | 70 | 22 | BDL | 426 | 11 | BDL | BDL |
| **53** | ng/L | 6 | 98 | BDL | BDL | 158 | 559 | BDL | BDL | 672 | BDL | 78 | 20 | BDL | 427 | 7 | BDL | BDL |
| **54** | ng/L | 16 | 75 | BDL | BDL | 185 | 626 | BDL | BDL | 667 | BDL | 51 | 11 | BDL | 453 | BDL | BDL | BDL |
| **56** | ng/L | 2 | 3 | BDL | BDL | BDL | 7 | BDL | BDL | BDL | BDL | 2 | 1 | BDL | 3 | BDL | BDL | BDL |
| **59/75** | ng/L | 3 | 15 | BDL | BDL | 25 | 56 | BDL | BDL | 61 | BDL | 14 | 1 | BDL | 29 | BDL | BDL | BDL |
| **60** | ng/L | 2 | 1 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 2 | BDL | BDL | BDL | BDL | BDL | BDL |
| **63** | ng/L | 2 | 4 | BDL | BDL | 5 | 11 | BDL | BDL | 11 | BDL | 3 | BDL | BDL | 6 | BDL | BDL | BDL |
| **64/71** | ng/L | 3 | 57 | BDL | BDL | 72 | 204 | 11 | 5 | 204 | BDL | 51 | 12 | BDL | 108 | 6 | BDL | BDL |
| **66** | ng/L | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| **67** | ng/L | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| **69** | ng/L | 2.26 | 4 | BDL | BDL | 6 | 14 | BDL | BDL | 11 | BDL | 3 | BDL | BDL | 3 | BDL | BDL | BDL |
| **70** | ng/L | 1.55 | 10 | BDL | BDL | 5 | 7 | 1 | 0 | 6 | BDL | 7 | 2 | BDL | 6 | 1 | BDL | BDL |
| **73** | ng/L | 2.26 | 4 | BDL | BDL | 11 | 19 | BDL | BDL | 15 | BDL | 3 | BDL | BDL | 7 | BDL | BDL | BDL |
| **74** | ng/L | 1.55 | 4 | BDL | BDL | BDL | BDL | BDL | BDL | 9 | BDL | 3 | 1 | BDL | 1 | BDL | BDL | BDL |
| **77** | ng/L | 1.06 | 1 | BDL | BDL | BDL | 1 | BDL | BDL | 2 | BDL | BDL | BDL | BDL | 1 | BDL | BDL | BDL |
| **81** | ng/L | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| **82** | ng/L | 1.55 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **83** | ng/L | 1.34 | 2 | BDL | BDL | 3 | 9 | BDL | 0 | 11 | BDL | 2 | 0 | BDL | 4 | BDL | BDL | BDL |
| **84** | ng/L | 2.26 | 18 | BDL | BDL | 16 | 51 | BDL | BDL | 54 | BDL | 15 | 2 | BDL | 32 | 1 | BDL | BDL |
| **85** | ng/L | 1.22 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **87** | ng/L | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| **88** | ng/L | 2.11 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |

| Sediment | | | 2 | 4 | 10 | 13 | 14 | 15 | 16 | 17 | 22 | 23 | 24 | 26 | 27 | 28 | 29 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | | | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| | Units | Reporting Limit | | | | | | | | | | | | | | | | |
| 90/101 | ng/L | 1.03 | 16 | BDL | BDL | 14 | 45 | 1 | 2 | 44 | BDL | 15 | 3 | BDL | 20 | 2 | BDL | BDL |
| 91 | ng/L | 1.83 | 14 | BDL | BDL | 20 | 46 | 1 | 2 | 46 | BDL | 12 | 2 | BDL | 24 | 1 | BDL | BDL |
| 92 | ng/L | 1.08 | 12 | BDL | BDL | 25 | 59 | 1 | 1 | 60 | BDL | 13 | 1 | BDL | 23 | 1 | BDL | BDL |
| 93 | ng/L | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| 95 | ng/L | 1.83 | 39.7 | BDL | BDL | 50.3 | 113.1 | 4.3 | 8.9 | 168.0 | BDL | 34.7 | 7.3 | BDL | 119.5 | 4.3 | BDL | BDL |
| 97 | ng/L | 1.25 | 2.3 | BDL | BDL | BDL | 1.6 | BDL | BDL | 2.6 | BDL | 1.9 | BDL | BDL | 0.6 | BDL | BDL | BDL |
| 99 | ng/L | 0.99 | 4.6 | BDL | BDL | 3.5 | 11.3 | BDL | 0.7 | 14.7 | BDL | 4.5 | 1.0 | BDL | 3.4 | 0.7 | BDL | BDL |
| 100 | ng/L | 1.44 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 103 | ng/L | 1.48 | 2.2 | BDL | BDL | 6.2 | 14.7 | BDL | BDL | 31.8 | BDL | 2.3 | BDL | BDL | 21.2 | BDL | BDL | BDL |
| 104 | ng/L | 3.90 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 105 | ng/L | 0.53 | 1.3 | BDL | BDL | 1.5 | 6.8 | 0.3 | 0.5 | 7.7 | BDL | 1.6 | 0.6 | BDL | 1.9 | 0.6 | BDL | BDL |
| 107 | ng/L | 0.46 | 0.5 | BDL | BDL | 0.9 | 1.0 | BDL | BDL | 0.8 | BDL | 0.5 | BDL | BDL | 0.4 | BDL | BDL | BDL |
| 110 | ng/L | 0.80 | 14.3 | BDL | BDL | 17.4 | 35.5 | 1.0 | 2.0 | 39.7 | BDL | 12.1 | 2.7 | BDL | 21.8 | 1.3 | BDL | BDL |
| 114 | ng/L | 0.53 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 115 | ng/L | cannot be resolved due to mutiple co-elutions | | | | | | | | | | | | | | | | |
| 117 | ng/L | 0.84 | 1.2 | BDL | BDL | 1.7 | 2.8 | BDL | BDL | 2.3 | BDL | 1.2 | BDL | BDL | 1.4 | BDL | BDL | BDL |
| 118 | ng/L | 0.43 | 1.7 | BDL | BDL | 0.9 | 1.3 | BDL | 0.3 | 1.8 | BDL | 1.5 | 0.6 | BDL | 0.6 | 0.5 | BDL | BDL |
| 119 | ng/L | 0.63 | 1.4 | BDL | BDL | BDL | 5.3 | BDL | BDL | 5.9 | BDL | 1.2 | BDL | BDL | 2.8 | BDL | BDL | BDL |
| 122 | ng/L | 0.55 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 123 | ng/L | 0.43 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 124 | ng/L | 0.44 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 128 | ng/L | 0.4 | 0.20 | BDL | BDL | BDL | BDL | BDL | BDL | 0.24 | BDL | 0.18 | BDL | BDL | BDL | BDL | BDL | BDL |
| 129 | ng/L | 0.4 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 130 | ng/L | 0.4 | 0.15 | BDL | BDL | 0.24 | 0.89 | BDL | BDL | 1.30 | BDL | 0.19 | BDL | BDL | 0.23 | BDL | BDL | BDL |
| 131 | ng/L | 0.6 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 132 | ng/L | 0.6 | 2.59 | BDL | BDL | 3.84 | 6.61 | 0.63 | 1.00 | 7.37 | BDL | 2.68 | 0.78 | BDL | 2.51 | 0.52 | BDL | BDL |
| 134 | ng/L | 0.7 | 0.80 | BDL | BDL | 1.41 | 2.63 | BDL | BDL | 3.06 | BDL | 0.83 | BDL | BDL | 1.23 | BDL | BDL | BDL |
| 135 | ng/L | 0.5 | 2.94 | BDL | BDL | 7.06 | 16.08 | BDL | 0.33 | 17.84 | BDL | 3.25 | 0.27 | BDL | 5.50 | BDL | BDL | BDL |
| 136 | ng/L | 1.5 | 4.89 | BDL | BDL | 8.49 | 18.93 | BDL | 1.11 | 23.37 | BDL | 4.73 | 0.64 | BDL | 8.59 | 0.39 | BDL | BDL |
| 137 | ng/L | 0.3 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 138/163 | ng/L | 0.3 | 1.34 | BDL | BDL | 2.11 | 4.52 | 0.10 | 0.44 | 5.45 | BDL | 1.40 | 0.38 | BDL | 1.98 | 0.25 | BDL | BDL |
| 141 | ng/L | 0.4 | 0.25 | BDL | BDL | 0.24 | 0.24 | BDL | 0.19 | 0.46 | BDL | 0.26 | 0.20 | BDL | 0.23 | 0.14 | BDL | BDL |
| 144 | ng/L | 0.5 | 0.17 | BDL | BDL | BDL | BDL | BDL | BDL | 0.32 | BDL | 0.20 | BDL | BDL | BDL | BDL | BDL | BDL |
| 146 | ng/L | 0.3 | 0.42 | BDL | BDL | 0.78 | 3.89 | BDL | 0.11 | 4.27 | BDL | 0.58 | BDL | BDL | 0.95 | BDL | BDL | BDL |
| 147 | ng/L | 0.5 | 0.42 | BDL | BDL | 0.73 | 2.13 | BDL | BDL | 1.53 | BDL | 0.47 | BDL | BDL | 0.65 | BDL | BDL | BDL |
| 149 | ng/L | 0.5 | 5.21 | BDL | BDL | 9.90 | 22.78 | 0.47 | 1.51 | 24.89 | BDL | 5.40 | 0.91 | BDL | 7.55 | 0.76 | BDL | BDL |
| 151 | ng/L | 0.5 | 2.54 | BDL | BDL | 5.05 | 12.23 | BDL | 0.47 | 15.97 | BDL | 2.98 | 0.40 | BDL | 5.25 | 0.25 | BDL | BDL |
| 153 | ng/L | 0.3 | 0.90 | BDL | BDL | 1.10 | 3.31 | 0.13 | 0.38 | 4.01 | BDL | 1.10 | 0.34 | BDL | 1.16 | 0.33 | BDL | BDL |
| 154 | ng/L | 0.4 | 0.75 | BDL | BDL | 1.91 | 4.89 | BDL | BDL | 5.08 | BDL | 0.83 | BDL | BDL | 1.65 | BDL | BDL | BDL |
| 156 | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 157 | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 158 | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 165 | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 167 | ng/L | 0.1 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 170 | ng/L | 0.1 | 0.05 | BDL | BDL | 0.11 | 0.15 | BDL | 0.04 | 0.28 | BDL | 0.07 | BDL | BDL | 0.08 | BDL | BDL | BDL |
| 171 | ng/L | 0.2 | BDL | BDL | BDL | 0.07 | 0.13 | BDL | BDL | 0.21 | BDL | 0.07 | BDL | BDL | 0.06 | BDL | BDL | BDL |
| 172 | ng/L | 0.1 | BDL | BDL | BDL | BDL | 0.13 | BDL | BDL | 0.19 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 173 | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 174 | ng/L | 0.2 | 0.13 | BDL | BDL | 0.18 | 0.42 | BDL | 0.10 | 0.72 | BDL | 0.17 | BDL | BDL | 0.17 | BDL | BDL | BDL |
| 175 | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 176 | ng/L | 0.4 | 0.16 | BDL | BDL | 0.33 | 0.81 | BDL | BDL | 0.92 | BDL | 0.22 | BDL | BDL | 0.25 | BDL | BDL | BDL |
| 177 | ng/L | 0.2 | 0.26 | BDL | BDL | 0.73 | 1.66 | BDL | BDL | 1.84 | BDL | 0.37 | BDL | BDL | 0.53 | BDL | BDL | BDL |
| 178 | ng/L | 0.2 | 0.23 | BDL | BDL | 0.57 | 1.23 | BDL | BDL | 1.34 | BDL | 0.26 | BDL | BDL | 0.51 | BDL | BDL | BDL |
| 179 | ng/L | 0.4 | 0.95 | BDL | BDL | 1.67 | 3.63 | BDL | 0.56 | 4.08 | BDL | 1.17 | BDL | BDL | 1.29 | 0.31 | BDL | BDL |
| 180 | ng/L | 0.1 | 0.13 | BDL | BDL | 0.22 | 0.35 | BDL | 0.06 | 0.61 | BDL | 0.14 | 0.03 | BDL | 0.14 | 0.03 | BDL | BDL |
| 183 | ng/L | 0.1 | 0.08 | BDL | BDL | 0.13 | 0.23 | BDL | BDL | 0.40 | BDL | 0.12 | BDL | BDL | 0.12 | BDL | BDL | BDL |
| 185 | ng/L | 0.2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 187 | ng/L | 0.2 | 0.54 | BDL | BDL | 1.13 | 2.58 | 0.06 | 0.18 | 2.83 | BDL | 0.67 | 0.12 | BDL | 0.86 | 0.09 | BDL | BDL |
| 189 | ng/L | 0.04 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 190 | ng/L | 0.08 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.04 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 191 | ng/L | 0.06 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 193 | ng/L | 0.07 | BDL | BDL | BDL | BDL | 0.05 | BDL | BDL | 0.06 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 194 | ng/L | 0.03 | BDL | BDL | BDL | 0.02 | 0.04 | BDL | BDL | 0.05 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 195 | ng/L | 0.06 | BDL | BDL | BDL | BDL | 0.03 | BDL | BDL | 0.04 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 196 | ng/L | 0.05 | BDL | BDL | BDL | 0.02 | 0.03 | BDL | BDL | 0.04 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 197 | ng/L | 0.11 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 199 | ng/L | 0.05 | 0.03 | BDL | BDL | 0.05 | 0.12 | BDL | BDL | 0.14 | BDL | 0.04 | BDL | BDL | 0.04 | BDL | BDL | BDL |
| 200 | ng/L | 0.14 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 201 | ng/L | 0.12 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 202 | ng/L | 0.05 | 0.02 | BDL | BDL | 0.05 | 0.09 | BDL | BDL | 0.64 | BDL | 0.04 | BDL | BDL | 0.04 | BDL | BDL | BDL |
| 203 | ng/L | 0.13 | 0.21 | BDL | BDL | 0.07 | 0.13 | BDL | BDL | 0.18 | BDL | 0.06 | BDL | BDL | 0.06 | BDL | BDL | BDL |
| 205 | ng/L | 0.05 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 206 | ng/L | 0.02 | 0.01 | BDL | BDL | BDL | BDL | BDL | BDL | 0.02 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 207 | ng/L | 0.04 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |

| Sediment | | | 2 | 4 | 10 | 13 | 14 | 15 | 16 | 17 | 22 | 23 | 24 | 26 | 27 | 28 | 29 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | | | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| | Units | Reporting Limit | | | | | | | | | | | | | | | | |
| 208 | ng/L | 0.04 | BDL | BDL | BDL | BDL | 0.02 | BDL | BDL | 0.02 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 209 | ng/L | 0.01 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |

| Sediment | | | 2 | 11 | 14 | 16 | 23 | 24 | 29 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | | | | | | | | | | |
| | **Units** | **Reporting Limit** | | | | | | | | |
| **PCB Homolog Groups** | | | | | | | | | | |
| **Total Monochlorobiphenyl** | µg/L | | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **Total Dichlorobiphenyl** | µg/L | | 0.697 | 6.019 | 1.405 | BLD | 0.111 | BLD | BLD | BLD |
| **Total Trichlorobiphenyl** | µg/L | | 2.288 | 13.089 | 4.052 | BLD | 0.510 | 0.007 | BLD | BLD |
| **Total Tetrachlorobiphenyl** | µg/L | | 0.836 | 2.892 | 1.529 | 0.029 | 0.190 | 0.041 | BLD | BLD |
| **Total Pentachlorobiphenyl** | µg/L | | 0.168 | 0.471 | 0.236 | 0.011 | 0.037 | 0.015 | BLD | BLD |
| **Total Hexachlorobiphenyl** | µg/L | | 0.033 | 0.111 | 0.065 | 0.004 | 0.007 | 0.004 | BLD | BLD |
| **Total Heptachlorobiphenyl** | µg/L | | 0.004 | 0.013 | 0.009 | 0.004 | 0.000 | 0.004 | BLD | BLD |
| **Total Octachlorobiphenyl** | µg/L | | 0.033 | 0.111 | 0.065 | 0.004 | 0.007 | 0.004 | BLD | BLD |
| **Total Nonachlorobiphenyl** | µg/L | | 0 | 0 | 0 | BLD | BLD | BLD | BLD | BLD |
| **Total Homolog PCB** | µg/L | | 4.1 | 22.7 | 7.4 | 0.1 | 0.9 | 0.1 | BLD | BLD |
| | | | | | | | | | | |
| **PCB Congeners** | | | | | | | | | | |
| **1** | ng/L | 96 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **3** | ng/L | 56 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **4** | ng/L | 61 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **5** | ng/L | 29 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **6** | ng/L | 23 | 64.6 | 541.0 | 209.0 | BLD | BLD | BLD | BLD | BLD |
| **7** | ng/L | 23 | 11.5 | 99.2 | 29.3 | BLD | BLD | BLD | BLD | BLD |
| **8** | ng/L | 23 | 402.8 | 3168.4 | 790.2 | BLD | 79.4 | BLD | BLD | BLD |
| **9** | ng/L | 23 | 15.8 | 193.7 | 40.2 | BLD | BLD | BLD | BLD | BLD |
| **10** | ng/L | 39 | 73.5 | 1416.4 | 119.9 | BLD | BLD | BLD | BLD | BLD |
| **12/13** | ng/L | 15 | BLD | 52.1 | BLD | BLD | BLD | BLD | BLD | BLD |
| **14** | ng/L | 14 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **15/16** | ng/L | 15 | 129.0 | 548.3 | 216.4 | BLD | 32.1 | BLD | BLD | BLD |
| **17** | ng/L | 15 | 405.9 | 2069.2 | 622.1 | BLD | 105.0 | BLD | BLD | BLD |
| **18** | ng/L | 15 | 113.4 | 324.1 | 402.9 | BLD | 27.2 | BLD | BLD | BLD |
| **19** | ng/L | 25 | 901.5 | 6283.5 | 1502.0 | BLD | 165.3 | BLD | BLD | BLD |
| **20** | ng/L | | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **22** | ng/L | 7 | 16.1 | 41.1 | 11.5 | BLD | 4.4 | BLD | BLD | BLD |
| **24** | ng/L | 12 | 6.0 | 32.8 | 5.3 | BLD | BLD | BLD | BLD | BLD |
| **25** | ng/L | 5 | 42.1 | 176.1 | 100.4 | BLD | 11.2 | BLD | BLD | BLD |
| **26/29** | ng/L | 6 | 89.9 | 461.3 | 158.9 | BLD | 30.4 | 2.2 | BLD | BLD |
| **27** | ng/L | 9 | 369.0 | 2144.8 | 591.9 | BLD | 82.7 | BLD | BLD | BLD |
| **28/31** | ng/L | 5 | 205.8 | 732.7 | 348.3 | BLD | 55.2 | 5.2 | BLD | BLD |
| **32** | ng/L | 9 | 127.6 | 763.8 | 288.4 | BLD | 28.8 | BLD | BLD | BLD |
| **33** | ng/L | | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **34** | ng/L | 6 | 10.9 | 59.4 | 19.9 | BLD | BLD | BLD | BLD | BLD |
| **35** | ng/L | 4 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **37** | ng/L | | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **40/71** | ng/L | 6 | 7.0 | 8.6 | 8.3 | BLD | 2.0 | BLD | BLD | BLD |
| **41** | ng/L | 5 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **42** | ng/L | 4 | 18.7 | 44.8 | 32.8 | 2.3 | 4.4 | 2.6 | BLD | BLD |
| **44/47** | ng/L | 4 | 150.5 | 488.0 | 197.6 | 4.6 | 40.7 | 11.0 | BLD | BLD |
| **45** | ng/L | 8 | 92.6 | 332.1 | 154.4 | BLD | 22.4 | BLD | BLD | BLD |

| Sediment | | | 2 | 11 | 14 | 16 | 23 | 24 | 29 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | | | | | | | | | | |
| | **Units** | **Reporting Limit** | | | | | | | | |
| **46** | ng/L | 8 | 10.7 | 42.1 | 18.2 | BLD | BLD | BLD | BLD | BLD |
| **48** | ng/L | 4 | 6.0 | 15.0 | 3.9 | BLD | 2.0 | BLD | BLD | BLD |
| **49** | ng/L | 4 | 84.0 | 255.6 | 154.7 | 5.7 | 20.6 | 6.4 | BLD | BLD |
| **51** | ng/L | 6 | 67.7 | 334.1 | 178.1 | BLD | 9.7 | BLD | BLD | BLD |
| **52** | ng/L | 4 | 106.8 | 279.8 | 239.9 | 12.5 | 26.6 | 9.7 | BLD | BLD |
| **53** | ng/L | 6 | 110.2 | 429.6 | 224.5 | 2.8 | 22.5 | 4.9 | BLD | BLD |
| **54** | ng/L | 16 | 69.5 | 368.9 | 179.1 | BLD | 14.1 | BLD | BLD | BLD |
| **56** | ng/L | 2 | 5.0 | 9.2 | 4.0 | BLD | 1.0 | 1.1 | BLD | BLD |
| **59/75** | ng/L | 3 | 18.5 | 66.6 | 27.7 | BLD | 4.7 | 0.7 | BLD | BLD |
| **60** | ng/L | 2 | 1.4 | 0.9 | BLD | BLD | BLD | BLD | BLD | BLD |
| **63** | ng/L | 2 | 4.3 | 20.6 | 8.4 | BLD | 1.1 | BLD | BLD | BLD |
| **64/71** | ng/L | 3 | 62.3 | 135.0 | 85.8 | 1.2 | 12.8 | 1.6 | BLD | BLD |
| **66** | ng/L | | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **67** | ng/L | | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **69** | ng/L | 2.26 | 3.9 | 16.1 | 5.9 | BLD | BLD | BLD | BLD | BLD |
| **70** | ng/L | 1.55 | 11.9 | 23.2 | 3.0 | 0.3 | 2.5 | 2.0 | BLD | BLD |
| **73** | ng/L | 2.26 | BLD | 13.0 | BLD | BLD | 1.6 | BLD | BLD | BLD |
| **74** | ng/L | 1.55 | 4.2 | 6.4 | 1.5 | BLD | 1.0 | 0.8 | BLD | BLD |
| **77** | ng/L | 1.06 | 1.0 | 2.5 | 1.1 | BLD | BLD | BLD | BLD | BLD |
| **81** | ng/L | | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **82** | ng/L | 1.55 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **83** | ng/L | 1.34 | 2.3 | 8.5 | 3.7 | 0.2 | 0.5 | BLD | BLD | BLD |
| **84** | ng/L | 2.26 | 24.6 | 59.0 | 31.0 | 1.9 | 4.6 | 2.1 | BLD | BLD |
| **85** | ng/L | 1.22 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **87** | ng/L | | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **88** | ng/L | 2.11 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **90/101** | ng/L | 1.03 | 23.7 | 58.4 | 28.9 | 1.3 | 4.7 | 3.0 | BLD | BLD |
| **91** | ng/L | 1.83 | 15.6 | 51.9 | 23.8 | 0.8 | 3.3 | 1.1 | BLD | BLD |
| **92** | ng/L | 1.08 | 16.9 | 61.9 | 39.3 | 0.6 | 4.3 | 1.0 | BLD | BLD |
| **93** | ng/L | | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **95** | ng/L | 1.83 | 49.9 | 130.5 | 70.0 | 4.7 | 11.5 | 5.3 | BLD | BLD |
| **97** | ng/L | 1.25 | 2.6 | 3.7 | 0.7 | BLD | 0.6 | 0.8 | BLD | BLD |
| **99** | ng/L | 0.99 | 5.4 | 14.7 | 5.9 | 0.4 | 1.3 | 1.0 | BLD | BLD |
| **100** | ng/L | 1.44 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **103** | ng/L | 1.48 | 2.4 | 10.1 | 7.0 | BLD | BLD | BLD | BLD | BLD |
| **104** | ng/L | 3.90 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **105** | ng/L | 0.53 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **107** | ng/L | 0.46 | 0.7 | 3.4 | 0.6 | BLD | BLD | BLD | BLD | BLD |
| **110** | ng/L | 0.80 | 18.5 | 52.7 | 19.2 | 1.5 | 4.2 | BLD | BLD | BLD |
| **114** | ng/L | 0.53 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **115** | ng/L | | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **117** | ng/L | 0.84 | 1.7 | 5.9 | 1.9 | BLD | 0.8 | BLD | BLD | BLD |
| **118** | ng/L | 0.43 | 2.3 | 5.2 | 1.2 | BLD | 0.7 | 0.8 | BLD | BLD |
| **119** | ng/L | 0.63 | 1.4 | 5.3 | 2.6 | BLD | 0.3 | BLD | BLD | BLD |
| **122** | ng/L | 0.55 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **123** | ng/L | 0.43 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **124** | ng/L | 0.44 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |

| Sediment | | | 2 | 11 | 14 | 16 | 23 | 24 | 29 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | | | | | | | | | | |
| | **Units** | **Reporting Limit** | | | | | | | | |
| **128** | ng/L | 0.4 | 0.3 | 0.4 | BLD | BLD | BLD | BLD | BLD | BLD |
| **129** | ng/L | 0.4 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **130** | ng/L | 0.4 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **131** | ng/L | 0.6 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **132** | ng/L | 0.6 | 4.2 | 12.4 | 5.6 | 0.6 | 1.1 | 0.7 | BLD | BLD |
| **134** | ng/L | 0.7 | 1.2 | 4.0 | 1.8 | BLD | BLD | BLD | BLD | BLD |
| **135** | ng/L | 0.5 | 4.3 | 15.3 | 10.4 | 0.3 | 0.9 | 0.4 | BLD | BLD |
| **136** | ng/L | 1.5 | 6.3 | 19.9 | 11.3 | 0.7 | 1.2 | 0.7 | BLD | BLD |
| **137** | ng/L | 0.3 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **138/163** | ng/L | 0.3 | 2.0 | 6.1 | 2.8 | 0.3 | 0.4 | 0.4 | BLD | BLD |
| **141** | ng/L | 0.4 | 0.3 | 0.6 | 0.2 | 0.1 | BLD | 0.1 | BLD | BLD |
| **144** | ng/L | 0.5 | 0.2 | 0.2 | BLD | BLD | BLD | BLD | BLD | BLD |
| **146** | ng/L | 0.3 | 0.6 | 2.6 | 2.5 | BLD | 0.1 | 0.1 | BLD | BLD |
| **147** | ng/L | 0.5 | 0.5 | 2.4 | 1.3 | BLD | BLD | BLD | BLD | BLD |
| **149** | ng/L | 0.5 | 6.6 | 22.0 | 13.4 | 0.9 | 1.4 | 0.8 | BLD | BLD |
| **151** | ng/L | 0.5 | 4.1 | 14.1 | 8.9 | 0.3 | 0.9 | 0.4 | BLD | BLD |
| **153** | ng/L | 0.3 | 1.6 | 5.4 | 2.9 | 0.3 | 0.4 | 0.5 | BLD | BLD |
| **154** | ng/L | 0.4 | 0.89 | 4.52 | 3.38 | BLD | 0.23 | BLD | BLD | BLD |
| **156** | ng/L | 0.2 | BLD | 0.12 | BLD | BLD | BLD | BLD | BLD | BLD |
| **157** | ng/L | 0.2 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **158** | ng/L | 0.2 | 0.16 | 0.27 | 0.12 | BLD | 0.15 | BLD | BLD | BLD |
| **165** | ng/L | 0.2 | BLD | 0.23 | 0.19 | BLD | BLD | BLD | BLD | BLD |
| **167** | ng/L | 0.1 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **170** | ng/L | 0.1 | 0.13 | 0.36 | 0.17 | BLD | BLD | BLD | BLD | BLD |
| **171** | ng/L | 0.2 | 0.08 | 0.21 | 0.13 | BLD | BLD | BLD | BLD | BLD |
| **172** | ng/L | 0.1 | BLD | 0.09 | 0.09 | BLD | BLD | BLD | BLD | BLD |
| **173** | ng/L | 0.2 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **174** | ng/L | 0.2 | 0.25 | 0.73 | 0.41 | 0.08 | BLD | BLD | BLD | BLD |
| **175** | ng/L | 0.2 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **176** | ng/L | 0.4 | 0.27 | 0.64 | 0.66 | BLD | BLD | BLD | BLD | BLD |
| **177** | ng/L | 0.2 | 0.56 | 2.22 | 1.54 | BLD | 0.12 | BLD | BLD | BLD |
| **178** | ng/L | 0.2 | 0.39 | 1.44 | 0.84 | BLD | 0.07 | BLD | BLD | BLD |
| **179** | ng/L | 0.4 | 1.29 | 4.12 | 2.89 | BLD | BLD | BLD | BLD | BLD |
| **180** | ng/L | 0.1 | 0.19 | 0.57 | 0.26 | 0.06 | 0.05 | 0.05 | BLD | BLD |
| **183** | ng/L | 0.1 | 0.13 | 0.34 | 0.18 | BLD | BLD | BLD | BLD | BLD |
| **185** | ng/L | 0.2 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **187** | ng/L | 0.2 | 0.69 | 2.61 | 1.79 | 0.08 | 0.16 | 0.09 | BLD | BLD |
| **189** | ng/L | 0.04 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **190** | ng/L | 0.08 | BLD | 0.04 | BLD | BLD | BLD | BLD | BLD | BLD |
| **191** | ng/L | 0.06 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **193** | ng/L | 0.07 | BLD | 0.06 | 0.04 | BLD | BLD | BLD | BLD | BLD |
| **194** | ng/L | 0.03 | 0.02 | 0.07 | 0.03 | BLD | BLD | BLD | BLD | BLD |
| **195** | ng/L | 0.06 | BLD | 0.06 | 0.03 | BLD | BLD | BLD | BLD | BLD |
| **196** | ng/L | 0.05 | BLD | 0.06 | 0.03 | BLD | BLD | BLD | BLD | BLD |
| **197** | ng/L | 0.11 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **199** | ng/L | 0.05 | 0.07 | 0.22 | 0.13 | BLD | BLD | BLD | BLD | BLD |
| **200** | ng/L | 0.14 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |

| Sediment | | | 2 | 11 | 14 | 16 | 23 | 24 | 29 | 33 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | | | | | | | | | | |
| | **Units** | **Reporting Limit** | | | | | | | | |
| **201** | ng/L | 0.12 | BLD | 0.10 | BLD | BLD | BLD | BLD | BLD | BLD |
| **202** | ng/L | 0.05 | 0.05 | 0.20 | 0.10 | BLD | BLD | BLD | BLD | BLD |
| **203** | ng/L | 0.13 | 0.11 | 0.29 | 0.14 | BLD | BLD | BLD | BLD | BLD |
| **205** | ng/L | 0.05 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **206** | ng/L | 0.02 | 0.01 | 0.03 | 0.01 | BLD | BLD | BLD | BLD | BLD |
| **207** | ng/L | 0.04 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |
| **208** | ng/L | 0.04 | 0.02 | 0.03 | 0.02 | BLD | BLD | BLD | BLD | BLD |
| **209** | ng/L | 0.01 | BLD | BLD | BLD | BLD | BLD | BLD | BLD | BLD |

# APPENDIX D

## Development of Benchmarks and Toxicity Reference Values

ARCADIS Design & Consultancy for natural and built assets

Pharmacia LLC and Solutia Inc.

# BASELINE ECOLOGICAL RISK ASSESSMENT FOR OPERABLE UNIT 4

## Appendix D - Development of Benchmarks and Toxicity Reference Values

Anniston PCB Site, Anniston, Alabama

October 2016

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# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| ADEM | Alabama Department of Environmental Management |
| AHR | aryl hydrocarbon receptor |
| BERA | baseline ecological risk assessment |
| CalEPA | California Environmental Protection Agency |
| COPC | constituent of potential concern |
| CTC | critical tissue concentration |
| DLC | dioxin-like compound |
| EC | effect concentration |
| EcoSSL | Ecological Soils Screening Levels |
| ERED | Environmental Residue Effects Database |
| ESV | ecological screening value |
| FAV | Final Acute Value |
| FCV | Final Chronic Value |
| FSP | field sampling plan |
| kg | kilogram(s) |
| kg/kg BW-d | kilograms per kilogram of body weight per day |
| $K_{oc}$ | organic carbon partitioning coefficient |
| g | gram |
| L/kg | liters per kilogram |
| LOAEL | lowest-observed adverse effects level |
| LOEC | low observed effect concentration |
| mg/kg | milligrams per kilogram |
| mg/kg BW-d | milligrams per kilogram of body weight per day |
| mg/kg dw | milligrams per kilogram dry weight |
| mg/kg ww | milligrams per kilogram wet weight |
| mg/L | milligrams per liter |
| mmol/kg | micromoles per kilogram |
| NOAEL | no-observed adverse effects level |
| OEHHA | Office of Environmental Health Hazard Assessment |

| | |
|---|---|
| ORNL | Oak Ridge National Laboratory |
| OU-4 | Operable Unit 4 |
| PCB | polychlorinated biphenyl |
| PEC | probable effect concentration |
| RAGS | Risk Assessment Guidance for Superfund |
| TEC | threshold effect concentration |
| TEQ | toxic equivalents |
| TRV | toxicity reference value |
| USEPA | United States Environmental Protection Agency |
| WQS | water quality standards |
| µg | micrograms |
| µg/g | micrograms per gram |
| µg/L | micrograms per liter |

# 1 INTRODUCTION

This appendix to the *Baseline Ecological Risk Assessment for Operable Unit 4* (OU-4 BERA) describes the identification of toxicity reference values (TRVs) for ecological receptors at OU-4 of the Anniston Polychlorinated Biphenyl (PCB) Site. In an ecological risk assessment, the toxicity of a constituent of potential concern (COPC) to ecological receptors is assessed by identifying a toxicity threshold value specific to the COPC and the receptor(s) being evaluated (United States Environmental Protection Agency [USEPA] 1999). Toxicity values can be media-based, tissue-based, or based on a dietary dose. The COPCs identified for the OU-4 BERA are PCBs, mercury, and five other metals (barium, chromium, cobalt, lead, mercury, and vanadium). As such, this document focuses on the identification and development of toxicity benchmarks, dietary TRVs, and tissue-based critical tissue concentrations (CTCs) for PCBs and mercury, and summarizes the selection of toxicity benchmarks and TRVs for the other five metals.

For this document, the term "benchmark" is used to represent abiotic media-based toxicity values taken from published or literature-based values. These benchmarks include published screening values (e.g., threshold effect concentrations [TECs] and probable effect concentrations [PECs]) as well as values based on constituent-specific bioassays (e.g., water quality standards [WQS] protective of aquatic life from the Alabama Department of Environmental Management [ADEM 2015] and USEPA [2016a]). Toxicity values based on site-specific bioassays (whole sediment tests) are referred to as toxicity thresholds. Media-based benchmarks and toxicity thresholds were selected or developed for soil, sediment, and surface water for protection of the following lower trophic level receptors:

- Terrestrial plants;
- Terrestrial invertebrates;
- Sediment-dwelling (benthic) invertebrates; and
- Aquatic life (aquatic plants, water column invertebrates, fish, and amphibians).

The term TRV is used to represent dietary dose-based toxicity values. Following USEPA guidance (1997), TRVs were developed based on endpoints that could result in population-level impacts such as survival, reproduction, development, and growth. The dietary dose-based TRV is defined as a daily dose of a chemical expressed in milligrams of chemical per kilogram of body weight per day (mg/kg BW-d). TRVs are generally developed to represent a dose associated with no-observed adverse effects levels (NOAEL or low TRV) or lowest-observed adverse effects levels (LOAEL or high TRV). Tissue-based toxicity values, in units of milligrams per kilogram wet weight (mg/kg ww) or milligrams per kilogram dry weight (mg/kg dw), are referred to as CTCs. For PCBs and mercury, dietary TRVs for birds and mammals and tissue-based CTCs for invertebrates, birds, and mammals were developed through review of primary literature and consideration of factors such as:

1. Close relatedness of the test species to the wildlife receptor of concern;
2. Chronic duration of exposure and/or included sensitive life stages to evaluate potential developmental and reproductive effects;
3. Measurement of ecologically relevant endpoints; and
4. Minimal impact of co-contaminants.

Primary literature was also reviewed and used to select fish tissue-based CTCs for PCBs, mercury, lead, and vanadium. Literature data were insufficient to develop fish tissue CTCs for the remaining metals. For dietary TRVs for the remaining metals (except for the dietary avian TRVs for barium) TRVs were taken from USEPA Ecological Soil Screening Level (USEPA EcoSSL)[1] Guidance (USEPA 2005 and 2007). The avian TRVs for barium were taken from Oak Ridge National Laboratory (ORNL) Toxicological Benchmarks for Wildlife (Sample et al. 1996). Data were insufficient to develop tissue-based CTCs for the remaining metals for invertebrates, birds, and mammals. In addition, dietary TRVs and tissue-based CTCs for amphibians and reptiles, as well as tissue-based CTCs for terrestrial plants, are not available and were not developed because the available toxicity data are not sufficient. The assessment of potential risk to these receptors relies on the media-based benchmarks discussed above and available site-specific community data. Table D-1 summarizes the availability of toxicity values that are specified in the Problem Formulation (see Section 2 of the OU-4 BERA), and also identifies cases where no toxicity value could be developed due to lack of sufficient published toxicity literature. Benchmarks, TRVs, and CTCs used for the OU-4 COPCs are summarized in Table D-2.

Following this introductory section, the remainder of this document is organized as follows:

- Section 2 describes the selection of media-based benchmarks.
- Section 3 describes the selection or development of dietary TRVs and tissue-based CTCs for PCBs.
- Section 4 describes the selection or development dietary TRVs and tissue-based CTCs for mercury.
- Section 5 describes the selection or development of dietary TRVs and tissue-based CTCs for other metals.
- Section 6 lists references used in preparation of this document.

[1] Only NOAEL values are available in EcoSSL documents. LOAELs were developed from the underlying datasets as described in Section 3.

# 2 MEDIA-BASED BENCHMARKS

This section describes benchmarks selected for the protection of benthic invertebrate community (sediment), aquatic life (surface water), and terrestrial plants and invertebrates (soil).

## 2.1 Sediment Benchmarks and Thresholds

For the benthic community, sediment-based toxicity values for PCBs and mercury were developed based on site-specific bioassays (referred to as "site-specific sediment thresholds") conducted within OU-4. Chronic toxicity tests were conducted on 31 different sediments using a freshwater amphipod (*Hyalella azteca*) and midge (*Chironomus dilutus*) according to standard procedures specified in USEPA (2000) and ASTM International (2012). The sediment toxicity tests included 12 survival, growth, and reproduction endpoints for the midge tests; and 11 survival, growth, and reproduction endpoints for the amphipod tests (Appendix C to the OU- 4 BERA). Toxicity thresholds were developed for the effect concentration (EC) at which effects were observed on 0, 10, 20, and 50% of the test species (the EC0*, EC10*, EC20*, and EC50* values).

For the purposes of conducting the OU-4 BERA, the minimum EC0* (1.38 mg/kg) and EC20* (4.43 mg/kg) based on 42-day fecundity in *H azteca* are selected to represent NOAEL and LOAEL equivalent values for PCBs. For mercury, the minimum EC0* (0.412 mg/kg) and EC20* (1.02 mg/kg) based on the same endpoint are selected to represent NOAEL and LOAEL equivalent threshold values. Additional detail regarding the toxicity tests and the selection of the EC values is provided in Section 5 and Appendix C of the OU-4 BERA.

Literature-based sediment benchmarks for PCBs and the remaining metal COPCs were also employed. Sediment benchmarks for aquatic plants, fish, reptiles, and amphibians are not provided at this time due to the lack of an appropriate toxicity dataset. However, the benchmarks for sediment invertebrates are considered conservative and are assumed to be protective of all benthic communities. Empirically-derived sediment benchmarks for protection of benthic invertebrates are available from a number of sources (Buchman 2008). Values (TECs and PECs) developed by MacDonald et al. (2000) are generally accepted for screening purposes in freshwater sediments and represent a conservative non-site-specific estimate of potential toxicity thresholds. The TECs represent the lower end of this range and are associated with concentrations below which toxicity is unlikely. PECs represent the middle of the range and are associated with concentrations that are expected to cause toxicity. These values are summarized in Table D-2. The primary limitation of these empirically-derived sediment benchmarks is that they are derived from sediments that contain a mixture of chemicals. Thus, predictive levels for an individual chemical may represent co-contaminant effects.

## 2.2 Surface Water Benchmarks

For aquatic life – including aquatic plants, aquatic invertebrates, fish, and amphibians – acute and chronic surface water benchmarks protective of aquatic life were selected from ADEM (2015) and USEPA's National Ambient Water Quality Criteria for protection of aquatic life (USEPA 2016a). Acute values for PCBs and acute or chronic values for barium, cobalt, and vanadium were not available from ADEM or USEPA, thus, these values were taken from secondary acute and chronic values from Suter and Tsao (1996). These secondary values were developed for constituents for which the dataset did not meet

requirements for development of formal WQS. An approach similar to that used to develop federal WQS was employed and conservative uncertainty factors were applied to account for potential deficiencies in the underlying datasets.

Because WQS and secondary values are developed based on combining toxicity data for plants, fish, amphibians, and invertebrate species to develop a criteria protective of 95% of the species, values from Suter and Tsao (1996) were used to generate benchmarks specific to fish, aquatic invertebrates (daphnids), and aquatic plants (Table D-2). For each aquatic receptor group exposed to water, the risk assessment considered both the WQS and receptor group-specific benchmarks where available.

## 2.3 Soil Benchmarks

Soil-based benchmarks are available for soil invertebrates and terrestrial plants. While the specific applicability of these benchmarks to OU-4 invertebrate or plant communities is somewhat uncertain, uncertainties are biased conservatively, and these values are appropriate and conservative for screening soil for potential adverse effects. Soil benchmarks were selected or developed from the following sources, listed in order of preference:

- USEPA EcoSSLs Guidance (USEPA 2005, 2007)
- ORNL: Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants (Efroymson et al. 1997a) and Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes (Efroymson et al. 1997b)
- Lowest COPC-specific, non-background values for:
  - USEPA Supplemental Guidance to Risk Assessment Guidance for Superfund (RAGS): Region 4 Bulletins, Ecological Risk Assessment (USEPA 2015)
  - United States Fish and Wildlife Service Evaluating Soil Contamination (Beyer 1990) Values provided are considered conservative screening-levels equivalent to NOAEL-based TRVs

These benchmarks are considered conservative screening levels equivalent to NOAELs. Although the ORNL values are either the lowest reported low observed effect concentration (LOEC) or the 10th percentile of observed LOEC values, these values are assumed to be protective as studies were carried out under high bioavailability conditions or on unweathered spiked soils.

The soil PCB benchmark value from USEPA (2015) is based on equilibrium partitioning theory and a water quality benchmark predicted from the ECOSAR model (EPISuite software; USEPA 2012) for a saltwater mysid using the following equation:

$$ESV_{Soil\ Inverts} = WQB \times [K_{oc} + 0.145 + (0.207 * H')] \quad \text{(Equation 7 from USEPA 2015)}$$

Where:

$ESV_{Soil\ Inverts}$= Ecological Screening Value for soil invertebrates (mg/kg)

WQB = water quality benchmark (milligrams per liter [mg/L])

$K_{oc}$ = organic carbon partitioning coefficient (liters per kilogram [L/kg])

H’ = Henry’s Law Constant (unitless)

Because the log Koc for most PCBs is greater than the prediction interval for the ECOSAR model, alternate water quality benchmarks for aquatic invertebrates were selected. Fuchsman et al. (2006) calculated a Final Acute Value (FAV) of 6.96 micrograms per liter (µg/L) and a Final Chronic Value (FCV) of 0.54 µg/L, based on aquatic invertebrate toxicity data for 21 species from the USEPA AQUIRE database and USEPA (Stephen et al. 1985) methodology. The FAV/FCV values are based on protection for 95% of aquatic species, and for the OU-4 BERA, use of the FCV as the water quality benchmark was assumed to result in a soil ecological screening value (ESV) equivalent to a LOAEL using USEPA (2015) methodology. A LOAEL-equivalent soil ESV of 36 mg/kg was calculated using the aquatic invertebrate FCV (0.54 µg/L), Koc (66870 L/kg) predicted from the Aroclor 1254 Octanol / Water Partition Coefficient (Kow) (EPISuite; USEPA 2012), and Henry's Law constant for Aroclor 1254 (326.4) from USEPA (2016b). An uncertainty factor of ten was applied to estimate a NOAEL-equivalent soil ESV of 3.6 mg/kg.

Additionally, a LOAEL-equivalent soil benchmark for mercury of 0.23 mg/kg was selected. This benchmark is based on a study by Son et al. (2007), recommended by USEPA, in which springtail (*Paronychiurus kimi*) were exposed to spiked sediments containing mercuric chloride for 28 days. The EC50 for reduced offspring production per adult is 0.23 mg/kg, which is similar to the LOAEL for this endpoint in the Son et al. (2007) study.

# 3 PCB TRVS AND CTCS

This section describes the development of PCB dietary TRVs for wildlife (mammals and birds), as well as tissue-based CTCs for fish, invertebrates, small mammals, and bird eggs. Benchmarks, TRVs, and CTCs used in the OU-4 BERA are summarized in Table D-2.

## 3.1 Avian TRVs and Egg-based CTCs for PCBs

For the OU-4 BERA, avian PCB TRVs were developed based on the available toxicity data for all avian species including dietary TRVs and tissue-based TRVs for bird eggs. Individual avian studies were evaluated to select the most relevant study or studies based on the criteria described in Section 1 (i.e., relatedness of the test species, chronic duration/sensitive life stage of exposure, ecologically relevant endpoints, and minimal co-contaminants).

In considering the relatedness of the laboratory test species to the species of interest at OU-4, the relevance of the domestic chicken (*Gallus domesticus*; the most common test species in the toxicity dataset) to wild species was considered. While TRVs are most often based on species other than the actual receptor species being evaluated, as detailed in USEPA (2003), the use of laboratory-tested species to represent communities relies on the assumption that the tested species are an unbiased sample of the community. USEPA (2003) further explains that although test species are not chosen randomly, there is no reason to expect that the selection is biased because species sensitivities are unknown prior to testing. However, the available avian toxicological data clearly show that the domestic chicken is more sensitive to the effects of PCBs than the other species tested (Tables D-3 and D-4).

Recent research conducted by Dr. Sean Kennedy and others has focused on identifying specific mechanisms behind avian sensitivities to PCBs and other dioxin-like compounds (DLCs) (Karchner et al. 2006; Head and Kennedy 2010; Farmahin et al. 2012; Eng et al. 2014). This research has correlated differences in the genetic structure of the aryl hydrocarbon receptor (AHR) in avian species to species-specific sensitivity to DLCs. Specifically, research has demonstrated that there are three primary AHR types that are associated with high (type 1), moderate (type 2), and low sensitivity (type 3) to DLCs. The genetic sequence of the AHR has been identified and classified for more than 85 avian species, with the domestic chicken being identified as Type 1/most sensitive (Farmahin et al. 2012). European starling (*Sturnus vulgaris*) was recently also identified as having Type 1 sensitivity (Eng et al. 2014). Other identified species for which PCB toxicity studies are available include: pheasant (Galliformes; type 2), wild turkey (Meleagris; type 2), mallard (*Anas platyrhynchos*; type 3), kestrel (Falco; type 3), and double-crested cormorant (*Phalacrocorax auritus*; type 3). These relative sensitivities have been established based on the correlation between the available toxicological data (primarily embryo lethality endpoints) and the genetic sequences (Head et al. 2008; Head and Kennedy 2010). Seven of the eight receptor species for OU-4 are included in the wild species genetically sequenced to date (Table D-5), and all are either moderate or low sensitivity.

Based on the large disparity in the PCB datasets for chicken and other avian species and the fact that chickens are neither related to nor representative of wild species present in the OU-4, development of a range of TRVs to reflect the sensitivity ranges is provided herein. Two sets of avian TRVs were developed to represent the high end of the range of sensitivity (based on the chicken dataset) and the mid-range of sensitivity (based on the non-chicken dataset).

Based on the second criterion (i.e., chronic duration/sensitive life stage of exposure [Section 1]), studies with a relatively short duration (e.g., less than one month) were only considered if the dose was administered over the course of a sensitive life stage for reproductive effects (i.e., Call and Harrell 1974). Based on these criteria, endpoints such as biomarkers of exposure, pathology (without other supporting endpoints), and behavior were excluded.

Lastly, only studies that evaluated PCBs either as Aroclors or total PCBs without other constituents were considered. The toxicity of individual congeners may dramatically over- or under-estimate potential toxicity. In most cases, studies using individual congeners were conducted with the most toxic congeners (i.e., PCB 126 and PCB 77) and would overestimate potential toxicity of PCB mixtures. In other words, comparing toxicity based on an individual congener value would be equivalent to assuming that the total concentration of a mixture or mixtures found in the environment are made up of 100% of this congener. This is not a supportable assumption; therefore, individual congener studies were excluded from consideration. The specific selection of dietary- and egg-based PCB TRVs for high- and mid-range sensitivity species is described below.

### 3.1.1 Avian Dietary TRVs for PCBs

Avian dietary PCB NOAEL- and LOAEL-based TRVs were developed to represent the high end of the range of sensitivity and the mid-range of sensitivity for avian species. The NOAEL is generally selected as the highest NOAEL that is below the lowest LOAEL, and the LOAEL is the lowest relevant effect level observed. For dietary toxicity data, most studies reviewed reported doses as mg/kg in diet. Unless specified in the study, it was assumed all dietary doses provided were on a wet weight basis. To facilitate TRV development, it was necessary to convert these dietary values into body weight-normalized daily doses (mg/kg BW-d) using body weight and ingestion rate information for the test species. When this information was not available in the study, the body weight was taken from literature sources, and the ingestion rate was modeled using the allometric equation for all birds from Nagy (2001).

As discussed below, the NOAEL-based and LOAEL-based avian dietary TRVs for PCBs for the high sensitivity receptors are 0.043 mg/kg BW-d and 0.13 mg/kg BW-d, respectively. The NOAEL-based and LOAEL-based avian dietary TRVs for PCB for the mid-range sensitivity receptors are 0.47 mg/kg BW-d and 1.4 mg/kg BW-d, respectively. Tables D-3 and D-4 summarize the toxicity data considered for chicken and non-chicken species, respectively and details are provided below.

#### 3.1.1.1 High End of Sensitivity Range

Nine studies conducted with domestic chickens were initially considered in the selection of NOAEL and LOAEL TRVs for high sensitivity species. One study, Summer et al. (1996a, b), was excluded from further consideration due to co-contamination in the Great Lakes fish diet fed to the chickens. The literature data from the remaining eight studies considered are summarized in Table D-3.

From the eight studies considered, the LOAEL TRV is based on Lillie et al. (1974) in which a decline in chick growth was observed at 0.13 mg/kg BW-d Aroclors 1254 and 1248. These exposures were associated with an approximately 10% decrease in chick growth in the first group of hatches, but no effect was seen in the second group of hatches. Offspring mortality was not affected at this exposure concentration. This value is the selected LOAEL TRV for high sensitivity avian species. The chronic NOAEL of 0.043 mg/kg BW-d (Table D-2) was estimated by dividing the chronic LOAEL of 0.13 mg/kg

BW-d from the Lillie et al. (1974) study by an uncertainty factor of three. A factor of 10 is considered excessive (would result in 0.013 mg/kg BW-d) based on the range of the NOAEL data reviewed in which the lowest tested NOAEL was 0.065 mg/kg-BW-d (Table D-3).

#### 3.1.1.2 Mid-Range of Sensitivity

For mid-range sensitivity (i.e., non-chicken) species, a comprehensive dataset from the peer-reviewed literature was reviewed and considered to select NOAEL and LOAEL TRVs. A total of 14 studies were compiled for consideration, but a study by Custer et al. (1998) was rejected from further review because it was a field-scale study. From the remaining 13 studies, a total of 25 no-effect and 17 low-effect levels were observed for seven different non-chicken avian species, including Japanese quail (*Coturnix japonica*), mallard, American kestrel (*Falco sparverius*), and screech owl (*Megascops asio*) (type 3 species); ring-neck pheasant (*Phasianus colchicus*) (type 2 species); mourning dove (*Zenaida macroura*), ring dove (*Streptopelia capicola*) and white starling (*Sturnus vulgaris*) (unsequenced to date). The complete list of dietary PCB studies compiled for review for non-chicken avian species is provided in Table D-4.

The LOAEL from Koval et al. (1987) of 1.4 mg/kg BW-d was based on a study where mated mourning dove pairs were isolated for 28 days and fed pellets containing 10 mg/kg Aroclor 1254 or control feed ad libitum. At the end of the treatment period, the dividers were removed and observations on reproductive behaviors were initiated. Mourning doves exposed to PCBs at 10 mg/kg resulted in a lower percentage of treated females that laid eggs (35% reduction compared to control birds) and an increased time interval between nest occupation and egg laying (11 days for PCB-treated birds compared to 3 days for control birds). The dietary concentration was converted to a dietary dose of 1.4 mg/kg-BW-d using an ingestion rate of 15 grams per day (Taber 1928) and a body weight of 0.108 kilograms (kg) (MacMillen 1962). Although the study was not designed to measure this endpoint and the authors did not conduct a statistical analysis on the reduced egg laying or provide any statistical information regarding this result, this exposure concentration was selected as a LOAEL for the OU-4 BERA due to the significance of the effect on reproduction. This value is also consistent with an egg shell thinning LOAEL observed by Lowe and Stendell (1991) for American kestrels; however, the relevance of shell thinning to reproductive output is uncertain, and therefore was not selected as a LOAEL for the OU-4 BERA. The next lowest LOAEL available is from Dahlgren et al (1972), where a LOAEL of 1.8 mg/kg-BW-d was derived based on reduced hatching success in a chronic study conducted with ring-necked pheasants. The LOAEL of 1.4 mg/kg-BW-d from Koval et al. (1987) was selected as the dietary avian LOAEL TRV for PCBs for mid-range sensitivity (Table D-2).

To derive the NOAEL for mid-range sensitivity species, the chronic LOAEL from the Koval et al. (1987) study was divided by an uncertainty factor of three, resulting in the chronic NOAEL of 0.47 mg/kg BW-d (Table D-2). A factor of 10 is considered excessive (would result in 0.14 mg/kg BW-d) based on the range of the NOAEL data reviewed in which the lowest measured NOAEL was 0.41 mg/kg BW-d (see Table D-4).

### 3.1.2 Avian Egg-Based CTCs for PCBs

Five studies were available that reported PCB egg-based concentrations for chickens, and six studies were available for non-chicken avian species. Besides one egg injection study conducted by Gould et al.

(1997), all available studies applied dietary exposure routes and reported the resulting PCB egg concentrations from maternal transfer. Based on this research, two sets of CTCs were developed for PCBs. One represents the high end of the range of sensitivity and the second represents the mid-range of sensitivity for avian species.

A summary of the literature that was considered relevant is provided in Table D-6. Hoogesteijn et al. (2005) was excluded from further consideration. In Hoogesteijn et al. (2005), reproductive performance was determined in zebra finches (*Taeniopygia guttata*) exposed to 40 micrograms (µg) of Aroclor 1248. The median hatchling mortality was greater in exposed birds due to hypothermia or inanition, related to lack of maternal care. (The authors state that it is improbable that chicks died due to the mobilization of PCBs from the yolk, because egg residue levels were one to two orders on magnitude below levels reported to cause developmental abnormalities.) However, there was no statistical difference between groups for the median number of eggs per clutch, median number of eggs per pair, median number of hatchlings per clutch, and median number of fledglings per clutch. Thus, the results of this study are considered inconclusive with respect to production of young. As discussed in more detail below, the NOAEL-based and LOAEL-based avian PCB egg-based CTCs for the high sensitivity are 0.52 mg PCB/kg egg ww and 1.13 mg PCB/kg egg ww, respectively. These values were converted to dry weight assuming a 75% moisture content in bird eggs (Ahn et al. 1997). Resulting NOAEL and LOAEL egg-based CTC values for the high sensitivity group are 2.1 and 4.5 mg PCB/kg egg dw, respectively. The NOAEL-based and LOAEL-based avian PCB egg-based CTCs for the mid-range sensitivity are 7.1 µg PCB/g egg ww and 17 mg PCB/kg egg ww, respectively. These values were converted to dry weight assuming a 75% moisture content in bird eggs (Ahn et al. 1997) resulting in NOAEL and LOAEL egg-based CTC values for the mid-range sensitivity of 28 mg PCB/kg egg dw and 66 mg PCB/kg egg dw, respectively (Table D-2).

#### 3.1.2.1 High End of Sensitivity Range

Five reproductive NOAELs and five corresponding reproductive LOAELs were considered in CTC derivation. The lowest LOAEL and highest NOAEL that were below the lowest LOAEL were both from a study conducted by Britton and Huston (1973) in which white leghorn chickens were exposed to five doses of Aroclor 1242 in their diet for up to 42 days. A slight but significant reduction (18%) in egg hatchability was observed after 6 weeks of exposure at a dietary concentration of 10 mg/kg, though egg hatchability at this dose improved during a subsequent recovery period and was not significantly different from control. This dietary concentration corresponded to a PCB concentration in the egg yolk of 3.7 mg/kg. This egg yolk concentration was converted to a whole egg basis using whole egg and yolk weights reported in the literature, as shown in Table D-6. Thus, the derived NOAEL and LOAEL from this study are 0.52 and 1.1 mg PCB/kg egg ww, respectively. This is the lowest available LOAEL for chicken species and is also below two bounded reproductive NOAELs. These values were converted to dry weight assuming a 75% moisture content in bird egg tissue (Ahn et al. 1997) resulting in NOAEL and LOAEL egg-based CTC values of 2.1 and 4.5 mg PCB/kg egg dw, respectively.

As a point of reference, a CTC derived from this dataset following EcoSSL methods would equal the geometric mean of the bounded reproductive NOAELs, which is equal to 0.88 µg PCB/g egg ww (3.5 µg PCB/g egg dw assuming 75% moisture content in bird egg tissue [Ahn et al. 1997]), representing a value near the middle of the bounded NOAEL and LOAEL selected. This indicates that the selected CTCs are conservative. In addition, the derived NOAEL and LOAEL values span a narrow range of concentrations (NOAEL is less than a factor of 3 of the LOAEL), which results in a higher level of confidence surrounding

the true effect threshold. However, because these thresholds rely on a yolk to whole egg conversion factor from the literature, there is some uncertainty associated with these values. Potential toxicity is likely overestimated (conservative) because these are the lowest NOAEL and LOAEL values among studies reporting similar endpoints and study designs.

#### 3.1.2.2 Mid-Range of Sensitivity

Five studies were available that reported exposures as PCB egg concentrations for four non-chicken avian species, including the mallard (type 3 species), American kestrel (type 3 species), ring dove (type 2 species), and screech owl (type 2 species). However, only a single dietary dose was tested in each of these studies resulting in no bounded effect levels. The lowest LOAEL available was from a study conducted by Peakall et al. (1972), in which ring doves were exposed to a single dietary dose of 10 mg/kg/day of Aroclor 1254 over two generations. This dietary dose corresponded to a measured egg concentration of 16.5 mg PCB/kg egg ww (66 mg PCB/kg egg dw assuming 75% moisture content in eggs [Ahn et al. 1997]). There was low hatching and fledging success (83% reduction in hatching and 92% reduction in fledging compared to controls) in the second generation due to heavy embryonic mortality. However, the second generation eggs had similar levels of PCBs as the first generation eggs; therefore, as stated by the authors, the increased embryonic mortality was not caused by the increased level of PCBs. The low reproductive success is attributed instead to reduced parental attentiveness as hatching success was similar to controls in a follow-up study where exposed eggs were artificially incubated (Peakall and Peakall 1973). Because exposure duration spanned a critical lifestage (i.e., reproductive cycle) and this study reported measured egg concentrations, thus reducing uncertainty associated with a dosage conversion, this LOAEL represents a toxicity result of sufficient quality. Although the exposure produced a high level of embryonic mortality, a lower LOAEL is not available for mid-sensitivity birds and several studies report NOAELs at similar concentrations (see below). Uncertainty related to the use of this LOAEL is discussed in the risk characterization section of the OU-4 BERA.

The highest reproductive NOAEL below this LOAEL was reported by McLane and Hughes (1980) in a dietary study in which screech owls were fed a dosage of 3 mg/kg Aroclor 1248 for eight weeks prior to egg-laying and continued through two breeding seasons, thus incorporating a critical reproductive lifestage (Table D-6). This dietary dosage resulted in an average PCB egg concentration of 7.1 mg/kg egg ww (28 mg PCB/ kg egg dw assuming 75% moisture content in bird egg tissue [Ahn et al. 1997]). At this treatment level, no adverse effects were observed on clutch size, hatchling success, fledging success, or eggshell thickness. This no-effect level is similar to that reported in two independent field studies (Bishop et al. 1999, Jayaraman et al. 2009) with tree swallows (type 2 species), in which no effect on clutch size, hatching success, or nesting attempts were found at egg concentrations of 11.2 mg/kg egg ww (45 mg PCB/ kg egg dw assuming 75% moisture content in bird egg tissue [Ahn et al. 1997]). The range of toxicological effect levels varied substantially across chicken and non-chicken avian species. The lowest chicken LOAEL was about 30-fold less than the lowest available non-chicken LOAEL. For further comparison, the geometric mean of all chicken LOAELs equals 3.3, which is an order of magnitude less than the lowest non-chicken LOAEL. In addition, a study conducted by Haseltine and Prouty (1980) indicated no adverse effects on mallard reproduction endpoints when egg-based concentrations exceeded 100 mg PCB/kg egg ww (400 mg PCB/kg egg dw assuming 75% moisture content in bird egg tissue [Ahn et al. 1997]). Thus, although the non-chicken dataset is limited by a lack of bounded effect concentrations,

it is concluded that the identified NOAELs and LOAELs provide suitable CTC thresholds for the mid-range of sensitivity because the lowest range of potential adverse effects is bounded by the chicken dataset.

## 3.2 Mammalian TRVs for PCBs

Following USEPA guidance (1997), TRVs for mammals were developed based on endpoints that could result in population-level impacts such as survival, reproduction, development, and growth. As with avian species, the available toxicity data indicate that mink are more sensitive to PCBs than other mammalian species. Available toxicity data for all mammalian species were considered initially. Because the data for mink indicate that mink are likely more sensitive than most other mammalian species (e.g., Aulerich et al. 1985), mink TRVs were developed separately from non-mink small mammal TRVs. For non-mink small mammals, both dietary-based and tissue-based TRVs were developed. For mink, the toxicity data for whole body mink tissue were insufficient to develop mink specific tissue-based TRVs. Thus, only dietary TRVs for PCBs were developed for mink.

### 3.2.1 Non-Mink Mammalian Dietary TRVs for PCBs

A total of 10 studies were considered in the development of dietary TRVs for PCBs for small mammal species (Table D-7). The mouse and rat comprise most of the available species data, with the exception of two studies reporting toxicity results for the ferret and rabbit. A study conducted by McCoy et al. (1995) reported the lowest effect level of the available data and was selected as the basis for the LOAEL TRV. McCoy et al. (1995) was a multigenerational study with mice and a single dietary exposure of 5 mg/kg Aroclor 1254 for 12 months. This dietary concentration was converted to a daily dose of 0.68 mg/kg BW-d which was selected as the LOAEL TRV (Table D-2), by using a mouse food ingestion rate of 0.135 kilograms per kilogram of body weight per day (kg/kg BW-d) reported by Linzey (1987) but not reported by McCoy et al. (1995). This dosage elicited significantly fewer (31%) offspring born per month and 13 to 15% reduced body weights of newborn mice. Only two sets of bounded NOAEL and LOAEL values were available; however, these NOAELs were higher than the TRV selected for the LOAEL. Thus, a NOAEL TRV of 0.23 mg/kg BW-d (Table D-2) was derived by applying an extrapolation factor of three to the LOAEL. A factor of 10 would have been excessive (would result in 0.068 mg/kg BW-d) based on the fact that the other NOAELs available for non-mink small mammals were higher than the TRV selected for the LOAEL.

### 3.2.2 Mink Dietary TRVs for PCBs

The available toxicological studies were compiled and reviewed to select a TRV for mink and other potentially sensitive mustelid species that may be exposed to PCBs. Only studies in which dietary exposure to Aroclors and total PCBs was reported and evaluated were considered. Twenty studies were initially considered for TRV development. Of these, five were excluded from further consideration because the endpoints assessed were not appropriate for risk assessment (Bäcklin and Bergman 1992; Bergman et al. 1992a, b; Brunstrom 1992; Edqvist et al. 1992; and Hakansson et al. 1992). Table D-8 summarizes the remaining 15 toxicity studies that were considered for TRV development. The studies where co-contamination from Saginaw Bay fish that were used for dosing may have influenced toxicity are Restum et al. (1998), Heaton et al. (1995), and Hornshaw et al. (1983).

Two multi-generational studies have been conducted with mink and PCBs (Brunstrom et al. 2001; Restum et al. 1998). The Restum et al. (1998) study was conducted with field-contaminated fish collected from Saginaw Bay, and the Brunstrom et al. (2001) study was a controlled dosing study conducted with Clophen A50. The Brunstrom et al. (2001) study was not considered further because the test compound used was a technical grade Clophen A50, which is a technical mixture that contains approximately three times more dioxin toxic equivalent (TEQ) per unit than Aroclor 1254. Because the Anniston PCB Site contamination is a weathered mixture of PCB congeners, the use of a high TEQ technical mixture is not considered representative. Unlike the fish tissue dataset, the toxicity dataset for mink includes a number of studies with similar dose concentrations to the Clophen A50 study. Thus, the Clophen A50 study was not considered further in the selection of the TRV as the over-conservative uncertainty bias is unnecessary given the greater range of available data.

Restum et al. (1998) observed a significant reduction in kit body weights after parental exposure to 0.25 mg/kg PCBs in fish (0.05 mg/kg BW-d as reported by the authors) and significant reduction of kit survival at a parental exposure concentration of 0.5 mg/kg (0.1 mg/kg BW-d). Although the Restum et al. (1998) study was conducted with co-contaminated fish collected from Saginaw Bay and the Brunstrom et al. (2001) study was conducted with Clophen A50, a similar trend of increased effects with longer exposure was observed in both studies. Due to the lack of multigenerational studies with mink, TRVs derived from a single breeding season study may be limiting for understanding chronic effects (multiple generations). The observed difference between effects of exposures for one versus multi-generation breeding seasons can be significant and therefore, results from the multi-generation studies were included in the TRV derivation.

Two sets of TRVs based on the Restum et al. (1998) study were evaluated at the request of USEPA, based on growth endpoints or reproductive endpoints. The lowest LOAEL is based on a 15 to 25% reduction in kit growth at 3 or 6 weeks of age. For the growth endpoint, a LOAEL of 0.05 mg/kg BW-d was selected. A paired NOAEL is not available. However, the endpoint affected was decreased kit weight, and the biological relevance of this effect is uncertain. While progeny growth has been identified as an ecologically relevant endpoint in the EcoSSL documents (USEPA 2003), body weight can be affected by various aspects of a study in addition to chemical toxicity, and without additional toxicity endpoints, kit weight may not be an appropriate measure of population-level effects. Therefore, a second scenario based on reproductive endpoints was also evaluated. For the reproductive endpoint, the NOAEL and LOAEL values are 0.05 mg/kg BW-d and 0.10 mg/kg BW-d, respectively, with exposure at the LOAEL concentration resulting in 85% reduction in kit survival.

To summarize, a reproductive LOAEL of 0.10 mg/kg BW-d and a NOAEL of 0.05 mg/kg BW-d from the Restum et al. (1998) study were used as the mink dietary TRVs. Due to the elevated mortality at the LOAEL concentration and potential for co-contamination with other constituents from the Saginaw Bay fish used for dosing, a second scenario was considered. Mink dietary TRVs based on the growth endpoint from the Restum et al. (1998) study using the growth LOAEL value of 0.05 mg/kg BW-d. Uncertainty related to use of these TRVs is discussed further in the Uncertainty Analysis (Section 6.2) of the OU-4 BERA.

### 3.2.3 Mammalian Tissue-Based CTCs for PCBs

Standard literature sources such as USEPA ECOTOX database (USEPA 2016c), California Cal/Ecotox (Office of Environmental Health Hazard Assessment [OEHHA] 2009), and PCBRes (USEPA 2009) were

queried to identify CTCs for tissue residues in biota (tissue-based CTCs). An effort was made to develop wildlife tissue-based CTCs for small mammal whole body tissue. A PCB tissue-based CTC was developed for small mammals based on a series of studies included in the PCBRes database (USEPA 2009).

A total of nine studies were evaluated in the derivation of PCB tissue-based CTCs for mammals (Table D-9). These studies were selected because whole organism residue data were paired to NOAEL – and in some cases LOAEL – responses. Consistent with the criteria discussed earlier, studies that only measured residues in specific tissues or organs and studies that evaluated single congeners were not used.

Of these nine studies, one study (Arena et al. 2003) was eliminated because the route of exposure was subcutaneous injection, which is not an appropriate exposure route for risk assessment for field exposure at OU-4. The route of exposure for the remaining eight studies was dietary though mixture of the test compounds with food or water. Additionally, studies that evaluated PCB residue concentrations in fetuses or offspring were not evaluated further – only studies that evaluated the link between measurement endpoints and tissue residue concentrations in the same organism were evaluated. These criteria eliminated from further consideration studies by Zabik et al. (1997) and Welsch (1985) as well as a subset of endpoints reported in McCoy et al. (1995) and Masuda et al. (1979). Because the endpoints assessed in the Segre et al. (2002) study were not associated with growth, reproduction, or mortality, this study was not considered further.

Two of the seven remaining studies reported LOAEL tissue burdens—McCoy et al. (1995) and Clark and Prouty (1977). The McCoy study resulted in the lower of the two LOAELs and also provides a NOAEL. In this study, reductions in offspring were observed in the F1 generation dosed with 5 mg/kg Aroclor 1254 in food. This dose resulted in a mean tissue burden for the F1 generation of 7.51 mg/kg, with a range of 3.1 to 12.5 mg/kg. The NOAEL is from the P1 generation and is 3.3 mg/kg, with a range of 0.44 to 7.23 mg/kg. Because this is a multigenerational study in which each successive generation was dosed and because the effects were relevant reproductive effects, a NOAEL tissue-based CTC of 3.3 and a LOAEL tissue-based CTC of 7.2 mg/kg were selected for the OU-4 BERA. The concentrations were assumed to be in wet weight, and were converted to dry weight concentrations of 10 and 23 mg/kg BW-d respectively, assuming 32% solids (USEPA 1993).

## 3.3 Fish Tissue-Based CTCs for PCBs

Established tissue-based CTCs protective of fish are not currently available; however, tissue residue-based effects data exist and are used to support the development of tissue-based CTCs protective of fish for PCBs. The approach used to develop the tissue-based fish CTCs for PCBs and other COPCs included the following steps:

- Databases containing relevant tissue-based toxicological data were queried, and potentially relevant data were compiled. Databases queried included the Environmental Residue Effects Database (ERED, http://el.erdc.usace.army.mil/ered). Additional sources of tissue-based toxicological data for fish included Jarvinen and Ankley (1999) and Meador et al. (2002).
- The initial queries focused on studies related to survival, mortality, reproduction, and growth endpoints. Other endpoints such as behavioral, physiological, biochemical, and cellular were not

considered based on recognition of the uncertainty associated with the ecological relevance of such endpoints.

- The initial data queries were then refined by excluding test results for species inappropriate for OU-4 (e.g., salmonids, which are cold-water species and do not occur naturally within OU-4).
- The initial data queries were then further reduced by exclusion of tissue residue data measured in tissue types not consistent with the sampling approach described in the *Phase 2 Field Sampling Plan for OU-4, Revision 2* (OU-4 Phase 2 FSP; Arcadis 2010). Specifically, only whole body tissue samples were collected to support ecological risk assessment; thus the dataset for fillet or organ tissues were not included. These refinements removed approximately half of the records initially queried.
- The remaining records were then reviewed to identify the relatively lower (more conservative/protective) no effect and low effect levels, which indicated a potential dose response.

Scientific literature was used to identify the range of PCB concentrations associated with adverse effects on survival, growth, and reproductive success in fish. The literature was screened using the criteria summarized above. Of the literature reviewed for the effects of PCBs on fish species, eight met the screening criteria (Table D-10). None of the studies retained referred to controlled toxicity studies performed directly on the species for which tissue concentrations have been measured in OU-4. Because early lifestage developmental endpoints are shown to be the most sensitive to PCBs, the adult survival data were not used in the derivation of the tissue threshold concentration range. A laboratory study by the U.S. Army Corps of Engineers (Dillon and Engler 1988) that investigated fecundity and frequency of spawning in fathead minnows (*Pimephales promelas*) (relative to controls after seven weeks of exposure) was omitted from the evaluation because the exposure media was field-collected sediment that may have been impacted by contaminants other than PCBs. The results for the eight studies are summarized in Table D-10.

Reported tissue NOAELs ranged from 1.6 mg/kg ww for egg time to hatch in minnow (*Phoxinus phoxinus*) (Bengtsson 1980) to 6,300 mg/kg ww for growth in the F2 generation of fathead minnow (DeFoe et al. 1978). Reported tissue LOAELs ranged from 1.1 mg/kg ww for increased mortality in juvenile zebrafish (*Danio rerio*) (Orn et al. 1998) to 4,500 mg/kg ww for growth in the F2 generation of fathead minnow (DeFoe et al. 1978). The Hansen et al. (1974a) study evaluated reproductive effects in sheepshead minnows (*Cyprinus variegates*) treated with Aroclor 1254 at six dose levels in water (0, 0.09, 0.14, 0.39, 1.1, and 5.6 µg/L). This study reported a NOAEL tissue concentration based on fry survival of 1.9 mg/kg ww. A second study reported a similar NOAEL value of 1.6 mg/kg ww (Bengtsson 1980). This study exposed the minnow to Clophen A50. Clophen A50 is a technical mixture that contains approximately three times more dioxin TEQ per unit than Aroclor 1254. This would likely overestimate risk to fish exposed to PCBs from OU-4 because the Anniston PCB Site contamination is a weathered mixture of PCB congeners which has a lower TEQ concentration than Clophen A50. Because of the high TEQ concentration relative to the site and because the results from this study are only slightly lower than the results from the Hansen (1974a) study, the NOAEL from Hansen of 1.9 mg/kg ww is selected as the NOAEL CTC for fish tissue.

The study by Hansen et al. (1974a) was also selected as the basis for the LOAEL CTC of 9.3 mg/kg ww. The dose concentration of 0.14 µg/L resulted in a tissue concentration of 9.3 mg/kg ww in female fish tissue, which resulted in a 26% decrease in fry survival. This value is selected as the LOAEL PCB fish

tissue CTC. Only one study reported a lower LOAEL value (Orn et al. 1998). This study was not selected as the basis for the LOAEL CTC because the study specifies that the analysis of PCBs does not represent a whole-body analysis as the livers and ovaries were dissected prior to the analysis.

To summarize, for PCBs, the NOAEL fish tissue CTC of 1.9 mg/kg ww and a LOAEL fish tissue CTC of 9.3 mg/kg ww were selected for use in the OU-4 BERA to evaluate potential risk to fish communities (Table D-2). These values were converted to dry weight assuming a 73% moisture content in tissue (based on average moisture content of fish from OU-4) resulting in a NOAEL and LOAEL fish-based CTCs of 7.0 and 34 mg/kg dw.

## 3.4 Invertebrate Tissue-Based CTCs for PCBs

Established tissue-based CTCs protective of terrestrial and aquatic invertebrates are not currently available; however, limited tissue residue-based effects data exist and are used to develop tissue-based CTCs at the request of USEPA. Similar to the approach used for fish, the approach used to develop the tissue-based invertebrate CTCs for PCBs included the following steps:

- Databases containing relevant tissue-based toxicological data were queried, and potentially relevant data were compiled. Sources included the ERED database (http://el.erdc.usace.army.mil/ered), Jarvinen and Ankley (1999), and studies recommended by USEPA.
- The initial queries focused on studies related to survival, mortality, reproduction, and growth endpoints. Other endpoints such as behavioral, physiological, biochemical, and cellular were not considered based on recognition of the uncertainty associated with the ecological relevance of such endpoints.
- If sufficient data were available, the initial data queries were then refined by excluding test results for species inappropriate for OU-4 (e.g., saltwater species).
- The initial data queries were then further reduced by exclusion of tissue residue data measured in tissue types not consistent with the sampling approach described in the OU-4 Phase 2 FSP (Arcadis 2010). Specifically, only whole body tissue samples were collected to support ecological risk assessment; thus the dataset for individual organ tissues were not included.

The remaining records were then reviewed to identify the relatively lower (more conservative/protective) no effect and low effect levels, which indicated a potential dose response. Due to the extremely limited datasets for some tissue types, acute effects data were included and an acute-to-chronic uncertainty factor was applied for exposures less than seven days in duration.

### 3.4.1 Oligochaetes (Aquatic Worms)

Five studies were identified that contain relevant data for development of tissue CTCs for aquatic worms, which were considered to include any infaunal worm species. Data were available for three polychaete species and the oligochaete *Lumbriculus variegatus* (Table D-11). The lowest LOAEL is from a 35-day chronic study by Fisher et al. (1999) in which *Lumbriculus* were fed algal solutions containing one of four PCB congeners spanning a range of chlorination (2-monochlorobiphenyl, 4,4'-dichlorobiphenyl, 2,2'4,4'tetrachlorobiphenyl, and 2,2,4,4,5,5'-hexacholorobiphenyl). Lethal and sub-lethal chronic residues were measured. After 35 days, mortality was observed only at the highest exposure concentrations, and

data were not sufficient for calculation of LC50s because few organisms died. The average lethal concentrations in dead organisms for the four PCB compounds ranged from 0.88 to 1.35 micromoles per kilogram (mmol/kg) and were not significantly different from each other. Sub-lethal effects were measured by changes in biomass and reproduction (number of organisms at 35 days). In tissue, molar concentrations ranging from 0.343 to 0.532 mmol/kg ww were associated with a 20 to 38% reduction in organism number relative to controls. This response was consistent across PCB congeners. NOAEL effect concentrations ranged from 0.169 to 0.283 mmol/kg ww. Significant differences in biomass were also observed at the same effect levels.

Although the Fisher et al. (1999) study used PCB congeners and not mixtures, it was selected for CTC development due to the limited dataset for worms, good experimental design, chronic endpoints, consistent response across congeners at varying levels of chlorination, and availability of LOAEL tissue residue data for polychaetes at higher concentrations (Fowler et al. 1978). In Fisher et al. (1999), the low end of the range of LOAELs (0.343 mmol/kg ww) was converted to a wet weight concentration of 112 mg/kg, assuming a molar equivalent Aroclor 1254 concentration (326 grams per mol). The highest NOAEL below the LOAEL (0.283 mmol/kg ww) was similarly converted to a wet weight concentration of 92 mg/kg ww. These NOAEL and LOAEL values were converted to dry weight concentrations of 541 and 659 mg/kg dw, respectively, assuming 17% solids (Landrum et al. 2004).

### 3.4.2 Aquatic Emergent Insects

Only two studies were identified with relevant emergent insect tissue data. Five species were tested, including mayfly (*Ephemeroptera sp.*), midge (*Chaoborus punctipennis*), giant black stonefly (*Pteronarcys dorsata)*, and mosquito (Culicidae) (Table D-12). Only unbounded NOAELs are available. The highest NOAEL is 6.5 mg/kg ww for the midge for which no effect on survival was found after 14 days exposure to sediment and water containing Aroclor 1254 (Sanders and Chandler 1972). This NOAEL CTC was converted to a dry weight concentration of 21 mg/kg dw, based on the average site-wide emergent insect solids content of 31% for OU-4.

### 3.4.3 Aquatic Odonate Larvae / Epibenthic Invertebrates

No odonate-specific tissue toxicity data were located, therefore other epibenthic arthropod species were considered suitable as surrogate receptors. Three studies representing three amphipod species were identified with relevant tissue toxicity data (Table D-13). The lowest LOAEL is 76 mg/kg ww, based on 40% reduction in young produced per surviving adult in 60 day flow-through aqueous exposure to Aroclor 1242 (Nebeker and Puglisi 1974), and was associated with a dissolved concentration of 2.8 µg/L. Note however, that there was poor control survival after 60 days, and the total number of offspring at the 2.8 µg/L exposure dose was slightly greater than in the control group. In that study, *Gammarus pseudolimnaeus* were less sensitive to Aroclor 1248 for which a statistically significant reduction in offspring production did not occur until 552 mg/kg ww. The LOAEL value of 76 mg/kg ww was selected to evaluate odonate tissue in the OU-4 BERA. A paired NOAEL from the same study and endpoint is not available.

The highest NOAEL below the selected LOAEL is from a study by Borgmann et al. (1990), in which there was no effect found on survival, growth, or reproduction (number of young produced) after a 10-week chronic exposure of the amphipod *Hyalella azteca* to 30 µg/L Aroclor 1242. Exposures were static with

renewal, and gauze was the only substrate in the test chamber. The resulting tissue concentration at this exposure concentration was 28 mg/kg ww. No amphipods survived the highest test concentration of 100 µg/L, and therefore a paired LOAEL is not available from this study. The NOAEL value of 28 mg/kg ww was selected to develop the tissue CTC.

The selected NOAEL and LOAEL CTCs were converted to dry weight concentrations of 158 and 422 mg/kg dw, respectively, based on the average site-wide odonata solids content of 18% for OU-4.

### 3.4.4 Aquatic Molluscs

Four studies were identified that contain relevant data for development of tissue CTCs for molluscs. These studies include data for two common mollusc species (Table D-14). A LOAEL of 33 mg/kg ww available from Duke et al. (1970) was not considered appropriate for CTC development because the measured endpoint was oyster shell growth, which varies in response to a variety of environmental factors and is not considered predictive of organism health. A LOAEL of 32 mg/kg ww available from Hansen et al. (1974b) was also excluded because oysters were exposed to Aroclor 1016, which is not present in OU-4. The only other available LOAEL is based on a study by Lowe et al. (1972) in which juvenile oysters exposed to 5 µg/L Aroclor 1254 in 12-week flow-through exposures had a 25% reduction in whole body weight after 12 weeks exposure. A greater than 20% reduction in growth relative to controls was assumed to be equivalent to a LOAEL concentration. Aroclor 1254 concentrations in the soft tissue after 12 weeks were approximately 150 mg/kg ww. Note, however, that much higher tissue concentrations (425 mg/kg ww) were reached at the end of the 24-week exposure period during which mortality was negligible, positive growth continued, and weight reduction relative to controls was approximately 33%. The Aroclor residues were readily depurated during the 28-week exposure to PCB-free water. After 24 weeks exposure to a slightly lower concentration (1 µg/L) of Aroclor 1254, there was no effect on oyster weight. Free-swimming larvae were observed to set and grow at this concentration as well. The associated tissue residue was 101 mg/kg ww. A NOAEL of 101 mg/kg ww and LOAEL of 150 mg/kg ww were selected from Lowe et al. (1972) to evaluate mollusc tissue concentrations in OU-4.

The selected NOAEL and LOAEL tissue concentrations were converted to dry weight concentrations of 1263 and 1875 mg/kg dw, based on the average site-wide mollusc solids content of 8% for OU-4.

### 3.4.5 Aquatic Crayfish

Five studies were identified with relevant data for development of tissue CTCs for crayfish. These studies include data for three species of shrimp, a crayfish, and a crab (Table D-15). Two LOAELs of 1.8 and 3.8 mg/kg ww available from Hansen et al. (1974b) were excluded because shrimp were exposed to Aroclor 1016, which is not present in OU-4. An additional LOAEL of 3.9 mg/kg ww reported by Duke et al. (1970) was not considered appropriate for CTC development because the measured endpoint was mortality in a 48-hour exposure at high concentrations (100 µg/L) and survival was greater at higher tissue concentrations in 20-day exposures conducted at 5 µg/L in the same study. In the 20-day exposures, pink shrimp (*Penaeus duorarum*) were exposed in flow-through chambers containing Aroclor 1254 concentrations that ranged from 3.8 to 4.2 µg/L and resulted in 72% mortality at test conclusion. Lethal tissue residues averaged 16 mg/kg ww (57 mg/kg dw, based on average 28% solids content for site crayfish), whereas the average tissue concentration in the surviving shrimp was 33 mg/kg ww. The lethal tissue residue concentration of 16 mg/kg ww reported by Duke et al. (1970) was selected as the LOAEL-

equivalent concentration. Additional effects data for grass shrimp (*Palaemonetes pugio*) exposed to Aroclor 1254 (Nimmo et al. 1974) indicate lower sensitivity as a 16-day exposure resulted in 45% mortality at tissue residues of 27 mg/kg ww, whereas no significant decrease in survival was observed at tissue concentrations of 18 mg/kg ww.

The highest NOAEL (15 mg/kg ww, assuming 28% solids) below the selected LOAEL CTC of 16 mg/kg ww is based on 96-hour survival data for *Daphnia magna* (Sanders and Chandler 1972). This study also reports 21-day exposures for a variety of species, including glass shrimp (*Palaemonetes kadiakensis*) which had the next highest NOAEL value of 21.6 mg/kg dw (6.0 mg/kg ww, assuming 28% solids). The longer duration grass shrimp test with lower exposure concentrations (~1.5 µg/L Aroclor 1254) was considered more relevant than acute data for a cladoceran. Therefore, the NOAEL of 6.0 mg/kg ww based on survival was selected to evaluate crayfish. Note that a crayfish specific NOAEL of 6.1 mg/kg dw (1.7 mg/kg ww, assuming 28% solids) was also reported by Sanders and Chandler (1972).

### 3.4.6 Terrestrial Earthworms

Laboratory-based earthworm tissue residue data are limited. Two studies containing earthworm residues were identified (Table D-16). The lowest LOAEL is from a study by Rodriguez-Grau et al. (1989) in which earthworms (*Lumbriculus terrestris*) were exposed for five days to filter paper containing Aroclor 1254. There was a 25% reduction in survival at tissue concentrations of 834 mg/kg dw (183 mg/kg ww, assuming 22% solids as reported in the study), which was assumed to be a LOAEL-equivalent tissue residue. The paired NOAEL for this endpoint is 780 mg/kg dw (172 mg/kg ww). The only other LOAEL-equivalent value is from a similar study by Fitzpatrick et al. (1992) in which earthworms (*Eisenia foetida*) were exposed to filter paper containing Aroclor 1254. After 5 days, tissue residues of 2,900 mg/kg dw (638 mg/kg ww, assuming 22% solids [Rodriguez-Grau et al. 1989]) were associated with a 25% reduction in survival.

The paired NOAEL and LOAEL values of 172 and 183 mg/kg ww, respectively, were selected as the basis for tissue CTCs to evaluate OU-4 earthworm data. The effect concentrations were multiplied by an acute-to-chronic uncertainty factor of 0.1 to calculate the NOAEL CTC of 17 and LOAEL CTC of 18 mg/kg ww. These concentrations equate to 78 mg/kg dw and 83 mg/kg dw, respectively.

### 3.4.7 Terrestrial Crickets / Grasshoppers

Tissue residue data relevant for evaluation of epigeous soil insects (grasshoppers and crickets) were identified in a single study by Paine et al. (1993). In that study, cricket nymphs (*Acheta domesticus*) were exposed for 14 days to spiked soils containing Aroclor 1254 concentrations up to 2,000 mg/kg. Tissue residues in the surviving crickets were measured. The study LOAEL of 144 mg/kg ww is associated with 39 to 49% survival relative to controls, whereas tissue concentrations of 92 mg/kg ww had no effect on survival. The paired NOAEL and LOAEL concentrations were selected as PCB CTC for evaluation of cricket and grasshopper tissues collected in OU-4.

The selected NOAEL and LOAEL tissue concentrations were converted to dry weight concentrations of 307 and 480 mg/kg dw, assuming a tissue solids content of 30% (Paine et al. 1993).

# 4 MERCURY TRVS AND CTCS

This section describes the development and selection of dietary bird and mammal TRVs and bird egg and invertebrate tissue-based CTCs for mercury. Data were insufficient to develop small mammal tissue-based CTCs for mercury. TRVs and CTCs are summarized in Table D-2.

## 4.1 Avian Dietary TRVs and Egg-Based CTCs for Mercury

As a part of the Great Lakes Water Quality Initiative Criteria Documents for the Protection of Wildlife (USEPA 1995), dietary NOAEL and LOAEL TRVs for mercury were selected based on evaluation of the range of underlying studies available in the peer-reviewed literature. As a part of this process and outlined in the criteria document (USEPA 1995), a comprehensive literature search was conducted, and the evaluation focused on studies that included dose-response data. Studies with both methylmercury and inorganic forms of mercury were considered with birds demonstrating much greater sensitivity to methylmercury than inorganic forms.

### 4.1.1 Avian Dietary Mercury TRVs

Unlike PCBs, chickens do not appear to be more sensitive to mercury than other wild avian species (Heinz et al. 2009). As such, one set of TRVs is developed herein and will be considered applicable to all avian species evaluated for OU-4. The studies considered in the USEPA (2005) criteria document focus on endpoints that could result in population-level impacts such as survival, reproduction, development, and growth.

Because the TRVs provided in the criteria document (USEPA 1995) are based on a literature search conducted in or prior to 1995, other more recent toxicity studies for mercury, which may have evaluated more sensitive endpoints (e.g., nest productivity, fledging) or species (e.g. ibis, kestrel, egret), were reviewed. Specifically, three studies were identified that provided dose-response data for dietary mercury. These included Albers et al. (2007), Spalding et al. (2000), and Frederick and Jayasana (2011). Albers et al. (2007) studied the effects of methylmercury on reproduction of American kestrels and determined the dose of 0.08 mg/kg BW-d[2] resulted in a reduced number of fledglings and decreased percent of nestlings fledged. Frederick and Jayasana (2011) exposed white ibises (*Eudocimus albus*) to dietary methylmercury concentrations of 0.05, 0.1, or 0.3 mg/kg ww for 3.5 years. All three dose groups had significantly more unproductive nests than control birds with loss of productivity of 13.2, 14.6, and 13.5% for low, medium, and high doses, respectively. The study also found increased homosexual pairing behavior at a dose of 0.1 and 0.3 mg/kg in diet. There were no significant differences or dose-response in the number fledglings per female across all dose groups with low-dose females fledging 33.5% fewer young per female, medium-dose females fledging 4% more young per female, and high-dose females fledging 34.8% fewer young per female than control. Converting the food concentrations to a daily dose, the range of doses was 0.01 to 0.1 mg/kg BW-d[3] for the range of endpoints evaluated in the study. While the ecological relevance of all of the measured endpoints (e.g., altered pairing behavior) and observed effects to local populations of birds is not clear, the selected LOAEL TRV for the OU-4 BERA for mercury is within this range. The

[2] Dose calculated from LOAEL of 0.26 mg/kg ww in diet using a food ingestion rate for kestrel from USEPA (1993) of 0.31 kg/kg BW-d.
[3] Dose calculated from the dietary concentrations using a food ingestion rate and body weight for ibises taken from Kushlan (1977a,b).

selected LOAEL TRV is based on a study conducted by Spalding et al. (2000). The study determined that dietary methylmercury resulted in adverse effects on growth of great egret nestlings at the low dose of 0.068 mg/kg BW-d[4]. The selected LOAEL of 0.068 mg/kg BW-d from the Spalding et al. (2000) study was divided by an uncertainty factor of three, resulting in the chronic NOAEL of 0.023 mg/kg BW-d (Table D-2). A factor of 10 is considered excessive (would result in 0.0068 mg/kg BW-d) based on the range of the data.

### 4.1.2 Avian Egg-Based Mercury CTCs

To identify avian egg-based CTCs, sources discussed in Environmental Contaminants in Wildlife: Interpreting Tissue Concentrations (Thompson 1996) as well as Burger and Gochfeld (1997) were considered. Twenty-five studies summarizing effects of mercury on avian eggs were identified for consideration as listed in Table D-18. Several of the studies determined egg mercury concentrations in wild bird populations; therefore, dosing and mercury exposure information were limited. NOAEL values for mercury in bird eggs range from 0.07 micrograms per gram (µg/g) ww (Fyfe et al. 1976) to 16 µg/g ww (Vermeer et al. 1973). LOAELs range from 0.042 µg/g ww (Fyfe et al. 1976) to 40 µg/g ww (Scott et al. 1975). The lowest LOAEL from Newton et al. (1989), which is based on reductions in brood size, is not considered applicable. The study by Newton et al. (1989) measured contaminants in deserted peregrine falcon eggs obtained in Britain and the impacts of the chemicals on breeding success. The relationship between mercury and reduction in brood size in this publication is not significant, and the observed changes in reproductive success are more clearly attributed to other contaminants.

The next lowest LOAEL value of 0.2 µg/g ww in egg is taken from the Jackson et al. (2011) study. Jackson et al. (2011) monitored reproductive success of Carolina wrens (*Thryothorus ludovicianus*) breeding along forest-floodplains of two mercury-contaminated rivers in Virginia compared to reference sites with levels of mercury exposure consistent with background atmospheric deposition. Nest survival was modeled based on individual female blood mercury concentrations. Based on the model results, egg mercury concentrations of 0.11 mg/kg ww would result in a 10% reduction in nest success, and a concentration of 0.20 mg/kg ww would result in a 20% reduction in nest success. Uncertainties associated with this study are primarily related to the low sample size for measured egg concentrations (n=7) that was used to derive the equation for modeling the effect levels. In addition, the primary endpoint evaluated in the study is nest success rather than fledglings produced. Specifically, some of the nests that were considered failed may have produced fledglings; thereby, not affecting overall reproductive output. Because this study was conducted with one of the specific test species being evaluated in the OU-4 BERA and measured effects may have biological relevance, the modeled 10 and 20% effect levels of 0.11 and 0.2 mg/kg ww, respectively, are the NOAEL and LOAEL egg-based CTCs for mercury. These values were converted to dry weight assuming a 75% moisture content in bird egg tissue (Ahn et al. 1997) resulting in a NOAEL and LOAEL egg-based CTCs for mercury of 0.44 and 0.80 mg/kg dw (Table D-2).

[4] Dose calculated from the LOAEL of 0.5 mg/kg ww in diet using an estimated food ingestion rate from the low dose group of 17% body weight (range in study was 6 to 27%).

## 4.2 Mammalian Dietary TRVs for Mercury

As for avian species, the Great Lakes Water Quality Initiative Criteria Documents for the Protection of Wildlife (USEPA 1995) provides the basis for the selection of mammalian dietary TRVs. Values developed for use in the USEPA (1995) criteria document were reviewed along with peer-reviewed studies that have been conducted and published since the development of the criteria document values. One of the studies, Verschurren et al. (1976), exposed rats to dietary methylmercury chloride at concentrations of 1.0, 0.5, and 2.5 mg/kg for three generations. Pup viability was significantly reduced in the group exposed to 2.5 mg/kg. Using an ingestion rate of 0.028 kg/day and body weight of 0.35 kg (USEPA 1988), the LOAEL of 0.16 mg/kg BW-d and NOAEL of 0.032 mg/kg BW-d were calculated. The study by Dansereau et al. (1999) is a two generation study in which mink were fed a range of doses of total mercury in their contaminated fish-based diet, and of the studies considered, included the lowest LOAEL. Mortalities occurred in 11-month old G1 and G2 females fed the 1.0 mg/kg mercury diet after 90 days and 330 days of exposure, respectively. No mortality was observed in the 0.5 mg/kg exposure group. Converting this dietary concentration using an ingestion rate of 0.15 kg/day and a body weight of 1 kg (USEPA 1995), the LOAEL dose is 0.15 mg/kg BW-d. This study also provided a corresponding NOAEL of 0.075 mg/kg BW-d. For mammalian species, the mink appears to be more sensitive to mercury (California Environmental Protection Agency [CalEPA] 2000); therefore, results from the study by Dansereau et al. (1999) are selected as the mammalian dietary TRVs for the OU-4 BERA (Table D-2). The conservative nature of toxicity values derived from studies based on exposure to methylmercury and that actual exposure at the site would not likely be comprised of 100% methylmercury are discussed in the Uncertainty Analysis (Section 6.2) of the OU-4 BERA.

## 4.3 Fish Tissue CTCs for Mercury

Established tissue-based CTCs protective of fish are not currently available; however, tissue residue-based effects data exist and are used to support the development of tissue-based CTCs protective of fish for mercury. The approach used to develop the tissue-based fish CTCs for mercury included the same data accumulation and reduction steps as outlined in Section 3.3 for PCBs. Data considered in development of mercury fish-tissue CTCs are summarized in Table D-19.

The ERED data query and subsequent data review and reduction resulted in identification of six potentially relevant studies reflecting whole body tissue no-effect and effect data for fish species for mercury. The primary literature for each study identified as potentially relevant was obtained, and individual studies were reviewed. One of these studies (Beckvar et al. 2005) is a review study, which provides a review of tissue residue studies for mercury and considers all of the other studies obtained from ERED, and was identified as potentially relevant for CTC derivation. Beckvar et al. (2005) apply and evaluate different systematic methods for linking tissue concentrations of mercury with observed adverse biological effects, including identification of the highest no-effect tissue concentration (0.23 mg/kg ww) that is below the lowest effect tissue concentration (0.25 mg/kg ww). As Beckvar et al. (2005) focus on data for sub-lethal endpoints (including growth, reproduction, and development), these values are considered to be conservative, protective, and appropriate for application in a risk assessment context.

Considering the studies identified as potentially relevant in ERED (reflecting sub-lethal endpoints associated with whole body concentrations in freshwater fish), no-effect tissue concentrations range from below the NOAEL CTC of 0.23 mg/kg ww (Webber and Haines 2003) to greater than 10 mg/kg for sub-

lethal endpoints (Olson et al. 1975), and low-effect concentrations range from the LOAEL CTC of 0.25 mg/kg ww (Friedmann et al. 1996) to 29 mg/kg ww (Dillon 1984). Note that the Friedmann et al. (1996) reproductive effect level selected by Beckvar et al. (2005) was a small (approximately 15%) decrease in gonadosomatic index, which is not clearly tied to reproductive success. This variability suggests that uncertainty exists regarding the true tissue threshold for effects associated with mercury, and that many factors (including site-specific factors that influence bioavailability and exposure) influence mercury uptake and toxicity.

To summarize, for mercury, the NOAEL fish tissue CTC of 0.23 mg/kg ww and a LOAEL fish tissue CTC of 0.25 mg/kg ww was selected for use in the OU-4 BERA to evaluate potential risk to fish communities. These values were converted to dry weight assuming a 73% moisture content in tissue (based on average moisture content of fish from OU-4) resulting in a NOAEL and LOAEL fish-based CTCs of 0.85 and 0.93 mg/kg dw, respectively (Table D-2).

## 4.4 Invertebrate Tissue CTCs for Mercury

For invertebrates, limited tissue residue-based effects data exist for mercury. These data were used to develop tissue CTCs for invertebrates at the request of USEPA. The approach used to develop the tissue-based fish CTCs for mercury included the same data accumulation and reduction steps as outlined in Section 3.4 for PCBs. Invertebrate-tissue CTCs are summarized in Table D-2. Invertebrate tissue residue data are discussed for the individual tissue types in more detail below.

### 4.4.1 Oligochaete (Aquatic Worms)

No relevant tissue effects data were located, and therefore no tissue CTC was developed for aquatic worms.

### 4.4.2 Aquatic Emergent Insects

Only two studies that contain relevant tissue residue data for emergent insects were identified. The studies contain unbounded no-effects data for two species: burrowing mayfly and midge (Table D-20). The highest NOAEL is from a study by Rossaro et al. (1986) in which midge larve (*Chironomus riparius*) were exposed to mercuric chloride in flow-through chambers for 30 days. Aqueous concentrations in the test chambers ranged from 2 to 9 µg/L. The authors note that there was no effect on mortality at tissue concentrations reaching 107 mg/kg ww at the end of the test. The only other available data (Saouter et al. 1993) were for burrowing mayfly exposed over nine days to organic and inorganic mercury via water or sediment exposures. The highest tissue residues were found for methylmercury uptake from the dissolved phase, with no effect on growth or survival at a residue concentration of 7.5 mg/kg ww. Although the short exposure duration in the Saouter et al. (1993) study is not considered to be as relevant as the chronic exposure conducted by Rossaro et al. (1986), midge can be relatively tolerant to pollution, and therefore the mayfly data were selected as the basis for the NOAEL CTC. The NOAEL value of 7.5 mg/kg ww from Saouter et al. (1993) was selected as the NOAEL-equivalent CTC for evaluation of emergent insect data collected in OU-4. No LOAEL-equivalent value was selected.

The NOAEL CTC was converted to a dry-weight concentration of 24 mg/kg dw, assuming 31% solids based on the average site-wide emergent insect solids content for OU-4.

### 4.4.3 Aquatic Odonate Larvae / Epibenthic Invertebrates

No odonate-specific tissue toxicity data were located, therefore other epibenthic arthropod species were considered suitable as surrogate receptors. One study conducted with the amphipod *Hyalella azteca* was identified with relevant tissue toxicity data (Table D-21). Borgmann et al. (1993) exposed juvenile amphipods to mercury for 10 weeks in static aqueous exposures with weekly water renewal. At the LOAEL tissue concentration of 90 mg/kg dw, survival was 28% relative to controls and reproduction; measured by number of young per initial number of adults was 38% of control levels. At mercury concentrations of 56 mg/kg dw, no effect on survival or reproduction was observed. The paired NOAEL and LOAEL values of 56 and 90 mg/kg dw, respectively, were selected to evaluate mercury in odonate tissues in OU-4.

These NOAEL and LOAEL values equate to wet weight concentrations of 10.1 and 16.2 mg/kg ww, based on the average site-wide odonate solids content of 18%.

### 4.4.4 Aquatic Molluscs

Five studies that contain relevant tissue residue data for molluscs were identified. The studies contain data for seven species, including snails, clams, limpets, and oysters (Table D-22). The lowest LOAEL is from Dillon et al. (1977) in which clams (*Rangia cuneata*) were exposed to 1 mg/L mercuric chloride in solution. Two tests were conducted using unexposed clams and clams that had been pre-exposed to 10 µg/L mercury for 2 weeks. After 6.5 days exposure to 1 mg/L, tissue concentrations of 10 mg/kg ww in the pre-exposed group were associated with 25% mortality, which is assumed to be a LOAEL-equivalent concentration[5]. After 10 days exposure, the same clams had accumulated 22 mg/kg ww, which resulted in 52% mortality. Tissue concentrations of 6 mg/kg ww were associated with 14% mortality, which is assumed to be equivalent to a NOAEL for this species. Although the unexposed group accumulated more mercury and had slightly higher mortality, the pre-exposed group more accurately represents molluscs in OU-4 that have chronic exposures to site media. Thain (1984) reported a similar LOAEL of 12 mg/kg ww, based on 25% reduced fecundity in slipper limpet (*Crepidula fornicata*) after eight weeks of exposure to mercury, and a 25 to 50% reduction in shell growth over 16 weeks at tissue concentrations of 28 mg/kg ww. Because the Thain et al. (1984) study was a chronic exposure duration, and because there is uncertainty in the Dillon et al. (1977) data due to lack of statistical testing and the effects of pre-exposure to metals, the Thain et al. (1984) LOAEL of 12 mg/kg ww for reduced fecundity in limpet was selected as the basis for the LOAEL CTC for evaluation of mercury in mollusc tissue from OU-4. The highest NOAEL (6.0 mg/kg ww) below the selected LOAEL was from Dillon et al. (1977) for reduced survival for acute exposure durations. The NOAEL effects concentration was multiplied by an acute-to-chronic uncertainty factor of 0.1, resulting NOAEL and LOAEL tissue CTCs of 0.60 and 12 mg/kg ww, respectively.

These NOAEL and LOAEL CTCs were converted to 8.0 and 150 mg/kg dw, based on 8% average solids content in site-wide clams.

[5] Statistical testing was not conducted by Dillon et al. (1977) to determine a LOAEL. An effects level of 20% was assumed to be a LOAEL-equivalent concentration.

### 4.4.5 Crayfish

Four studies were identified that contain relevant data for development of mercury tissue CTCs for crayfish. These studies include data for one species of shrimp, fiddler crab (*Uca pugilator*), and a cladoceran (Table D-23). Biesinger et al. (1982) is the only study reporting adverse effect endpoints. In that study juvenile *Daphnia magna* were exposed to a range of mercuric chloride or methylmercury concentrations in 3-week flow-through exposures. Although there was no effect on survival, a 33 to 35% decrease in production of young was observed at 16 mg/kg dw (1.6 mg/kg ww) for methylmercury and 23 mg/kg dw (2.3 mg/kg ww) for mercury as mercuric chloride. The NOAEL tissue residue concentrations associated with no effect on young production are 15 mg/kg dw (1.5 mg/kg ww) for mercuric chloride exposures and 0.92 mg/kg dw (0.092 mg/kg ww; the control mercury tissue residue concentration) for methylmercury exposures. Although *Daphnia magna* are not closely related to crayfish, these toxicity data were considered suitable due to the lack of alternate effects and no-effects levels from chronic studies. The NOAEL and LOAEL of 0.92 mg/kg dw and 16 mg/kg dw resulting from exposure to methylmercury were selected to evaluate OU-4 crayfish tissue data.

### 4.4.6 Terrestrial Earthworms

Only a single study by Burton et al. (2006) was identified containing relevant mercury tissue residue data for earthworms (*Eisenia fetida*) (Table D-24). Burton et al. (2006) exposed adult earthworms for 28 days in soil historically contaminated with mercury and methylmercury. Total mercury concentrations in the soil ranged from 0.085 to 11.5 mg/kg and methylmercury concentrations ranged from 1.12 to 7.35 micrograms per kilogram dry soil. The highest soil mercury concentrations resulted in tissue burdens of 15 mg total mercury/kg dw and 0.78 mg methylmercury/kg dw. No effects were observed on survival (>95% in all treatments) or growth as measured by growth rate (ranged from 5.1 to 6.1 mg/week). The highest NOAEL of 15 mg/kg dw, based on total mercury, was selected as the mercury CTC to evaluate earthworms in OU-4. The methylmercury values were not considered relevant because mercury in earthworms is present almost entirely as inorganic mercury (Newman et al. 2011, Rieder et al. 2011). A LOAEL-equivalent value is not available.

The NOAEL CTC is equivalent to a wet weight concentration of 4.4 mg/kg ww, based on 29% site-wide average solids content in earthworms.

### 4.4.7 Terrestrial Crickets/Grasshoppers

No relevant tissue effects data were located, and therefore no tissue CTCs were developed for grasshoppers and crickets.

# 5 NON MERCURY METAL TRVS AND CTCS

This section describes the selection and development of dietary TRVs and tissue-based CTCs for barium, chromium, cobalt, lead, and vanadium, as available. The TRVs and CTCs are presented in Table D-2.

## 5.1 Avian and Mammalian TRVs for Non Mercury Metals

As described in Section 1, the USEPA EcoSSL guidance was the primary source used to obtain TRVs for these metals (with the exception of the barium avian TRVs). The avian and mammalian NOAEL and LOAEL TRVs for non-mercury metals selected for OU-4 BERA are presented in Table D-2. Because the USEPA EcoSSL guidance (2005 and 2007) provides only NOAEL-based TRVs, in cases where the EcoSSL was the basis for a TRV, it was necessary to develop a LOAEL from the underlying data. LOAEL-based TRVs were developed as follow:

- When a bounded NOAEL-based TRV was recommended (i.e., the same study included a LOAEL for that endpoint) the LOAEL from that study was selected. For mammals, this was the case for lead; for birds, lead and vanadium.
- When the recommended NOAEL-based TRV was unbounded, the lowest reproduction, growth, and survival LOAEL greater than the NOAEL-based TRV was selected. For mammals, this was the case for vanadium.
- When the recommended NOAEL-based TRV was a geometric mean of the reproduction and growth NOAELs, the lowest reproduction, growth, and survival LOAEL greater than the NOAEL-based TRV was selected. For mammals, this was the case for barium, chromium, and cobalt; for birds, this was the case for chromium and cobalt.

## 5.2 Fish Tissue CTCs for Non Mercury Metals

For protection of fish, fish-tissue CTCs for non-mercury metals were selected based on literature studies as summarized below and presented in Table D-2.

- Barium - No chronic studies conducted with freshwater fish species reporting tissue-burdens and associated effects were found for barium. One study is available for Atlantic salmon (*Salmo salar*), but because this species has questionable relevance to OU-4 and only one study is available, the data are not considered sufficient for CTC development.
- Chromium – No chronic studies conducted with freshwater fish species reporting tissue-burdens and associated effects were found for chromium. One study is available for Chinook salmon (*Oncorhynchus tshawytscha*), but because this species has questionable relevance to OU-4 and no other studies are available, the data are not considered sufficient for CTC development.
- Cobalt – No studies with freshwater fish species reporting tissue-burdens and associated effects were found for cobalt.
- Lead - The ERED data query, and subsequent data review and reduction, resulted in identification of one potentially relevant study reflecting whole body tissue no effect and effect data for freshwater fish species for lead. Holcombe et al. (1976) presents the results of a three-generation study of brook trout

(*Salvelinus fontinalis*) exposed to lead in water. Both lethal and sub-lethal effects were evaluated in this study, and no effect and effect levels are reported as whole body tissue concentrations. Holcombe et al. (1976) proposed, based on observing the development of scoliosis in second- and third-generation fish and reduced growth of 12-week old third-generation fish, that the maximum allowable threshold concentration (assuming a water exposure) lies between 58 and 119 µg/L (i.e., between the no effect and effect level). These water exposure levels are associated with whole body tissue thresholds of 2.5 and 4 mg/kg ww as reported in ERED, which were selected as the NOAEL- and LOAEL-fish tissue CTCs for lead, respectively. These values were converted to dry weight assuming a 73% moisture content in fish tissue (based on average moisture content of fish from OU-4) resulting in NOAEL and LOAEL fish tissue CTCs for lead of 9.3 and 15 mg/kg dw.

- Vanadium - Three studies were identified for vanadium that evaluate targeted endpoints (i.e., reproduction, survival, development, and growth) in freshwater fish; however, only two of these studies provides tissue-based thresholds measured as whole body tissue concentrations. Holdway et al. (1983) evaluates American flagfish (*Jordanella floridae*) exposed in two generations to vanadium in water for sub-lethal endpoints including growth and reproduction. Only the lowest exposure concentration (0.0041 mg/L) did not result in growth and reproduction effects. This water exposure level resulted (after 96 days of exposure over two generations) in an average whole body tissue burden of 2.85 mg/kg dw. This no effect concentration is reflected in ERED as a whole body growth no observed effect dose of 0.68 mg/kg based on the application of a 0.24 dw-ww ratio provided in Holdway et al. (1983). The associated growth LOAEL provided in ERED (2.7 mg/kg ww) reflects the next highest water exposure concentration (0.17 mg/L) which resulted in a dry weight tissue burden of 11.1 mg/kg (the same dw-ww ratio of 0.24 was applied to yield the reported LOAEL of 2.7 mg/kg dw). The highest exposure concentration tested in this study (1.5 mg/L) was observed to be approximately 1/8th of the acutely lethal exposure concentration (indicating the protectiveness of the sub-lethal endpoints which provide the basis for the no effect and low effect tissue-based CTC for vanadium). A study by Hilton and Bettger (1988) recorded growth in rainbow trout (*Oncorhynchus mykiss*) fed 12 weeks on diets supplemented with vanadium as sodium orthovanadate at concentrations of 1.2, 10.2, and 80 mg/kg. Body weight gain was reduced in trout fed the lowest concentration diet of 10.2 mg/kg, but not in trout fed the control diet of 1.2 mg/kg. The reported no observed effect concentration of 0.09 mg/kg dw was selected as the NOAEL fish CTC and the reported LOEC based on reduced growth of 2.1 mg/kg dw was selected as the LOAEL fish CTC.

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# TABLES

**Table D-1. Summary of Toxicity Benchmarks and TRVs Developed or Selected for OU-4**
**Anniston PCB Site, Anniston, Alabama**

| Media | Relevant Receptor | PCB Value Developed or Selected | Mercury Value Developed or Selected | Barium Value Developed or Selected | Chromium Value Developed or Selected | Cobalt Value Developed or Selected | Lead Value Developed or Selected | Vanadium Value Developed or Selected |
|---|---|---|---|---|---|---|---|---|
| **Media-Based Benchmarks** | | | | | | | | |
| Soil | Terrestrial plants | yes | yes | not a soil COPC | yes | not a soil COPC | yes | yes |
| | Terrestrial invertebrates | yes | yes | not a soil COPC | yes | not a soil COPC | yes | yes |
| | Reptiles and amphibians | NS | NS | not a soil COPC | NS | not a soil COPC | NS | NS |
| Sediment | Aquatic plants | NS | NS | NS | NS | NS | NS | NS |
| | Benthic invertebrates | yes | yes | yes | yes | yes | yes | yes |
| | Fish | NS | NS | NS | NS | NS | NS | NS |
| | Reptiles and amphibians | NS | NS | NS | NS | NS | NS | NS |
| Water | Aquatic plants | yes | yes | yes | yes | yes | yes | yes |
| | Aquatic invertebrates | yes | yes | yes | yes | yes | yes | yes |
| | Fish | yes | yes | yes | yes | yes | yes | yes |
| | Reptiles and amphibians | NS | NS | NS | NS | NS | NS | NS |
| **Tissue Based TRVs** | | | | | | | | |
| Aquatic Plant Tissue | Aquatic plants | NS | NS | NS | NS | NS | NS | NS |
| Terrestrial Plant Tissue | Terrestrial plants | NS | NS | NA | NS | NA | NS | NS |
| Benthic Invertebrate Tissue | Benthic invertebrates (representative receptors) | yes | yes | NS | NS | NS | NS | NS |
| Soil Invertebrate Tissue | Soil invertebrates (representative receptors) | yes | yes | NS | NS | NS | NS | NS |
| Fish Tissue (whole body) | Fish | yes | yes | no | no | no | yes | yes |
| Reptile/Amphibian Tissue | Reptiles and amphibians | NS | NS | NS | NS | NS | NS | NS |
| Bird Egg Tissue | Birds (representative receptors) | yes | yes | NS | NS | NS | NS | NS |
| Small Mammal Tissue (whole body) | Small mammals (representative receptors) | yes | NS | NS | NS | NS | NS | NS |
| **Dietary TRVs** | | | | | | | | |
| Birds | Birds (representative receptors) | yes | yes | yes | yes | yes | yes | yes |
| Mammals | Small mammals (representative receptors) | yes | yes | yes | yes | yes | yes | yes |

**Notes:**

COPC: constituent of potential concern

NA: not applicable

NS: value was not developed as the dataset was not sufficient

PCB: polychlorinated biphenyl

TRV: toxicity reference value

Yellow highlighting indicates changes/additions to the August 2015 Draft Baseline Ecological Risk Assessment for OU-4.

**Table D-2. Summary of Toxicity Benchmarks, TRVs, and CTCs for Ecological Receptors**
**Anniston PCB Site, Anniston, Alabama**

| Media | Receptor | PCBs | | | Mercury [b] | | | Barium | | | Chromium | | | Cobalt | | | Lead | | | Vanadium | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (low) | (high) | Reference | (low) | (high) | Reference | (low) | (high) | Reference | (low) | (high) | Reference | (low) | (high) | Reference | (low) | (high) | Reference | (low) | (high) | Reference |
| **Media-Based Toxicity Benchmarks** | | | | | | | | | | | | | | | | | | | | | | |
| Sediment (mg/kg dw) | | **TEC** | **PEC** | | **TEC** | **PEC** | | **TEC** | **PEC** | | **TEC** | **PEC** | | **TEC** | **PEC** | | **TEC** | **PEC** | | **TEC** | **PEC** | |
| | Benthic invertebrates* | 0.060 | 0.68 | MacDonald et al. (2000) | 0.18 | 1.1 | MacDonald et al. (2000) | NA | NA | -- | 43 | 111 | MacDonald et al. (2000) | NA | NA | -- | 36 | 128 | MacDonald et al. (2000) | NA | NA | -- |
| Soil (mg/kg dw) | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | |
| | Terrestrial plants | 40 | NA | Efroymson et al. (1997a) | 0.30 | NA | Efroymson et al. (1997a) | -- | -- | Not a soil COPC | 1.0 | NA | Efroymson et al. (1997a) | -- | -- | Not a soil COPC | 120 | NA | USEPA (2005c) | 2.0 | NA | Efroymson et al. (1997a) |
| | Terrestrial invertebrates | 3.6 | 36 | USEPA (2015) [i] | 0.10 | 0.23 | Efroymson et al. (1997b) / Son et al. 2007 | -- | -- | Not a soil COPC | 0.40 | NA | Efroymson et al. (1997b) | -- | -- | Not a soil COPC | 1700 | NA | USEPA (2005c) | NA | NA | -- |
| Water (µg/L) | | **Acute** | **Chronic** | | **Acute** | **Chronic** | | **Acute** | **Chronic** | | **Acute** | **Chronic** | | **Acute** | **Chronic** | | **Acute** | **Chronic** | | **Acute** | **Chronic** | |
| | Aquatic life (water column invertebrates, fish, and amphibians) | 0.60 | 0.014 | ADEM (2015)[a], USEPA (2016) | 2.4<br>1.4 | 0.012<br>0.77 | ADEM (2015) [g]<br>USEPA (2016) [h] | 110 | 4.0 | Suter and Tsao (1996) | 1005 | 131 | ADEM (2015)[c], USEPA (2016) | 1500 | 23 | Suter and Tsao (1996) | 136 | 5 | ADEM (2015)[c], USEPA (2016) | 280 | 20 | Suter and Tsao (1996) |
| | Aquatic plants | NA | 0.14 | Suter and Tsao (1996) | NA | 5.0 | Suter and Tsao (1996) | NA | NA | -- | NA | 400 | Suter and Tsao (1996) | NA | NA | -- | NA | 500 | Suter and Tsao (1996) | NA | NA | -- |
| | Aquatic invertebrates | NA | 1.2 | Suter and Tsao (1996) | NA | 0.87 | Suter and Tsao (1996) | NA | NA | -- | NA | NA | -- | NA | 4.4 | Suter and Tsao (1996) | NA | NA | -- | NA | 430 | Suter and Tsao (1996) |
| | Fish | NA | 0.40 | Suter and Tsao (1996) | NA | 0.87 | Suter and Tsao (1996) | NA | NA | -- | NA | 89 | Suter and Tsao (1996) | NA | 810 | Suter and Tsao (1996) | NA | 22 | Suter and Tsao (1996) | NA | 41 | Suter and Tsao (1996) |
| **Dietary Toxicity Reference Values** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | |
| Dietary TRV (mg/kg bw-d; dw) | Birds - high sensitivity | 0.043 | 0.13 | Lillie et al. (1974) | 0.023 | 0.068 | Spalding et al. (2000) | 21 | 42 | Sample et al. (1996) | 2.7 | 2.8 | USEPA (2008)[d] | 7.6 | 7.8 | USEPA (2005b)[d] | 1.6 | 3.3 | USEPA (2005c)[d] | 0.34 | 0.70 | USEPA (2005d)[d] |
| | Birds - mid-range sensitivity | 0.47 | 1.4 | Koval et al. (1987) | | | | | | | | | | | | | | | | | | |
| | Small mammals | 0.23 | 0.68 | McCoy et al. (1995) | | | | | | | | | | | | | | | | | | |
| | Mink | 0.050 | 0.10 | Restum et al. (1998) | 0.075 | 0.15 | Dansereau et al. (1999) | 52 | 121 | USEPA (2005a)[d] | 2.4 | 2.8 | USEPA (2008)[d] | 7.3 | 10 | USEPA (2005b)[d] | 4.7 | 8.9 | USEPA (2005c)[d] | 4.2 | 8.3 | USEPA (2005d)[d] |
| | Mink (alternate) | NA | 0.05 | Restum et al. (1998) [k] | | | | | | | | | | | | | | | | | | |
| **Tissue Critical Tissue Concentrations (dry weight basis) [f]** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | |
| Benthic Invertebrates | Oligochaetes | 541 | 659 | converted to dw assuming 17% solids (Landrum et al. 2004) | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| | Emergent Insects | 21 | NA | converted to dw assuming 31% solids (OU-4 data) | 24 | NA | converted to dw assuming 31% solids | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| | Odonata/Epibenthic | 158 | 422 | converted to dw assuming 18% solids (OU-4 data) | 56 | 90 | converted to ww assuming 18% solids (OU-4 data) | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| | Mollusks | 1263 | 1875 | converted to dw assuming 8% solids (OU-4 data) | 8 | 150 | converted to dw assuming 8% solids | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| | Crayfish | 21 | 57 | converted to dw assuming 28% solids (OU-4 data) | 0.92 | 16 | converted to ww assuming 10% solids (Biesinger et al. 1984) | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| Terrestrial Invertebrates | Earthworms | 78 | 83 | converted to ww assuming 22% solids (Rodriguez-Grau et al. 1989) | 15 | NA | converted to ww assuming 29% solids (OU-4 data) | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| | Grasshoppers/Crickets | 307 | 480 | converted to dw assuming 30% solids (Paine et al. 1993) | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| Amphibians and Reptiles | Frogs | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| | Snakes | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |

**Table D-2. Summary of Toxicity Benchmarks, TRVs, and CTCs for Ecological Receptors**
**Anniston PCB Site, Anniston, Alabama**

| Media | Receptor | PCBs | | | Mercury [b] | | | Barium | | | Chromium | | | Cobalt | | | Lead | | | Vanadium | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (low) | (high) | Reference | (low) | (high) | Reference | (low) | (high) | Reference | (low) | (high) | Reference | (low) | (high) | Reference | (low) | (high) | Reference | (low) | (high) | Reference |
| Bird Eggs (mg/kg dw) | Birds - high sensitivity | 2.1 | 4.5 | Britton and Houston (1973) | 0.44 | 0.80 | Jackson et al. (2011) | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| | Birds - mid-range sensitivity | 28 | 66 | NOAEL : McLane and Hughes (1980) LOAEL : Peakall and Peakall (1973), Peakall et al. (1972) | | | | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| Mammal Tissue (mg/kg dw) | Small mammals | 10 | 23 | McCoy et al. (1995)[e] | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| Fish Tissue (mg/kg dw) | Non-salmonid | 7.0 | 34 | Hansen et al. (1974) | 0.85 | 0.93 | Webber and Haines 2003/Friedmann et al. 1976 | NA | NA | -- | NA | NA | -- | NA | NA | -- | 9.3 | 15 | Holcombe et al. (1976) | 0.090 | 2.1 | Hilton and Bettger (1988) |
| **Tissue Critical Tissue Concentrations (wet weight basis) [f]** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | | **NOAEL** | **LOAEL** | |
| Benthic Invertebrates (mg/kg ww) | Oligochaetes | 92 | 112 | Fisher et al. 1999 | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| | Emergent Insects | 6.5 | NA | Sanders and Chandler 1972 | 7.5 | NA | Saouter et al. 1993 | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| | Odonata/Epibenthic | 28 | 76 | Borgmann et al. 1990; Nebeker and Puglisi 1974 | 10 | 16 | Borgmann et al. 1993 | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| | Mollusks | 101 | 150 | Lowe et al. 1972 | 0.60 | 12 | LOAEL: Thain 1984 NOAEL: Dillon et al. 1977; acute-to-chronic UF (0.1) | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| | Crayfish | 6.0 | 16 | Sanders and Chandler 1972; Duke et. al 1970 | 0.092 | 1.6 | Biesinger et al. 1982 | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| Terrestrial Invertebrates (mg/kg ww) | Earthworms | 17 | 18 | Rodriguez-Grau et al. 1989, acute-to-chronic UF (0.1) | 4.4 | NA | Burton et al. 2006 | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| | Grasshoppers/Crickets | 92 | 144 | Paine et al. 1993 | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| Amphibians and Reptiles (mg/kg ww) | Frogs | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| | Snakes | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| Bird Eggs (mg/kg ww) | Birds - high sensitivity | 0.52 | 1.1 | Britton and Houston (1973) | 0.11 | 0.20 | Jackson et al. (2011) | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| | Birds - mid-range sensitivity | 7.1 | 17 | NOAEL : McLane and Hughes (1980) LOAEL : Peakall and Peakall (1973), Peakall et al. (1972) | | | | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| Mammal Tissue (mg/kg ww) | Small mammals | 3.3 | 7.5 | McCoy et al. (1995)[e] | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- | NA | NA | -- |
| Fish Tissue (mg/kg ww) | Non-salmonid | 1.9 | 9.3 | Hansen et al. (1974) | 0.23 | 0.25 | Webber and Haines 2003/Friedmann et al. 1976 | NA | NA | -- | NA | NA | -- | NA | NA | -- | 2.5 | 4 | Holcombe et al. (1976) | 0.024 | 0.554 | Hilton and Bettger (1988) |

**Table D-2. Summary of Toxicity Benchmarks, TRVs, and CTCs for Ecological Receptors**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**

a. No ADEM low value available. Screening value from Tier II Secondary Acute Value (Suter and Tsao 1996) for Aroclor 1254.
b. Mercury values based on total, inorganic, or methylmercury depending on media.
c. Ambient water quality criteria were adjusted for hardness = 200 mg/L, which represents a mid-range of site hardness data.
d. LOAELs selected from USEPA EcoSSL datasets were selected as the lowest LOAEL in the dataset for reproduction, growth, or survival that was above the selected NOAEL. Values were used as presented in the EcoSSL dataset. Specific underlying studies were note reviewed. See Appendix D for details on development of specific TRVs.
e. Study results assumed to be in dw.
f. Tissue-based TRVs were available on wet weight basis, as reported in the studies, but converted to dw for the risk assessment using site-specific percent solids data where available, or using appropriate literature values (see text).
g. Value based on methylmercury but applies to total mercury
h. Value based on total mercury but also applies to methylmercury
i. Soil benchmark calculated using equilibrium partitioning approach from USEPA (2015) using a LOAEL water quality criteria based on freshwater aquatic invertebrate Final Chronic Value (0.54 ug/L), as calculated by Fuchsman et al. (2006). An uncertainty factor of 10 was applied to estimate the NOAEL-equivalent benchmark.
j. Based on reproductive endpoint
k. Based on kit growth endpoint
* Site-specific PCB toxicity values for benthic invertebrates are presented in Table 5-2a.

ADEM: Alabama Department of Environmental Management
COPC: constituent of potential concern
dw: dry weight
EcoSSL: ecological soil screening level
high: selected high toxicity benchmark
LOAEL: lowest-observed adverse effects level
low: selected low toxicity benchmark
mg/kg dw: milligrams per kilogram of dry weight
mg/L: milligrams per liter
mg/kg bw-d: milligrams per kilogram body weight per day
NA: value not available
NOAEL: no-observed adverse effects level
PCB: polychlorinated biphenyl
PEC: probable effects concentration
TEC: threshold effects concentration
TRV: toxicity reference value
UF: uncertainty factor
USEPA: United States Environmental Protection Agency
µg/L: micrograms per liter
--: not applicable

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**Table D-3. Summary of Chicken Avian Dietary PCB Toxicity Data Considered for Toxicity Reference Value Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Exposure | | | | | Study Results | | | | | Dose Conversion | | | Results | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Chemical Form (Aroclor) | Dose | Dose Units [a] | Exposure Duration | Duration Units | Effect Group | Endpoint | Study NOAEL | Study LOAEL | Study Units | Body Weight (kg) | Ingestion Rate (kg/day) | Ingestion Rate (kg/kg/day) | NOAEL (mg/kg BW-d) | LOAEL (mg/kg BW-d) |
| Briggs and Harris 1973 | 1242 | 20 and 50 | mg/kg in food | 6 | weeks | reproduction | egg hatchability | NA | 20 | mg/kg in food | 1.95 | 0.126 | 0.065 | NA | 1.3 |
| Britton and Huston 1973 | 1242 | 5, 10, 20, 40, 80 | mg/kg in food | 12 | weeks | reproduction | egg hatchability | 5 | 10 | mg/kg in food | 1.95 | 0.126 | 0.06 | 0.32 | 0.65 |
| Harris et al. 1976 | 1232 | 5, 10, 20 | mg/kg in food | 8 | weeks | reproduction | egg hatchability | NA | 10 | mg/kg in food | 1.95 | 0.126 | 0.06 | NA | 0.65 |
| Harris et al. 1976 | 1242 | 5, 10, 20 | mg/kg in food | 8 | weeks | reproduction | egg hatchability | NA | 10 | mg/kg in food | 1.95 | 0.126 | 0.06 | NA | 0.65 |
| Harris et al. 1976 | 1248 | 5, 10, 20 | mg/kg in food | 8 | weeks | reproduction | egg hatchability | NA | 10 | mg/kg in food | 1.95 | 0.126 | 0.06 | NA | 0.65 |
| Harris et al. 1976 | 1254 | 5, 10, 20 | mg/kg in food | 8 | weeks | reproduction | egg hatchability | 5 | NA | mg/kg in food | 1.95 | 0.126 | 0.06 | 0.32 | NA |
| Harris et al. 1976 | 1016 | 5, 10, 20 | mg/kg in food | 8 | weeks | reproduction | egg hatchability | 5 | NA | mg/kg in food | 1.95 | 0.126 | 0.06 | 0.32 | NA |
| Lillie et al. 1974 | 1242 | 2 and 20 | mg/kg in food | 63 | days | reproduction | egg hatchability | 2 | 20 | mg/kg in food | 1.95 | 0.126 | 0.06 | 0.13 | 1.3 |
| Lillie et al. 1974 | 1248 | 2 and 20 | mg/kg in food | 63 | days | growth | chick growth | NA | 2 | mg/kg in food | 1.95 | 0.126 | 0.06 | NA | 0.13 |
| Lillie et al. 1974 | 1254 | 2 and 20 | mg/kg in food | 63 | days | growth | chick growth | NA | 2 | mg/kg in food | 1.95 | 0.126 | 0.06 | NA | 0.13 |
| Lillie et al. 1974 | 1268 | 2 and 20 | mg/kg in food | 63 | days | reproduction | egg production | NA | 20 | mg/kg in food | 1.95 | 0.126 | 0.06 | NA | 1.3 |
| Lillie et al. 1974 | 1221 | 2 and 20 | mg/kg in food | 63 | days | growth | chick growth | 20 | NA | mg/kg in food | 1.95 | 0.126 | 0.06 | 1.3 | NA |
| Lillie et al. 1974 | 1232 | 2 and 20 | mg/kg in food | 63 | days | growth | chick growth | NA | 20 | mg/kg in food | 1.95 | 0.126 | 0.06 | NA | 1.3 |
| Lillie et al. 1975 | 1232 | 5, 10 and 20 | mg/kg in food | 16 | weeks | reproduction | egg hatchability | 5 | 10 | mg/kg in food | 1.95 | 0.126 | 0.06 | 0.32 | 0.65 |
| Lillie et al. 1975 | 1016 | 5, 10 and 20 | mg/kg in food | 16 | weeks | growth | chick growth | 20 | NA | mg/kg in food | 1.95 | 0.126 | 0.06 | 1.3 | NA |
| Lillie et al. 1975 | 1242 | 5, 10 and 20 | mg/kg in food | 16 | weeks | reproduction | egg hatchability | 5 | 10 | mg/kg in food | 1.95 | 0.126 | 0.06 | 0.32 | 0.65 |
| Lillie et al. 1975 | 1248 | 5, 10 and 20 | mg/kg in food | 16 | weeks | reproduction | egg hatchability | 5 | 10 | mg/kg in food | 1.95 | 0.126 | 0.06 | 0.32 | 0.65 |
| Lillie et al. 1975 | 1254 | 5, 10 and 20 | mg/kg in food | 16 | weeks | growth | chick growth | 20 | NA | mg/kg in food | 1.95 | 0.126 | 0.06 | 1.3 | NA |
| Platanow and Reinhart 1973 | 1254 | 5 and 50 | mg/kg in food | 39 | weeks | reproduction | egg production | NA | 5 | mg/kg in food | 1.95 | 0.126 | 0.06 | NA | 0.32 |
| Platanow and Reinhart 1973 | 1254 | 5 and 50 | mg/kg in food | 39 | weeks | reproduction | egg hatchability | NA | 5 | mg/kg in food | 1.95 | 0.126 | 0.06 | NA | 0.32 |
| Scott 1977 | 1248 | 0.5, 1, 10 and 20 | mg/kg in food | 8 | weeks | reproduction | egg production | NA | 20 | mg/kg in food | 1.95 | 0.126 | 0.06 | NA | 1.3 |
| Scott 1977 | 1248 | 0.5, 1, 10 and 20 | mg/kg in food | 8 | weeks | reproduction | egg hatchability | 1 | 10 | mg/kg in food | 1.95 | 0.126 | 0.06 | 0.065 | 0.65 |
| Tumasonis et al. 1973 | 1254 | 50 | mg/L in water | 20 | weeks | reproduction | egg hatchability | NA | 50 | mg/L in water | 1.95 | 0.126 | 0.06 | NA | 3.2 |

**Notes:**

Life stage for all test organisms (white leghorn chicken) is mature.

Dose conversion: Body weight for all test organisms was 1.95 kg, ingestion rates were 0.126 kg/day and 0.06 kg/kg BW-d.

Selected as the basis for the dietary TRVs.

[a] When wet or dry weight was not specified in study, diet doses were assumed to be wet weight.

kg: kilogram(s)
LOAEL: lowest-observed adverse effects level
mg/kg BW-d: milligrams per kilogram body weight per day
mg/kg: milligrams per kilogram
mg/kg BW-d: milligrams per kilogram of body weight per day
mg/L: milligrams per liter
NA: not available
NOAEL: no-observed adverse effects level
PCB: polychlorinated biphenyl
TRV: toxicity reference value

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**Table D-4. Summary of Non-Chicken Avian Dietary PCB Toxicity Data Considered for Toxicity Reference Value Development**
**Anniston PCB Site, Anniston, Alabama**

| Study Reference | Exposure | | | | | | | | | | | Effects | | | | | Dose Conversion | | | Results | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Chemical Form (Aroclor) | Test Organism | Dose | Dose Units[a] | Route of Exposure | Exposure Duration | Duration Units | Age | Age Units | Life Stage | Sex | Effect Group | Endpoint | Study NOAEL | Study LOAEL | Study Units | Body Weight (kg) | Ingestion Rate (kg/day) | Ingestion Rate (kg/kg/day) | NOAEL (mg/kg BW-d) | LOAEL (mg/kg BW-d) |
| Call and Harrell 1974 | 1242 | Japanese quail (*Coturnix japonica*) | 312.5/ 5000 | mg/kg diet | FD | 21 | days | 7 | week | JV | F | reproduction | egg production | -- | 313 | mg/kg diet | 0.15 | 0.065 | 0.43 | -- | 136 |
| | 1254 | | 78.1 / 1250 | mg/kg diet | FD | 21 | days | 7 | week | JV | F | reproduction | egg production | -- | 78 | mg/kg diet | 0.15 | 0.065 | 0.43 | -- | 34 |
| | 1260 | | 62.5 / 1000 | mg/kg diet | FD | 21 | days | 7 | week | JV | F | reproduction | egg production | -- | 63 | mg/kg diet | 0.15 | 0.065 | 0.43 | -- | 27 |
| Custer and Heinz 1980 | 1254 | mallard (*Anas platyrhynchos*) | 25 | mg/kg diet | FD | 1+ | month | 9 | month | MA | B | reproduction | reproductive success | 25 | -- | mg/kg diet | 1 | 0.10 | 0.10 | 2.5 | -- |
| | 1254 | | 25 | mg/kg diet | FD | 1+ | month | 9 | month | MA | B | reproduction | hatchling success | 25 | -- | mg/kg diet | 1 | 0.10 | 0.10 | 2.5 | -- |
| Dahlgren et al. 1972 | 1254 | ring-necked pheasant (*Phasianus colchicus*) | 12.5 and 50 | mg/week | GV | 16 | weeks | 1 | year | MA | F | growth | chick growth | 50 | -- | mg/week | 1.0 | NA | NA | 7.1 | -- |
| | 1254 | | 12.5 and 50 | mg/week | GV | 16 | weeks | 1 | year | MA | F | reproduction | egg production | 12.5 | 50 | mg/week | 1 | NA | NA | 1.8 | 7.1 |
| | 1254 | | 12.5 and 50 | mg/week | GV | 16 | weeks | 1 | year | MA | F | reproduction | egg fertility | 50 | -- | mg/week | 1 | NA | NA | 7.1 | -- |
| | 1254 | | 12.5 and 50 | mg/week | GV | 16 | weeks | 1 | year | MA | F | reproduction | chick survival | 12.5 | 50 | mg/week | 1 | NA | NA | 1.8 | 7.1 |
| | 1254 | | 12.5 and 50 | mg/week | GV | 16 | weeks | 1 | year | MA | F | reproduction | egg hatchability | -- | 12.5 | mg/week | 1 | NA | NA | -- | 1.8 |
| Dieter 1975 | 1254 | wild starlings (*Sturnus vulgaris*) | 1,5,25,100 | mg/kg diet | FD | 49 | days | NA | NA | NA | NA | Mortality | mortality | 5 | 25 | mg/kg diet | 0.085 | 0.044 | 0.52 | 2.6 | 13 |
| Fernie et al. 2001 | 1248/1254/1260 | American kestrel (*Falco sparverius*) | 7 | mg/kg BW-d | FD | 100 | days | NA | NA | MA | B | reproduction | egg production | -- | 7 | mg/kg BW-d | NA | NA | NA | -- | 7.0 |
| | 1248/1254/1260 | | 7 | mg/kg BW-d | FD | 100 | days | NA | NA | MA | B | reproduction | number of fledglings | -- | 7 | mg/kg BW-d | NA | NA | NA | -- | 7.0 |
| Haseltine and Prouty 1980 | 1242 | mallard (*Anas platyrhynchos*) | 150 | mg/kg diet | FD | 12 | weeks | NA | NA | MA | B | morphology | egg shell thickness | -- | 150 | mg/kg diet | 1.12 | 0.26 | 0.23 | -- | 35 |
| | 1242 | | 150 | mg/kg diet | FD | 12 | weeks | NA | NA | MA | B | morphology | gross abnormalities | 150 | -- | mg/kg diet | 1.12 | 0.26 | 0.23 | 35 | -- |
| | 1242 | | 150 | mg/kg diet | FD | 12 | weeks | NA | NA | MA | B | growth | adult female body weight | -- | 150 | mg/kg diet | 1.12 | 0.26 | 0.23 | -- | 35 |
| | 1242 | | 150 | mg/kg diet | FD | 12 | weeks | NA | NA | MA | B | growth | duckling growth | 150 | -- | mg/kg diet | 1.12 | 0.26 | 0.23 | 35 | -- |
| | 1242 | | 150 | mg/kg diet | FD | 12 | weeks | NA | NA | MA | B | reproduction | egg fertility | 150 | -- | mg/kg diet | 1.12 | 0.26 | 0.23 | 35 | -- |
| | 1242 | | 150 | mg/kg diet | FD | 12 | weeks | NA | NA | MA | B | reproduction | embryo mortality | 150 | -- | mg/kg diet | 1.12 | 0.26 | 0.23 | 35 | -- |
| | 1242 | | 150 | mg/kg diet | FD | 12 | weeks | NA | NA | MA | B | reproduction | duckling survival | 150 | -- | mg/kg diet | 1.12 | 0.26 | 0.23 | 35 | -- |
| Koval et al. 1987 | 1254 | mourning dove (*Zenaida macroura*) | 10 | mg/kg diet | FD | 28 | days | NA | NA | MA | B | reproduction | egg production | -- | 10 | mg/kg diet | 0.108 | 0.015 | 0.14 | -- | 1.4 |
| Lowe and Stendell 1991 | 1248 | American kestrel (*Falco sparverius*) | 3 | mg/kg diet | FD | 6 | months | NA | NA | MA | B | morphology | egg shell thickness | -- | 3 | mg/kg diet | 0.12 | 0.054 | 0.47 | -- | 1.4 |
| | 1248 | | 3 | mg/kg diet | FD | 6 | months | NA | NA | MA | B | growth | egg weight | 3 | -- | mg/kg diet | 0.12 | 0.054 | 0.47 | 1.4 | -- |
| | 1248 | | 3 | mg/kg diet | FD | 6 | months | NA | NA | MA | B | reproduction | egg production | 3 | -- | mg/kg diet | 0.12 | 0.054 | 0.47 | 1.4 | -- |
| McLane and Hughes 1980 | 1248 | screech owl (*Megascops asio*) | 3 | mg/kg diet | FD | 8 | weeks | NA | NA | MA | B | morphology | egg shell thickness | 3 | -- | mg/kg diet | 0.18 | 0.025 | 0.14 | 0.41 | -- |
| | 1248 | | 3 | mg/kg ww diet | FD | 8 | weeks | NA | NA | MA | B | reproduction | egg production | 3 | -- | mg/kg ww diet | 0.18 | 0.025 | 0.14 | 0.41 | -- |
| | 1248 | | 3 | mg/kg ww diet | FD | 8 | weeks | NA | NA | MA | B | reproduction | eggs hatched | 3 | -- | mg/kg ww diet | 0.18 | 0.025 | 0.14 | 0.41 | -- |
| | 1248 | | 3 | mg/kg ww diet | FD | 8 | weeks | NA | NA | MA | B | reproduction | young fledged | 3 | -- | mg/kg ww diet | 0.18 | 0.025 | 0.14 | 0.41 | -- |
| Peakall and Peakall 1973 | 1254 | ring dove (*Streptopelia capicola*) | 10 | mg/kg ww diet | FD | 270 | days | NA | NA | MA | B | reproduction | Egg production | 10 | -- | mg/kg ww diet | 0.15 | 0.065 | 0.43 | 4.3 | -- |
| | 1254 | | 10 | mg/kg ww diet | FD | 270 | days | NA | NA | MA | B | reproduction | eggs hatched | -- | 10 | mg/kg ww diet | 0.15 | 0.065 | 0.43 | -- | 4.3 |
| | 1254 | | 10 | mg/kg ww diet | FD | 270 | days | NA | NA | MA | B | reproduction | young fledged | -- | 10 | mg/kg ww diet | 0.15 | 0.065 | 0.43 | -- | 4.3 |
| Peakall et al. 1972 | 1254 | | 10 | mg/kg diet | FD | 270 | days | NA | NA | MA | B | reproduction | egg production | -- | 10 | mg/kg diet | 0.15 | 0.065 | 0.43 | -- | 4.3 |
| | 1254 | | 10 | mg/kg diet | FD | 270 | days | NA | NA | MA | B | reproduction | eggs hatched | -- | 10 | mg/kg diet | 0.15 | 0.065 | 0.43 | -- | 4.3 |
| | 1254 | | 10 | mg/kg diet | FD | 270 | days | NA | NA | MA | B | reproduction | young fledged | -- | 10 | mg/kg diet | 0.15 | 0.065 | 0.43 | -- | 4.3 |
| Risebrough and Anderson 1975 | 1254 | mallard (*Anas platyrhynchos*) | 40 | mg/kg dw diet | FD | 4 | months | 1 | year | MA | B | morphology | egg shell thickness | 40 | -- | mg/kg dw diet | 1.0 | 0.18 | 0.18 | 7.4 | -- |
| | 1254 | | 40 | mg/kg dw diet | FD | 4 | months | 1 | year | MA | B | reproduction | egg production | 40 | -- | mg/kg dw diet | 1.0 | 0.18 | 0.18 | 7.4 | -- |
| Scott et al. 1975 | 1248 | Japanese quail (*Coturnix japonica*) | 20 | mg/kg diet | FD | 10 | weeks | NA | NA | MA | F | morphology | egg breaking strength | 20 | -- | mg/kg diet | 0.15 | 0.065 | 0.43 | 8.7 | -- |
| | 1248 | | 20 | mg/kg diet | FD | 10 | weeks | NA | NA | MA | F | growth | egg weight | 20 | -- | mg/kg diet | 0.15 | 0.065 | 0.43 | 8.7 | -- |
| | 1248 | | 20 | mg/kg diet | FD | 10 | weeks | NA | NA | MA | F | reproduction | egg production | 20 | -- | mg/kg diet | 0.15 | 0.065 | 0.43 | 8.7 | -- |
| | 1248 | | 20 | mg/kg diet | FD | 10 | weeks | NA | NA | MA | F | reproduction | hatchability | 20 | -- | mg/kg diet | 0.15 | 0.065 | 0.43 | 8.7 | -- |

**Notes:**

[a] When wet or dry weight was not specified in study, diet doses were assumed to be wet weight.

Selected as the basis for the dietary TRVs

B: both sexes
dw: dry weight
F: females
FD: in food
GV: oral gavage
JV: juvenile
kg: kilogram(s)
kg/d: kilograms per day
kg/kg/day: kilograms per kilogram per day
LOAEL: lowest-observed adverse effects level
MA: mature
mg: milligrams
mg/kg: milligrams per kilogram
mg/kg BW-d: milligrams per kilogram of body weight per day
NA: not available
NOAEL: no-observed adverse effects level
OU: operable unit
PCB: polychlorinated biphenyl
ww: wet weight
--: not applicable

**Table D-4. Summary of Non-Chicken Avian Dietary PCB Toxicity Data Considered for Toxicity Reference Value Development**
**Anniston PCB Site, Anniston, Alabama**

**References:**


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**Table D-5. Summary of Avian Species with their Aryl Hydrocarbon Receptor Genetically Sequenced**
**Anniston PCB Site, Anniston, Alabama**

| AHR Type 1 (high sensitivity) | AHR Type 2 (moderate sensitivity) | AHR Type 3 (lowest sensitivity) |
|---|---|---|
| domestic chicken (*Gallus gallus domesticus*) | ruffed grouse (*Bonasa umbellus*) | great blue heron (*Ardea herodias*) |
| red jungle fowl (*Gallus gallus*) | wild turkey (*Meleagris gallopavo*) | Japanese quail (*Coturnix japonica*) |
| European starling (*Sturnus vulgaris*) | willow ptarmigan (*Lagopus lagopus*) | American kestrel (*Falco sparverius*) |
| ruby-throated hummingbird (*Archilochus colubris*) | American redstart (*Setophaga ruticilla*) | Arctic tern (Sterna paradisaea) |
| gray catbird (*Dumetella carolinensis*) | Baltimore oriole (*Icterus galbula*) | bald eagle (*Haliaeetus leucocephalus*) |
| | black-and-white warbler (*Mniotilta varia*) | barred owl (*Strix varia*) |
| | black-capped chickadee (*Poecile atricapilla*) | belted kingfisher (*Megaceryle alcyon*) |
| | brown-headed cowbird (*Molothrus ater*) | common flicker (*Colaptes auratus*) |
| | cedar waxwing (*Bombycilla cedrorum*) | common loon (*Gavia immer*) |
| | chipping sparrow (*Spizella passerina*) | common tern (*Sterna hirundo*) |
| | common grackle (*Quiscalus quiscula*) | Cooper's hawk (*Accipiter cooperii*) |
| | common yellowthroat (*Geothlypis trichas*) | double-crested cormorant (*Phalacrocorax auritus*) |
| | indigo bunting (*Passerina cyanea*) | downy woodpecker (*Picoides pubescens*) |
| | Northern cardinal (*Cardinalis cardinalis*) | Eastern kingbird (*Tyrannus tyrannus*) |
| | ovenbird (*Seiurus aurocapilla*) | great cormorant (*Phalacrocorax carbo*) |
| | red-winged blackbird (*Agelaius phoeniceus*) | great horned owl (*Bubo virginianus*) |
| | rose-breasted grosbeak (*Pheucticus ludovicianus*) | herring gull (*Larus argentatus*) |
| | swamp sparrow (*Melospiza georgiana*) | ivory gull (*Pagophila eburnea*) |
| | tufted titmouse (*Baeolophus bicolor*) | killdeer (*Charadrius vociferus*) |
| | white-throated sparrow (*Zonotrichia albicollis*) | osprey (*Pandion haliaetus*) |
| | rock ptarmigan (*Lagopus muta*) | red-tailed hawk (*Buteo jamaicensis*) |
| | American woodcock (*Scolopax minor*) | ring-billed gull (*Larus delawarensis*) |
| | spotted sandpiper (*Actitis macularius*) | sandhill crane (*Grus canadensis*) |
| | American crow (*Corvus brachyrhynchos*) | screech owl (*Megascops asio*) |
| | American goldfinch (*Carduelis tristis*) | thick-billed murre (*Uria lomvia*) |
| | American robin (*Turdus migratorius*) | turkey vulture (*Cathartes aura*) |
| | bank swallow (*Riparia riparia*) | brant (*Branta bernicla*) |
| | barn swallow (*Hirundo rustica*) | Canada goose (*Branta canadensis*) |
| | blue jay (*Cyanocitta cristata*) | common eider (*Somateria mollissima)* |
| | cliff swallow (*Petrochelidon pyrrhonota*) | greater scaup (*Aythya marila*) |
| | Eastern bluebird (*Sialia sialis*) | mallard (*Anas platyrhynchos*) |
| | hermit thrush (*Catharus guttatus*) | wood duck (*Aix sponsa*) |
| | house finch (*Carpodacus mexicanus*) | wood thrush (*Hylocichla mustelina*) |
| | house sparrow (*Passer domesticus*) | |
| | house wren (*Troglodytes aedon*) | |
| | red-eyed vireo (*Vireo olivaceus*) | |
| | tree swallow (*Tachycineta bicolor*) | |
| | veery (*Catharus fuscescens*) | |
| | white-breasted nuthatch (*Sitta carolinensis*) | |
| | black-footed albatross (*Phoebastria nigripes*) | |
| | brown thrasher (*Toxostoma rufum*) | |
| | emu (*Dromaius novaehollandiae*) | |
| | mourning dove (*Zenaida macroura*) | |
| | bobwhite quail (*Colinus virginianus*) | |
| | ring-necked pheasant (*Phasianus colchicus*) | |

**Notes:**
AHR: aryl hydrocarbon receptor

**Table D-6. Summary of Avian Egg PCB Toxicity Data Considered for Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Exposure | | | | | | | Effects | | | | | Results | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Chemical Form | Test Organism | Dose | Dose Units [a] | Route of Exposure | Exposure Duration | Duration Units | Effect Group | Endpoint | Study NOAEL | Study LOAEL | Study Units | NOAEL (mg/kg egg) | LOAEL (mg/kg egg) |
| **Chicken Data** | | | | | | | | | | | | | | |
| Britton and Huston 1973 [a] | Aroclor 1242 | W.L. chicken (*Gallus gallus domesticus*) | 5,10,80 | mg/kg | diet | 6 | weeks | reproduction | hatchability at 6 weeks | 1.7 | 3.7 | ppm - egg yolk | 0.52 | 1.1 |
| Gould et al. 1997 [a] | Aroclor 1254 | | 0,1,10,100 | ng/egg | yolk injection | 17 | days | reproduction | decreases in body weight and femur length | 0.67 | 6.7 | mg/g - egg yolk | 0.2 | 2.1 |
| Platanow and Reinhart 1973 [b] | Aroclor 1254 | | 0,5,50 | mg/kg diet | diet | 39 | weeks | reproduction | decreased hatchability of fertile eggs | <5 | >15 | mg/kg - egg | 4 | 16 |
| Scott et al. 1975; Scott 1977 | Aroclor 1248 | | 0.5,1,10,20 | mg/kg diet | diet | 8 | weeks | reproduction | hatchability significantly reduced at 4 and 8 weeks; egg production significantly reduced at 8 weeks | 0.45 | 2.2 | mg/kg - egg | 0.45 | 2.2 |
| Tumasonis et al. 1973 [b] | Aroclor 1254 | | 50 | mg/kg | water | 6 | weeks | reproduction | hatchability of fertile eggs | <10-15 | >10 - 15 | mg/kg - egg yolk | 2.8 | 4.6 |
| **Non-Chicken Data** | | | | | | | | | | | | | | |
| Peakall et al. 1972 | Aroclor 1254 | ring dove (*Streptopelia capicola*) | 10 | mg/kg diet | diet | 90 | days | reproduction | eggs laid, young hatched, young fledged in F1 and F2; increased embryo mortality in F2 not caused by increased levels of PCBs. | NA | 16.5 | ppm - whole egg (ww) | NA | 17 |
| Custer and Heinz 1980 | Aroclor 1254 | mallard (*Anas platyrhynchos*) | 25 | mg/kg diet | diet | 30 | days | reproduction | reproductive and hatchling success or nest attentiveness | 23 | NA | ppm - whole egg (ww) | 23 | NA |
| Fernie et al. 2001 | 1:1:1 of Aroclors 1248:1254:1260 | American kestrel (*Falco sparverius*) | 7 | mg/kg bw/day | diet | 1 | year | reproduction | significantly smaller clutches, decreased egg fertility | NA | 34 | mg/g - whole egg (ww) | NA | 34 |
| Haseltine and Prouty 1980 | Aroclor 1242 | mallard (*Anas platyrhynchos*) | 150 | mg/kg diet | diet | 84 | days | reproduction | no significant effects on time to lay clutch, fertility, embryo mortality, or hatching success at this treatment level;12% reduction in body weight of adult females (at 12 weeks) and an 8.9% decrease in eggshell thickness | 105 | 105 | ppm - whole egg | 105 | 105 |
| McLane and Hughes 1980 | Aroclor 1242 | screech owl (*Megascops asio*) | 3 | mg/kg | diet | 279 | days | reproduction | number of eggs laid, young hatched, and fledged young | 7.1 | NA | ppm - whole egg (ww) | 7.1 | NA |
| Hoogesteijn et al. 2005 | Aroclor 1248 | zebra finch (*Taeniopygia guttata*) | 40 | ug/bird over 16 d | gavage | 16 | days | reproduction | asynchronous breeding, extended breeding cycle, increased chick mortality | NA | 0.197 | ppm - whole egg (ww) | NA | 0.20 |

**Notes:**
a. Study reported exposure as yolk concentrations - converted to whole egg basis using average reported egg weight and % yolk values (see table below).
b. A dietary exposure with resulting egg concentrations, egg concentrations were plotted and an effective concentration reported as a range.
Selected as the basis for the egg TRVs

**Table D-6. Summary of Avian Egg PCB Toxicity Data Considered for Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| W.L. Chicken Egg Weight (g) | Study |
|---|---|
| 53.8 | Control eggs (Tumasonis et al. 1973) |
| 52.9 | Eggs from hens exposed to 50 ppm Aroclor in water, or 5.3 mg/kg/day (Tumasonis et al. 1973) |
| 53.4 | Control eggs (Britton and Huston 1973) |
| 54.82 | Average weight of eggs from hens exposed to 5 to 10 ppm Aroclor (no exposure was significantly different from control |
| 58.7 | Average weight of 204 W.L. chicken eggs prior to dosing (Henshel et al. 1997) |
| 51 | Lowest weight of 204 W.L. chicken eggs (Henshel et al. 1997) |
| 66.6 | Highest weight of 204 W.L. chicken eggs (Henshel et al. 1997) |
| 65 | Average weight of 19 W.L. chicken eggs from hens fed a basal diet (Scott et al. 1975) |
| **57.0** | **Average Egg Weight (g) from Above Studies** |
| **Yolk (% of egg weight)** | |
| 31 | http://urbanext.illinois.edu/eggs/res16-egg.html |
| 29.5 | Demeke (http://www.lrrd.org/lrrd16/2/deme1602.htm) |
| 31.2 | Average yolk % of egg weight from 19 W.L. chicken eggs from hens fed a basal diet (Scott et al. 1975) |
| **30.6** | **Average % Yolk from Above Studies** |
| **17.4** | **Average Yolk Weight (g) from Above Studies** |

g: gram(s)
LOAEL: lowest-observed adverse effect level
mg/kg: milligrams per kilogram
mg/kg bw/day: milligrams per kilogram of per day
mg/kg/day: milligrams per kilogram per day
N/A: not available
ng: nanograms
NOAEL: no-observed adverse effects level
PCB: polychlorinated biphenyl
ppm: parts per million (mg/kg)
W.L: white leghorn (chicken)
ww: wet weight
>: greater than
<: less than
%: percent

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**Table D-7. Summary of Non-Mink Dietary PCB Toxicity Data Considered for Toxicity Reference Value Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Exposure | | | | | | | | | | | Effects | | | | | Dose Conversion | | | Results | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Chemical Form (Aroclor) | Test Organism | Dose | Dose Units | Route of Exposure | Exposure Duration | Duration Units | Age | Age units | Life stage | Sex | Effect Group | Endpoint | Study NOAEL | Study LOAEL | Study Units | Body Weight (kg) | Ingestion Rate (kg/day) | Ingestion Rate (kg/kg/day) | NOAEL (mg/kg BW-d) | LOAEL (mg/kg BW-d) |
| Baker et al. 1977 | 1254 | mouse | 6.4 | mg/kg BW | W | 9 | weeks | NR | NR | adult | M&F | growth | body weight | 6.4 | NA | mg/kg BW | NR | NR | 0.135 | 6.4 | NA |
| | 1254 | mouse | 6.4 | mg/kg BW | W | 9 | weeks | NR | NR | adult | M&F | biochemistry | Cyp 450 and Aniline hydroxylase | NA | 6.4 | mg/kg BW | NR | NR | 0.135 | NA | 6.4 |
| Bleavins et al. 1980 | 1242 | ferret | 5,10,20,40 | mg/kg diet | D | 247 | days | NR | NR | adult | M&F | reproduction | reproductive failure | NA | 20 | mg/kg food | 0.009 | NR | 0.13 | NA | 2.6 |
| Bruckner et al. 1973 | 1242 | rat | 100 | mg/kg BW | D-O | 1 | day | NR | NR | adult | male | growth | decreased body weight | NA | 100 | mg/kg BW | NR | NR | NR | NA | 100 |
| | 1242 | rat | 100 | mg/kg BW | D-O | 1 | day | NR | NR | adult | male | biochemistry | increased liver microsomal and P450 enzymes | NA | 100 | mg/kg BW | NR | NR | NR | NA | 100 |
| Linder et al. 1974 | 1254 | rat | 1,5,20,100 | mg/kg diet | D | 274 | days | 3-4 | weeks | adult | M&F | reproduction | fewer pups per litter | NA | 1.5 | mg/kg BW-d | 0.5 | NR | NR | NA | 1.5 |
| Linzey 1987 | 1254 | mouse | 10 | mg/kg diet | D | 16 | weeks | NR | NR | adult | M&F | mortality | survival to weaning; fewer pups per litter; body weight | NA | 10 | mg/kg diet | NR | NR | 0.142 | NA | 1.4 |
| McCoy et al. 1995 | 1254 | mouse | 5 | mg/kg diet | D | 12 | months | NR | NR | adult | M&F | reproduction | reduced number weaned per month | NA | 5 | mg/kg diet | NR | NR | 0.135 | NA | 0.68 |
| | 1254 | mouse | 5 | mg/kg diet | D | 12 | months | NR | NR | adult | M&F | growth | reduced birth and weaning weight | NA | 5 | mg/kg diet | NR | NR | 0.135 | NA | 0.68 |
| Merson and Kirkpatrick 1976 | 1254 | mouse | 200 | mg/kg diet | D | 60 | days | NR | NR | adult | M&F | reproduction | reduced number of litters | NA | 200 | mg/kg diet | NR | NR | 0.135 | NA | 27 |
| Neskovic et al. 1984 | 1242 | rat | NR | NR | O-G | 30 | days | NR | NR | NR | NR | growth | NR | NA | 75 | mg/kg BW-d | NR | NR | NR | 75 | NA |
| | 1242 | rat | NR | NR | O-G | 30 | days | NR | NR | NR | NR | biochemistry | SGOT and SGPT changes | NA | 75 | mg/kg BW-d | NR | NR | NR | NA | 75 |
| Spencer 1982 | 1254 | rat | 0,25,20,100 ,200,300,60 0,900 | mg/kg diet | D | 9 | days | NR | NR | adult | female | reproduction | reduced fetal survival rate per litter | 200 | 300 | mg/kg diet | 0.25 | 0.0177/0.158 | 0.0708/0.0632 | 14 | 19 |
| | 1254 | rat | 0,25,20,100 ,200,300,60 0,900 | mg/kg diet | D | 9 | days | NR | NR | adult | female | growth | decreased body weight | 50 | 100 | mg/kg diet | 0.25 | 0.018/0.0193 | 0.072/0.0772 | 3.6 | 7.7 |
| Villeneuve et al. 1971 | 1254 | rabbit | 0,1,10 | mg/kg BW-d | D-O | 28 | days | NR | NR | NR | NR | reproduction | progeny counts/number | NA | NA | NR | 2.5-3 | NR | NR | 10 | 13 |
| | 1254 | rat | 0,6.25,12.5, 25,50,100 | mg/kg BW-d | D-O | 9 | days | NR | NR | adult | female | reproduction | progeny counts/number | NA | 100 | mg/kg BW-d | 0.175-0.200 | NR | NR | 100 | NA |
| | 1254 | rat | 0,6.25,12.5, 25,50,100 | mg/kg BW-d | D-O | 9 | days | NR | NR | adult | female | growth | body weight | NA | 100 | mg/kg BW-d | 0.175-0.200 | NR | NR | NA | 100 |

**Notes:**

D: diet
D-O: dose oral
kg: kilogram(s)
kg/day: kilograms per day
kg/kg/day: kilograms per kilogram per day
LOAEL: lowest-observed adverse effect level
M&F: male and female
mg/kg BW: milligrams per kilogram of body weight
mg/kg BW-d: milligrams per kilogram of body weight
NA: not applicable
NOAEL: no-observed adverse effects level
NR: not reported
O-G: oral gavage
PCB: polychlorinated biphenyl
SGOT: serum glutamic oxaloacetic transaminase
SGPT: serum glutamic pyruvic transaminase
W: daily via water
Selected as the basis for the dietary TRVs

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**Table D-8. Summary of Mink Dietary PCB Literature Considered for Toxicity Reference Value Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Exposure | | | | | | | | Effects | | | | | Dose Conversion | | | Results | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Chemical Form | Dose | Dose Units | Route of Exposure | Exposure Duration | Duration Units | Lifestage | Sex | Effect Group | Endpoint | Study NOAEL | Study LOAEL | Study Units | Body Weight (kg) | Ingestion Rate (kg/day) | Ingestion Rate (kg/kg/day) | NOAEL (mg/kg bw/day) | LOAEL (mg/kg bw/day) |
| Aulerich et al. 1973[a] | PCBs | NR | NR | diet | NR | NR | adult | NR | reproduction | reproductive failure | ND | 5 | mg/kg diet | 1 | 0.15 | 0.15 | ND | 0.75 |
| Aulerich and Ringer 1977 | Aroclor 1254 | 1,5,15 /2 | mg/kg diet | diet | 130/298 | days | adult | female | reproduction | decreased number of kits per female | ND | 2 | mg/kg diet | 1 | 0.15 | 0.15 | ND | 0.30 |
| Aulerich and Ringer 1980 | Aroclor 1016 | 2,10,25 | mg/kg diet | diet | 349/539 | days | adult | female | reproduction | decreased kit growth at 4 weeks | 10 | 25 | mg/kg diet | 1 | 0.15 | 0.15 | 1.5 | 3.8 |
| Aulerich et al. 1985 | Aroclor 1254 | 2.5 | mg/kg diet | diet | 100 | days | adult | female | reproduction | reduced kit production and survival | ND | 2.5 | mg/kg diet | 1 | 0.15 | 0.15 | ND | 0.38 |
| Bleavins et al. 1980 | Aroclor 1242 | 5,10,20,40 | mg/kg diet | diet | 247 | days | adult | female | reproduction | fewer females whelped, reduced kit weights at 4 weeks | ND | 5 | mg/kg food | 0.8 | 0.15 | 0.19 | ND | 0.94 |
| Brunstrom et al. 2001 | Clophen A50 | 0.1 and 0.3 | mg/mink/d | diet | 18 | months | adult | female | development/ reproduction | reduced kit production and survival, reduced kit birth weight | ND | 0.1 | mg/day | 1.23 | NR | NR | ND | 0.081 |
| Bursian et al. 2013 | Weathered PCB Mixture | 0.72, 1.5, 2.8, 4.5, 6.1 | mg/kg diet | diet | 6 | months | adult | M&F | growth | 21% reduced kit weight at 6 weeks | 0.72 | 1.5 | mg/kg food | 1.10 | 0.15 | 0.14 | 0.10 | 0.20 |
| | Weathered PCB Mixture | 0.72, 1.5, 2.8, 4.5, 6.1 | mg/kg diet | diet | 6 | months | adult | M&F | development/ reproduction | reduced kit survival at 31 weeks (0%) | 0.72 | 1.5 | mg/kg food | 1.10 | 0.15 | 0.14 | 0.10 | 0.20 |
| Halbrook et al. 1999[a] | Weathered PCB Mixture | 0.52,1.01,1.36 | mg/kg diet | diet | 196 | days | adult | female | reproduction | decrease in 6 weeks old male kit weights | 0.11 | 0.23 | mg/kg bw/day | NR | NR | NR | 0.11 | 0.23 |
| Heaton et al. 1995[a] | Weathered PCB Mixture | 0.72,1.53,2.56 | mg/kg diet | diet | 182 | days | adult | female | physiology | decreased erythrocyte count | 0.004 | 0.13 | mg/kg bw/day | NR | NR | NR | ND | 0.13 |
| Hornshaw et al. 1983[a] | Weathered PCB Mixture | 0.6,1.5 | mg/kg diet | diet | NR | NR | adult | M&F | reproduction | reduced kit survival/whelping | ND | 0.66 | mg/kg bw/day | NR | NR | NR | ND | 0.66 |
| Käkelä et al. 2002 | Aroclor 1242 | 1.0 | mg/day | diet | 21 | weeks | 2 month old | female | reproduction | reduced kit weight | ND | 0.78 | mg/kg bw/day | NR | NR | NR | ND | 0.78 |
| Kihlstrom et al. 1992 | Clophen A50/Aroclor1254 | 1.64, 2 | mg/mink/day | diet | 78 - 95 | days | adult | female | reproduction | reproductive failure | ND | 1.64 | mg/mink/day | 1 | NR | NR | ND | 1.6 |
| Platonow and Karstad 1973 | Aroclor 1254 | 0.64,3.57 | mg/kg diet | diet | 160 | days | adult | M&F | reproduction | reduced kit survival | ND | 0.5 | mg/kg diet | 1 | 0.15 | 0.15 | ND | 0.075 |
| Restum et al. 1998[a] | Weathered PCB Mixture | 0.25,0.5,1.0 | mg/kg diet | diet | 557 | days | adult | M&F | reproduction | reduced kit body weight at 3 and 6 weeks (0.25); reduced kit survival (85% reduction at 0.5) | 0.25 | 0.5 | mg/kg diet | 1 | 0.15 | 0.15 | 0.05 | 0.10 |
| | Weathered PCB Mixture | 0.25,0.5,1.0 | mg/kg diet | diet | 557 | days | adult | M&F | growth | reduced kit body weight at 3 and 6 weeks (15-25% reduction at 6 weeks) | ND | 0.25 | mg/kg diet | 1 | 0.15 | 0.15 | ND | 0.05 |
| Wren et al. 1987a,b | Aroclor 1254 | 1.0 | mg/kg diet | diet | 8 | months | adult | M&F | reproduction | decreased male kit weight at 6 weeks | ND | 1 | mg/kg diet | 1 | 0.15 | 0.15 | ND | 0.15 |

**Notes:**

[a] Diet included field collected fish which may carry contaminants additional to PCB.

Selected as the basis for the dietary TRVs

**Food Ingestion Rate and Body Weight**

| *Species* | *Rate (kg/day)* | *Body Weight (kg)* | *Reference* |
|---|---|---|---|
| Mink | 0.15 | 1 | USEPA 1995 |

kg: kilogram(s)
kg/day: kilograms per day
kg/kg/day: kilograms per kilogram body weight per day
LOAEL: lowest-observed adverse effect level
M&F: male and female
mg/day: milligrams per day
mg/kg bw/day: milligrams per kilogram of body weight per day
mg/mink/day: milligrams per mink per day
ND: not determined
NOAEL: no-observed adverse effects level
NR: not reported
PCB: polychlorinated biphenyl
TRV: toxicity reference value

**Table D-8. Summary of Mink Dietary PCB Literature Considered for Toxicity Reference Value Development**
**Anniston PCB Site, Anniston, Alabama**

**References:**


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**Table D-9. Summary of Mammal Tissue PCB Literature Considered for Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Exposure | | | | | | | | | | | Effects | | | | | Tissue Residue | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Chemical Form | Test Organism | Dose | Dose Units | Route of Exposure | Exposure Duration | Duration Units | Age | Age Units | Lifestage | Sex | Effect Group | Endpoint | Study NOAEL | Study LOAEL | Study Units | NOAEL (mg/kg ww) | LOAEL (mg/kg ww) |
| Arena et al. 2003 | Aroclor 1254 | mouse (Mus) | 50 | mg/kg bw | s.c. inject | 2 | weeks | NR | NR | adult | female | growth | body weight | 50 | NR | mg/kg bw | 7.8 | NR |
| Baker et al. 1977 | Aroclor 1254 | Norway rat (*Rattus norvegicus*) | 6.4 | mg/kg | W | 9 | weeks | NR | NR | adult and pup | male and female | growth | body weight | 6.4 | NR | mg/kg bw | 59 | NR |
| Clark and Prouty 1977 | Aroclor 1254 | big brown bat (*Eptesicus fuscus*) | 9.4 | mg/kg | diet | 37 | days | NR | NR | adult | female | growth | 20% reduction in weight gain | NR | 9.4 | mg/kg | NR | 153 |
| French et al. 2001 | 2:1 Aroclor 1242:Aroclor 1254 | white footed mouse (*Peromyscus leucopus*) | 0,10,25 | mg/kg | diet | 4 | months | NR | NR | adult | male and female | physiological | body mass | 25 | NR | mg/kg bw | 15 | NR |
| Masuda et al. 1979 | Mixture | mouse (Mus) | 0.32/0.42 | mg/kg | diet | 18 | days | 10 | weeks | adult | female | reproduction / growth | weight gain/progeny count | NR | NR | NR | 0.95 | NR |
| McCoy et al. 1995 | Aroclor 1254 | Oldfield mouse (*Peromyscus polionotus*) | 5 | mg/kg | diet | 12 | months | 6-10 | weeks | adult | male and female | reproduction /growth | no effect in P1 gen; reduced litters/offspring per month in F1 gen | 3.28 | 7.51 | mg/kg bw | 3.3 | 7.5 |
| Segre et al. 2002 | 2:1 Aroclor 1242:1254 | white footed mouse (*Peromyscus leucopus*) | 25 | mg/kg | diet | 4 | months | 20 | weeks | juvenile | male and female | physiological | reduced thymocytes, increased liver weight, liver protein and somatic index, increased EROD activity | NR | 12.07 | mg/kg bw | NR | 12 |
| Welsch 1985 | Aroclor 1254 | mouse (Mus) | 0,1,10,100 | mg/kg | diet | 100 | days | NR | NR | fetus | male and female | development / growth | body weight/developmental deformities | NR | NR | NR | 5.1 | NR |
| Zabik et al. 1997 | Aroclor 1254 | Norway rat (*Rattus norvegicus*) | 1,10,30 | mg/kg | diet | 16 | days | 16 | dpg | pups | female | growth | no effect on body weight of pups | NR | 30 | mg/kg | 33 | NR |

**Notes:**
EROD: Ethoxyresorufin-O-deethylase
LOAEL: lowest-observed adverse effect level
mg/kg: milligrams per kilogram
mg/kg bw: milligrams per kilogram of body weight
mg/kg ww: milligrams per kilogram wet weight
NOAEL: no-observed adverse effects level
NR: not reported
PCB: polychlorinated biphenyl
s.c. inject: subcutaneous injection
TRV: toxocity reference value
W: in water
Selected as the basis for the tissue TRVs

**References:**

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**Table D-10. Summary of Data Considered for Fish Tissue PCB Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration / Doses[a] | Initial Lifestage | Route of Exposure | General Effect Group | Response Organism | Endpoint | Total PCB (mg/kg ww) | Residue (wet, dry, or lipid) | Lipid % ww | Total PCB (µg/g Lipid) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **NOAEL Tissue Concentrations** | | | | | | | | | | | | |
| Bengtsson 1980 | Minnow *Phoxinus phoxinus* | Clophen A50 | 4 | adult(s) | NR | mortality | organism | NOAEL | 1.6 | wet | NR | NR |
| Hansen et al. 1974 | Sheepshead Minnow *Cyprinodon variegatus* | Aroclor 1254 | 5 | adult(s) | water | mortality | organism | NOAEL | 1.9 | wet | NR | NR |
| Bengtsson 1980 | Minnow *Phoxinus phoxinus* | Clophen A50 | 4 | adult(s) | NR | mortality | organism | NOAEL | 15 | wet | NR | NR |
| Duke et al. 1970 | Pinfish *Lagodon rhomboides* | Aroclor 1254 | NR | juvenile | NR | mortality | juvenile | NOAEL | 17 | wet | NR | NR |
| Bengtsson 1980 | Minnow *Phoxinus phoxinus* | Clophen A50 | 4 | adult(s) | NR | growth | organism | NOAEL | 25 | wet | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | reproduction | organism | NOAEL | 84 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | reproduction | female organisms | NOAEL | 99 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | reproduction | female organisms | NOAEL | 104 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | reproduction | organism | NOAEL | 116 | NR | NR | NR |
| Opperhuizen and Schrap 1988 | Guppy *Poecilia reticulata* | Mixture | 6 | not reported, unknown | NR | mortality | male organisms | NOAEL | 325 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1242 | 6 | new, newly or recent hatch | NR | reproduction | organism | NOAEL | 335 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | mortality | female organisms | NOAEL | 361 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | reproduction | female organisms | NOAEL | 458 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | mortality | juvenile | NOAEL | 1018 | NR | NR | NR |
| DeFoe et al. 1978 | Fathead minnow *Pimephales promelas* | Aroclor 1248 | 5 | embryo(s) | NR | growth | F2 generation | NOAEL | 1500 | lipid | NR | NR |
| Bouraly and Millischer 1989 | Zebrafish *Brachydanio rerio* | Aroclor 1254 | NR | not reported, unknown | water | growth | NR | NOAEL | 4240 | wet | NR | NR |

**Table D-10. Summary of Data Considered for Fish Tissue PCB Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration / Doses[a] | Initial Lifestage | Route of Exposure | General Effect Group | Response Organism | Endpoint | Total PCB (mg/kg ww) | Residue (wet, dry, or lipid) | Lipid % ww | Total PCB (µg/g Lipid) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DeFoe et al. 1978 | Fathead minnow *Pimephales promelas* | Aroclor 1248 | 5 | embryo(s) | NR | mortality | F2 generation | NOAEL | 4500 | lipid | NR | NR |
| DeFoe et al. 1978 | Fathead minnow *Pimephales promelas* | Aroclor 1260 | 5 | embryo(s) | NR | growth | F2 generation | NOAEL | 6300 | lipid | NR | NR |
| **LOAEL Tissue Concentrations** | | | | | | | | | | | | |
| Orn et al. 1998 | Zebrafish *Brachydanio rerio* | Mixture | NR | juvenile | diet | mortality | organism | LOAEL | 1.1 | wet | NR | NR |
| Hansen et al. 1974 | Sheepshead Minnow Cyprinodon variegatus | Aroclor 1254 | 5 | adult(s) | water | mortality | organism | LOAEL | 9.3 | wet | NR | NR |
| Bengtsson 1980 | Minnow *Phoxinus phoxinus* | Clophen A50 | 4 | adult(s) | NR | mortality | organism | LOAEL | 15 | wet | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | reproduction | female organisms | LOAEL | 60 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1242 | 6 | new, newly or recent hatch | NR | reproduction | organism | LOAEL | 77 | NR | 4.2 | 1833 |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1242 | 6 | new, newly or recent hatch | NR | reproduction | female organisms | LOAEL | 92 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1242 | 6 | new, newly or recent hatch | NR | reproduction | female organisms | LOAEL | 92 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1242 | 6 | new, newly or recent hatch | NR | reproduction | female organisms | LOAEL | 98 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1242 | 6 | new, newly or recent hatch | NR | reproduction | female organisms | LOAEL | 98 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1242 | 6 | new, newly or recent hatch | NR | reproduction | organism | LOAEL | 111 | NR | NR | NR |
| Bengtsson 1980 | Minnow *Phoxinus phoxinus* | Clophen A50 | 4 | adult(s) | NR | mortality | organism | LOAEL | 170 | wet | NR | NR |
| Bengtsson 1980 | Minnow *Phoxinus phoxinus* | Clophen A50 | 4 | adult(s) | NR | growth | organism | LOAEL | 200 | wet | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | reproduction | organism | LOAEL | 232 | NR | NR | NR |
| DeFoe et al. 1978 | Fathead minnow *Pimephales promelas* | Aroclor 1248 | 5 | embryo(s) | NR | population | F2 generation | LOAEL | 250 | lipid | NR | NR |

**Table D-10. Summary of Data Considered for Fish Tissue PCB Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration / Doses[a] | Initial Lifestage | Route of Exposure | General Effect Group | Response Organism | Endpoint | Total PCB (mg/kg ww) | Residue (wet, dry, or lipid) | Lipid % ww | Total PCB (µg/g Lipid) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Opperhuizen and Schrap 1988 | Guppy *Poecilia reticulata* | Mixture | 6 | not reported, unknown | NR | mortality | male organisms | LOAEL | 325 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | reproduction | organism | LOAEL | 331 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1242 | 6 | new, newly or recent hatch | NR | mortality | juvenile | LC50 | 335 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | reproduction | female organisms | LOAEL | 361 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | reproduction | female organisms | LOAEL | 361 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | reproduction | female organisms | LOAEL | 458 | NR | NR | NR |
| DeFoe et al. 1978 | Fathead minnow *Pimephales promelas* | Aroclor 1248 | 5 | embryo(s) | NR | growth | F2 generation | LOAEL | 500 | lipid | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | reproduction | female organisms | LOAEL | 741 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | mortality | female organisms | LOAEL | 1004 | NR | NR | NR |
| Nebeker et al. 1974 | Fathead minnow *Pimephales promelas* | Aroclor 1254 | 6 | new, newly or recent hatch | NR | mortality | juvenile | LC50 | 1018 | NR | NR | NR |
| DeFoe et al. 1978 | Fathead minnow *Pimephales promelas* | Aroclor 1248 | 5 | embryo(s) | NR | growth | F2 generation | LOAEL | 4500 | lipid | NR | NR |

**Notes:**
a. When wet or dry weight was not specified in study, diet doses were assumed to be wet weight.

%: percent
mg/kg: milligrams per kilogram
NR: not reported
ww: wet weight
LOAEL: lowest-observed adverse effects level
NOAEL: no-observed adverse effects level
PCB: polychlorinated biphenyl
µg/g: micrograms per gram
Selected as the basis for the tissue TRVs

**References:**

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**Table D-11. Summary of Data Considered for Aquatic Oligochaete Tissue PCB Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration / Doses[a] | Initial Lifestage | Route of Exposure | General Effect Group | Measurement Description | Response Organism | Endpoint | Total PCB (mg/kg ww) | Residue (wet, dry, or lipid) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NOAEL Tissue Concentrations** | | | | | | | | | | | |
| Rubinstein et al. 1983 | Polychaete (*Nereis virens)* | Aroclor 1254 and 1242 (New York Harbor) | 4 | Adult | Combined | survival | 100-d exposure | organism | NOAEL | 0.60 | wet |
| Burton et al. 2005 | Oligochaete (*Lumbriculus variegatus)* | Mixture (Housatonic River) | 6 | Adult | Combined | mortality | 7-d in-situ exposures | organism | NOAEL | 5.5 | wet |
| Rice et al. 2000 | Polychaete (*Armandia brevis)* | Aroclor 1254 | 1 | Adult | Combined | growth, survival | 15% reduction in growth | organism | NOAEL [e] | 30 | wet |
| Fisher et al. 1999 [b,c] | Oligochaete (*Lumbriculus variegatus)* | Aroclor 1254 | 6 | Adult | Ingestion | growth/reproduction | 35-d chronic exposures | organism | NOAEL | 92 | wet |
| Fisher et al. 1999 [b] | Oligochaete (*Lumbriculus variegatus)* | Aroclor 1254 | 6 | Adult | Ingestion | mortality | 35-d chronic exposures | organism | NOAEL | 92 | wet |
| **LOAEL Tissue Concentrations** | | | | | | | | | | | |
| Fisher et al. 1999 [b] | Oligochaete (*Lumbriculus variegatus)* | Aroclor 1254 | 6 | Adult | Ingestion | growth/ reproduction | 20-40% reduction in biomass | organism | LOAEL | 112 | wet |
| Fisher et al. 1999 [b,c] | Oligochaete (*Lumbriculus variegatus)* | Aroclor 1254 | 6 | Adult | Ingestion | mortality | ≤27% mortality in 35-d chronic exposures | organism | LOAEL | 112 | wet |
| Fowler et al. 1978 [d] | Polychaete (*Nereis diversicolor)* | Phenoclor DP-5 | 3 | Adult | Sediment | mortality | 0% survival after 90-d exposure | organism | LOAEL | 170 | wet |

**Notes:**
a. When wet or dry weight was not specified in study, diet doses were assumed to be wet weight.
b. Consistent response observed across four PCB congeners. Molar concentrations for congeners converted to molar equivalent Aroclor 1254 concentration.
c. Lethal residues in deceased organisms reported for four congeners ranged from 0.88-1.2 mmol/kg (287 - 392 mg/kg).
d.Wet weight or lipid conversions based on 0.092% lipid and 17% solids for *L. variegatus* (Landrum et al. 2004)
e. Effect levels greater than 20% assumed to be equivalent to LOAEL; less than 20% survival assumed to be equivalent to NOAEL.
Selected as the basis for tissue TRVs

%: percent
d: day
LOAEL: lowest-observed adverse effects level
mg/kg: milligrams per kilogram
mmol/kg: micormoles per kilogram
NOAEL: no-observed adverse effects level
NR: not reported
PCB: polychlorinated biphenyl
TRV: toxicity reference value
ww: wet weight

**Table D-11. Summary of Data Considered for Aquatic Oligochaete Tissue PCB Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

**References:**


Burton GA Jr, MS Greenberg, CD Rowland, CA Irvine, DR Lavioie, JA Brooker, L Moore, DFN Raymer, and RA McWilliam. 2005. In situ exposures using caged organisms: a multi-compartment approach to detect aquatic toxicity and bioaccumulation. Environ Pollut 134:133-144

Fisher S, SW Chordas III, and PF Landrum. 1999. Lethal and sublethal body residues for PCB intoxication in the oligochaete, *Lumbriculus variegatus* Aquatic Toxicology Volume 45, Issues 2–3: 115–126.

Fowler, SW, GG Polikarpov, DL Elder, P Parsi, and JP Villeneuve. 1978. Polychlorinated biphenyls: Accumulation from contaminated sediments and water by the polychaete *Nereis diversicolor*. Marine Biology 48:303-309.

Landrum PF, M Leppanen, SD Robinson, DC Gossiaux, GA Burton, M Greenberg, JVK Kukkonen, BJ Eadie, MB Lansing. 2004. Effect of 3,4,3′,4′-tetrachlorobiphenyl on the reworking behavior of *Lumbriculus variegatus* exposed to contaminated sediment. Environ Tox & Chem 23:178-186.

Rice CA, MS Myers, ML Willis, BL French, and E Casillas. 2000. From sediment bioassay to fish biomarker – connecting the dots using simple trophic relationships. Mar Environ Res 50:527-533.

Rubinstein NI, E Lores, and NR Gregory. 1983. Accumulation of PCBs, mercury and cadmium by *Nereis virens, Mercenaria mercenaria*, and *Palaemonetes pugio* from contaminated harbor sediments. Aquatic Toxicology 3:249-260.

**Table D-12. Summary of Data Considered for Aquatic Emergent Insect Tissue PCB Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration/ Doses[a] | Initial Lifestage | Route of Exposure | General Effect Group | Measurement Description | Response Organism | Endpoint | Total PCB (mg/kg ww) | Residue (wet, dry, or lipid) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NOAEL Tissue Concentrations** | | | | | | | | | | | |
| Sodergren and Svensson 1973 | Mayfly (*Ephemera danica*) | Clophen A50 | 1 | Juvenile | Water | mortality, growth | 9-d exposure | organism | NOAEL | 1.4 | wet |
| Sanders and Chandler 1972 [b] | Midge (*Corydalus cornutus*) | Aroclor 1254 | 1 | Immature | Combined | mortality | 21-d exposure | organism | NOAEL | 1.5 | wet |
| | Giant Black Stonefly (*Pteronarcys dorsata*) | Aroclor 1254 | 1 | Immature | Combined | mortality | 21-d exposure | organism | NOAEL | 1.5 | wet |
| | Mosquito (*Culex tarsalis*) | Aroclor 1254 | 1 | Immature | Combined | mortality | 7-d exposure | organism | NOAEL | 6.0 | wet |
| | Midge (*Chaoborus punctipennis*) | Aroclor 1254 | 1 | Immature | Combined | mortality | 14-d exposure | organism | NOAEL | 6.5 | wet |

**Notes:**

a. When wet or dry weight was not specified in study, diet doses were assumed to be wet weight.

b. Converted to wet weight assuming 31% solids, based on OU-4 emergent insect data.

%: percent
d: day
mg/kg: milligrams per kilogram
NOAEL: no-observed adverse effects level
PCB: polychlorinated biphenyl
ww: wet weight

**References:**

Sodergren A, B Svensson.1973. Uptake and accumulation of DDT and PCB by *Ephemera danica* (Ephemeroptera) in Continuous-Flow systems. Bull Environ Contam Toxicol 09(6):345-350.
Sanders HO, and JH Chandler. 1972. Biological magnification of a polychlorinated biphenyl (Aroclor 1254) from water by aquatic invertebrates. Bull. Environ. Contain. Toxicol. 7(5), 257-63

**Table D-13. Summary of Data Considered for Aquatic Epibenthic Tissue PCB Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration / Doses[a] | Initial Lifestage | Route of Exposure | General Effect Group | Measurement Description | Response Organism | Endpoint | Total PCB (mg/kg ww) | Residue (wet, dry, or lipid) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NOAEL Tissue Concentrations** | | | | | | | | | | | |
| Sanders and Chandler 1972 [b] | Amphipod (*Gammarus pseudolimnaeus)* | Aroclor 1254 | 1 | Mature | Combined | mortality | 14-d exposure | organism | NOAEL | 12 | wet |
| Borgmann et al. 1990 | Amphipod (*Hyalella azteca)* | Aroclor 1242 | 5 | Adult | Absorption | mortality, growth, reproduction | 10-week chronic exposures | organism | NOAEL | 28 | wet |
| Nebeker and Puglisi 1974 | Amphipod (*Gammarus pseudolimnaeus)* | Aroclor 1242 | 6 | Juvenile | Water | reproduction | # young produced | organism | NOAEL | 76 | wet |
| Nebeker and Puglisi 1974 | Amphipod (*Gammarus pseudolimnaeus)* | Aroclor 1248 | 6 | Juvenile | Water | reproduction | # young produced | organism | NOAEL | 127 | wet |
| **LOAEL Tissue Concentrations** | | | | | | | | | | | |
| Nebeker and Puglisi 1974 | Amphipod (*Gammarus pseudolimnaeus)* | Aroclor 1242 | 6 | Juvenile | Water | reproduction | 40% reduction in offpsring production/adult in 60-d exposure. | organism | LOAEL | 76 | wet |
| Nebeker and Puglisi 1974 | Amphipod (*Gammarus pseudolimnaeus)* | Aroclor 1242 | 6 | Juvenile | Water | reproduction | No young produced | organism | LOAEL | 316 | wet |
| Nebeker and Puglisi 1974 | Amphipod (*Gammarus pseudolimnaeus)* | Aroclor 1248 | 6 | Juvenile | Water | reproduction | 50% reduction in young produced; | organism | NOAEL | 552 | wet |

**Notes:**
a. When wet or dry weight was not specified in study, diet doses were assumed to be wet weight.
b. Converted to wet weight assuming 18% solids, based on the average sitewide odonate solids content.
Selected as the basis for tissue TRVs

%: percent
d: day
LOAEL: lowest-observed adverse effects level
mg/kg: milligrams per kilogram
NOAEL: no-observed adverse effects level
PCB: polychlorinated biphenyl
TRV: toxicity reference value
ww: wet weight

**References:**
Borgmann, U, WP Norwood, and KM Ralph. 1990. Chronic toxicity and bioaccumulation of 2,5,2N,5N- and 3,4,3N,4N-tetrachlorobiphenyl and Aroclor 1242 in the amphipod *Hyalella azteca* . Arch. Environ. Contam. Toxicol. 19:558-564

Nebeker, AV, Puglisi, FA, 1974. Effect of polychlorinated biphenyls (PCBs) on survival and reproduction of Daphnia, Gammarus and Tanytarsus. Trans. Am. Fish. Soc. 4, 722– 728.

Sanders, HO, and JH Chandler. 1972. Biological magnification of a polychlorinated biphenyl (Aroclor 1254) from water by aquatic invertebrates. Bull. Environ. Contain. Toxicol. 7(5), 257-63

**Table D-14. Summary of Data Considered for Mollusc Tissue PCB Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration / Doses[a] | Initial Lifestage | Route of Exposure | General Effect Group | Measurement Description | Response Organism | Endpoint | Total PCB (mg/kg ww) | Residue (wet, dry, or lipid) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NOAEL Tissue Concentrations** | | | | | | | | | | | |
| Rubinstein et al. 1983 | Clam (*Mercenaria mercenaria)* | Aroclor 1254 and 1242 (New York Harbor) | 4 | Adult | Combined | survival | 100-d exposure | organism | NOAEL | 0.12 | wet |
| Duke et al. 1970 | Eastern oyster (*Crassostrea virginica*) | Aroclor 1254 | 3 | Juvenile | Absorption | growth/ reproduction | 19% reduction in shell growth in 96-hr exposure | organism | NOAEL [b] | 8.1 | wet |
| Duke et al. 1970 | Eastern oyster (*Crassostrea virginica*) | Aroclor 1254 | 3 | Juvenile | Absorption | mortality | 96-hr exposure | organism | NOAEL | 33 | wet |
| Lowe et al. 1972 | Eastern oyster (*Crassostrea virginica*) | Aroclor 1254 | 3 | Juvenile | Absorption | growth | 24-week exposure | organism | NOAEL | 101 | wet |
| Lowe et al. 1972 | Eastern oyster (*Crassostrea virginica*) | Aroclor 1254 | 5 | Juvenile | Absorption | mortality | 24-week exposure | organism | NOAEL | 425 | wet |
| **LOAEL Tissue Concentrations** | | | | | | | | | | | |
| Duke et al. 1970 | Eastern oyster (*Crassostrea virginica*) | Aroclor 1254 | 3 | Juvenile | Absorption | growth/ reproduction | 41% reduction in shell growth in 96-hr exposure | organism | LOAEL | 33 | wet |
| Hansen et al. 1974 | Eastern oyster (*Crassostrea virginica*) | Aroclor 1016 | 1 | Adult | Absorption | growth | 38% reduction in shell growth | organism | LOAEL | 32 | wet |
| Lowe et al. 1972 | Eastern oyster (*Crassostrea virginica*) | Aroclor 1254 | 5 | Juvenile | Absorption | growth | ~25% reduction in weight and length after 12 weeks exposure | organism | LOAEL | 150 | wet |

**Notes:**
a. When wet or dry weight was not specified in study, diet doses were assumed to be wet weight.
b. Effect levels greater than 20% assumed to be equivalent to LOAEL; less than 20% survival assumed to be equivalent to NOAEL.
Selected as the basis for tissue TRVs

%: percent
d: day
hr: hour
LOAEL: lowest-observed adverse effects level
mg/kg: milligrams per kilogram
NOAEL: no-observed adverse effects level
PCB: polychlorinated biphenyl
TRV: toxocity reference values
ww: wet weight

**References:**

Duke, TW, JI Lowe, and AJ Wilson, Jr. 1970. A polychlorinated biphenyl (Aroclor 1254) in the water, sediment, and biota of Escambia Bay, Florida. Bull. Environm. Contam. Toxicol. 5:171-180.
Hansen, DJ, PR Parrish, and J Forester. 1974. Aroclor 1016: Toxicity to and uptake by estuarine animals. Environ. Res. 7:363-373
Lowe, JI, PR Parrish, JA Patrick, Jr., and J Forester. 1972. Effects of the polychlorinated biphenyl Aroclor 1254 on the American oyster *Crassostrea virginica*. Marine Biol. 17:209-214
Rubinstein, NI, E Lores, NR Gregory. 1983. Accumulation of PCBs, mercury and cadmium by *Nereis virens*, *Mercenaria mercenaria*, and *Palaemonetes pugio* from contaminated harbor sediments. Aquatic Toxicology 3:249-260.

**Table D-15. Summary of Data Considered for Crayfish Tissue PCB Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration / Doses[a] | Initial Lifestage | Route of Exposure | General Effect Group | Measurement Description | Response Organism | Endpoint | Total PCB (mg/kg ww) | Residue (wet, dry, or lipid) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NOAEL Tissue Concentrations** | | | | | | | | | | | |
| Rubinstein et al. 1983 | Shrimp - Grass (*Palaemonetes pugio)* | Aroclor 1254 and 1242 (New York Harbor) | 4 | Adult | Combined | survival | 100-d exposure | organism | NOAEL | 0.10 | wet |
| Sanders and Chandler 1972 [b] | Crayfish (*Orconectes nais)* | Aroclor 1254 | 1 | Mature | Combined | mortality | 21-d exposure | organism | NOAEL | 1.7 | wet |
| Duke et al. 1970 | Shrimp - Pink (*Penaeus duorarum* ) | Aroclor 1254 | 3 | Juvenile | Water | mortality | 48-hr exposure | organism | NOAEL | 1.3 | wet |
| Sanders and Chandler 1972 [b] | Shrimp - Glass (*Palaemonetes kadiakensis* ) | Aroclor 1254 | 1 | Mature | Combined | mortality | 21-d exposure | organism | NOAEL | 6.0 | wet |
| Sanders and Chandler 1972 [b] | Water flea (*Daphnia magna* ) | Aroclor 1254 | 1 | Mature | Combined | mortality | 96-hr exposure | organism | NOAEL | 15 | wet |
| Nimmo et al. 1974 | Shrimp - Grass Shrimp (*Palaemonetes pugio)* | Aroclor 1254 | 3 | NA | Water | mortality | 16-d flow through exposures | organism | NOAEL | 18 | wet |
| Duke et al. 1970 | Crab - Blue (*Callinectes sapidus* ) | Aroclor 1254 | 5 | Juvenile | Water | mortality | 20-d exposure | organism | NOAEL | 23 | wet |
| **LOAEL Tissue Concentrations** | | | | | | | | | | | |
| Hansen et al. 1974 | Shrimp - Grass Shrimp (*Palaemonetes pugio)* | Aroclor 1016 | 1 | Adult | Absorption | mortality | 33% mortality in 96-hr exposure | organism | LOAEL | 1.1 | wet |
| Hansen et al. 1974 | Shrimp - Brown (*Penaeus aztecus* ) | Aroclor 1016 | 1 | NR | Absorption | mortality | 8% mortality in 96-hr exposure | organism | LOAEL | 3.8 | wet |
| Duke et al. 1970 | Shrimp - Pink (*Penaeus duorarum* ) | Aroclor 1254 | 3 | Juvenile | Water | mortality | 100% mortality in 48-hr exposure | organism | LOAEL | 3.9 | wet |
| Duke et al. 1970 | Shrimp - Pink (*Penaeus duorarum* ) | Aroclor 1254 | 1 | Juvenile | Water | mortality | lethal residues in dead shrimp; survivors contained 33 mg/kg ww; 72% mortality in 20-d exposure | organism | LOAEL | 16 | wet |
| Nimmo et al. 1974 | Shrimp - Grass (*Palaemonetes pugio* ) | Aroclor 1254 | 1 | NR | Absorption | mortality | 45% increase in mortality in 16-d exposure | organism | LOAEL | 27 | wet |

**Notes:**
a. When wet or dry weight was not specified in study, diet doses were assumed to be wet weight.
b. Converted to wet weight assuming 28% solids, based on the average sitewide solids content for crayfish.
Selected as the basis for tissue TRVs

%: percent
d: day
hr: hour
LOAEL: lowest-observed adverse effects level
mg/kg: milligrams per kilogram
NA: not applicable
NOAEL: no-observed adverse effects level
NR: not reported
PCB: polychlorinated biphenyl
TRV: toxicity reference value
ww: wet weight

**Table D-15. Summary of Data Considered for Crayfish Tissue PCB Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

**References:**

Duke, TW, JI Lowe, and AJ Wilson Jr. 1970. Polychlorinated biphenyl (Aroclor 1254) in the water, sediment, and biota of Escambia Bay, Florida. Bull. Environ. Contam. Toxicol. 5(2):171-180.

Hansen, DJ, PR Parrish, and J Forester. 1974. Aroclor 1016: Toxicity to and uptake by estuarine animals. Environ. Res. 7:363-373

Nimmo, DR, J Forester, PT Heitmuller, and GH Cook. 1974. Accumulation of Aroclor® 1254 in grass shrimp (*Palaemonetes pugio*) in laboratory and field exposures. Bull Environ Contam Toxicol 11(4):303-308

Rubinstein, NI, E. Lores, NR Gregory. 1983. Accumulation of PCBs, mercury and cadmium by *Nereis virens, Mercenaria mercenaria*, and *Palaemonetes pugio* from contaminated harbor sediments. Aquatic Toxicology 3:249-260.

Sanders, HO, and JH Chandler.1972. Biological magnification of a polychlorinated biphenyl (Aroclor 1254) from water by aquatic invertebrates. Bull. Environ. Contain. Toxicol. 7(5), 257-63

**Table D-16. Summary of Data Considered for Earthworm Tissue PCB Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration/ Doses[a] | Initial Lifestage | Route of Exposure | General Effect Group | Measurement Description | Response Organism | Endpoint | Total PCB (mg/kg ww) | Residue (wet, dry, or lipid) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NOAEL Tissue Concentrations** | | | | | | | | | | | |
| Rodriguez-Grau et al. 1989 [c] | Earthworm (*Lumbriculus terrestris*) | Aroclor 1254 | 9 | Adult | Absorption | mortality | 5-d exposure on filter paper | organism | NOAEL | 172 | wet |
| Fitzpatrick et al. 1992 [c] | Earthworm *(Eisenia foetida)* | Aroclor 1254 | 9 | Adult | Absorption | mortality | 5-d exposure on filter paper | organism | NOAEL [b] | 1900 | dry |
| **LOAEL Tissue Concentrations** | | | | | | | | | | | |
| Rodriguez-Grau et al. 1989 [c] | Earthworm (*Lumbriculus terrestris*) | Aroclor 1254 | 9 | Adult | Absorption | mortality | survival reduced by 25% in 5-d exposure on filter paper | organism | LOAEL | 183 | wet |
| Fitzpatrick et al. 1992 [c] | Earthworm *(Eisenia foetida)* | Aroclor 1254 | 9 | Adult | Absorption | mortality | survival reduced by 25% in 5-d exposure on filter paper | organism | LOAEL | 2900 | dry |

**Notes:**
a. When wet or dry weight was not specified in study, diet doses were assumed to be wet weight.
b. Survival greater than 80% assumed to be equivalent to NOAEL; less than 80% survival assumed to be equivalent to LOAEL.
c. Converted to wet weight assuming 22% solids (Rodriguez-Grau et al. 1989).
Selected as the basis for tissue TRVs

%: percent
d: day
LOAEL: lowest-observed adverse effects level
mg/kg: milligrams per kilogram
NOAEL: no-observed adverse effects level
PCB: polychlorinated biphenyl
TRV: toxicity reference value
ww: wet weight

**References:**
Rodriguez-Grau, J, BJ Venables, LC Fitzpatrick, AJ Goven. 1989. Suppression of secretory rosette formation by PCBs in *Lumbriculus terrestris* : an earthworm assay for humoral immunotoxicity of xenobiotics. Environ Tox Chem 8: 1201-1207.
Fitzpatrick, LC, R Sassani, BJ Venables, AJ Goven. 1992. Comparative toxicity of polychlorinated biphenyls to earthworms *Eisenia foetida* and *Lumbriculus terrestris* . Envir Poll 77: 65-69.

**Table D-17. Summary of Data Considered for Grasshopper Tissue PCB Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration/ Doses[a] | Initial Lifestage | Route of Exposure | General Effect Group | Measurement Description | Response Organism | Endpoint | Total PCB (mg/kg ww) | Residue (wet, dry, or lipid) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NOAEL Tissue Concentrations** | | | | | | | | | | | |
| Paine et al. 1993 | Cricket (*Acheta domesticus)* | Aroclor 1254 | 6 | juvenile | Absorption | mortality | 14-d soil exposure | organism | NOAEL | 92 | wet |
| **LOAEL Tissue Concentrations** | | | | | | | | | | | |
| Paine et al. 1993 | Cricket (*Acheta domesticus)* | Aroclor 1254 | 6 | juvenile | Absorption | mortality | 39- 49% survival in 14-d soil exposure | organism | LOAEL | 144 | wet |

**Notes:**
a. When wet or dry weight was not specified in study, diet doses were assumed to be wet weight.
Selected as the basis for tissue TRVs

d: day
%: percent
LOAEL: lowest-observed adverse effects level
mg/kg: milligrams per kilogram
NOAEL: no-observed adverse effects level
NR: not reported
PCB: polychlorinated biphenyl
TRV: toxicity reference value
ww: wet weight
µg/g: micrograms per gram

**References:**
Paine, JM, MJ McKee, ME Ryan. 1993. Toxicity and bioaccumulation of soil PCBs incrikets: comparison of laboratory and field studies. Environ Tox Chem 12: 2097-2103.

**Table D-18. Summary of Avian Egg Mercury Toxicity Data Considered for Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Exposure | | | | | | | Effects | | Results | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Chemical Form | Test Organism | Dose | Dose Units | Route of Exposure | Exposure Duration | Duration Units | Effect Group | Endpoint | NOAEL (µg/g ww) | LOAEL (µg/g ww) |
| Jackson et al. 2011 | mercury | Carolina wren (*Thryothorus ludovicianus*) | NR | NR | wild population | NR | NR | reproduction | reduction in nest success | 0.11 | 0.20 |
| Wiemeyer et. al. 1984 | mercury | bald eagle (*Haliaeetus leucocephalus*) | NR | NR | wild population | NR | NR | reproduction | 5 year productivity | 0.50 | NA |
| Haseltine et al. 1981 | mercury | red-breasted merganser (*Mergus serrator*) | NR | NR | wild population | NR | NR | reproduction | hatching success | 0.52 | NA |
| Stoewsand et al. 1971 | mercuric chloride | Japanese quail (*Coturnix japonica*) | 1-8 | mg/kg | dietary | NR | weeks | reproduction | eggshell thickness | 0.30 | 0.70 |
| Heinz and Hoffman 2003 | methylmercury chloride | mallard (*Anas platyrhynchos*) | 5,10,20 | mg/kg | dietary | reproductive period | NR | reproduction | impaired embryo development | NA | 0.74-38 |
| Heinz 1979 | methylmercury | mallard (*Anas platyrhynchos*) | 0.5 | mg/kg | dietary | 3 | generation | reproduction | third generation - reduced egg and young production, eggshell thinning, duckling response to maternal call, duckling avoidance behavior | NA | 0.83 |
| Heinz and Hoffman 2003 | methylmercury chloride | mallard (*Anas platyrhynchos*) | 5,10,20 | mg/kg | dietary | reproductive period | NR | reproduction | impaired embryo development | NA | 0.93-18 |
| Heinz 1976a,b | methylmercury | mallard (*Anas platyrhynchos*) | 0.5 | mg/kg | dietary | 2 | years | reproduction | second generation - reduced offspring survival, avoidance response of offspring | 0.79-1.1 | 5.5-7.4 |
| Heinz 1974 | methylmercury dicyandiamide | mallard (*Anas platyrhynchos*) | 0.5, 3 | mg/kg | dietary | through hatching | NR | reproduction | first generation - depressed hatching success, depressed egg production, and reduced duckling survival to 1 week of age | 1.0 | 6.0-9.0 |
| Scott et al. 1975 | mercuric sulfate | chicken (*Gallus gallus domesticus*) | 100,200 | mg/kg | dietary | 8 | weeks | reproduction | reduced hatchability | NA | 29 |
| Scott et al. 1975 | methylmercury chloride | chicken (*Gallus gallus domesticus*) | 10,20 | mg/kg | dietary | 8 | weeks | reproduction | reduced egg weight, fertility and hatchability of eggs | NA | 40 |
| Newton et al. 1989 | mercury | peregrine falcon - inland (*Falco peregrinus*) | NR | NR | wild population | NR | NR | reproduction | reduced brood size | NA | 0.042 |
| Fyfe et al. 1976 | mercury | prairie falcon (*Falco peregrinus*) | NR | NR | wild population | NR | NR | reproduction | reproductive parameters - number of eggs/young | 0.07 | NA |
| Fyfe et al. 1976 | mercury | Richardson's merlin (*Falco columbarius*) | NR | NR | wild population | NR | NR | reproduction | reproductive parameters - number of eggs/young | 0.13 | NA |
| Newton et al. 1989 | mercury | peregrine falcon - coastal (*Falco peregrinus*) | NR | NR | wild population | NR | NR | reproduction | reduced brood size | | 0.25 |
| Koivusaari et al. 1972 | mercury | osprey (*Pandion haliaetus*) | NR | NR | wild population | NR | NR | reproduction | reproduction normal | 0.30 | NA |
| Henny and Herron 1989 | mercury | white-faced ibis (*Plegadis chihi*) | NR | NR | wild population | NR | NR | reproduction | young produced/successful nest; young produced/nesting attempts | <0.2 | NA |
| Westermark 1965 | mercury | osprey (*Pandion haliaetus*) | NR | NR | dietary | NR | NR | reproduction | reproduction normal | 0.1-0.4 | NA |
| Hakkinen and Hasanen 1980 | mercury | osprey (*Pandion haliaetus*) | NR | NR | wild population | NR | NR | reproduction | hatchability | 0.1-0.4 | NA |
| Odsjo and Sondell 1977 | mercury | marsh harrier (*Circus aeruginosus*) | NR | NR | wild population | NR | NR | reproduction | number of young per clutch | 0.2-0.4 | NA |
| Fimreite et al. 1974 | mercury | gannet (Morus) | NR | NR | wild population | NR | NR | reproduction | hatching possibly impaired | NA | 0.50 |
| Hoffman and Moore 1979 | mercury | mallard (*Anas platyrhynchos*) | NR | NR | external application | NR | NR | reproduction | decreased embryonic growth, 58% abnormal chicks | NA | 0.53 |
| Newton and Haas 1988 | mercury | merlin (*Falco columbarius*) | NR | NR | wild population | NR | NR | reproduction | decrease in brood size | NA | 0.60 |
| Fimreite et al. 1971 | methylmercury dicyandiamide | common tern (*Sterna hirundo*) | 12-15 | mg/kg | dietary | 2,4,12 | weeks | reproduction | reproduction possibly affected | NA | 0.60 |

**Table D-18. Summary of Avian Egg Mercury Toxicity Data Considered for Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Exposure | | | | | | | Effects | | Results | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Chemical Form | Test Organism | Dose | Dose Units | Route of Exposure | Exposure Duration | Duration Units | Effect Group | Endpoint | NOAEL (µg/g ww) | LOAEL (µg/g ww) |
| Fimreite et al. 1971 | methylmercury dicyandiamide | red-breasted merganser (*Mergus serrato* r) | 12-15 | mg/kg | dietary | 2,4,12 | weeks | reproduction | reproduction possibly affected | NA | 0.80 |
| Heinz 1979 | mercury | common loon (*Gavia immer* ) | NR | NR | dietary | NR | NR | behavior | aberrant nesting behavior | NA | 0.86 |
| Helander et al. 1982 | mercury | white-tailed eagle (*Haliaeetus albicilla* ) | NR | NR | wild population | NR | NR | reproduction | reproductive success | 0.92 | NA |
| Koivusaari et al. 1972 | mercury | white-tailed eagle (*Haliaeetus albicilla* ) | NR | NR | wild population | NR | NR | reproduction | reproduction low | NA | 1.0 |
| Borg et al. 1965 | mercury | white-tailed eagle (*Haliaeetus albicilla* ) | NR | NR | wild population | NR | NR | reproduction | sterility | NA | 3.5 |
| Fimreite 1974 | mercury | common tern (*Sterna hirundo* ) | NR | NR | wild population | NR | NR | reproduction | low hatch success | NA | 3.7 |
| Finley and Stendell 1978 | methylmercury | black ducks (*Anas rubripes* ) | 3 | ppm | NR | 28 | weeks | reproduction | lower hatchability | NA | 5.5 |
| Koivusaari et al. 1980 | mercury | white-tailed eagle (*Haliaeetus albicilla* ) | NR | NR | wild population | NR | NR | reproduction | reproductive success | 0.33-2.25 | NA |
| Fimreite 1971 | methylmercury dicyandiamide | ring-necked pheasant (*Phasianus colchicus* ) | 2-3 | mg/kg | dietary | 12 | weeks | reproduction | reduced hatchability, reduced chick survival, reduced egg weight | NA | 0.5-1.5 |
| Spann et al. 1972 | ethyl mercury *p* -toluene sulfonanilide | pheasant (Phasianinae) | 4.2-12.5 | mg/kg ww | NR | NR | NR | reproduction | reduced hatch rate, reduced chick survival | NA | 0.9-3.1 |
| Vermeer et al. 1973 | mercury | herring gull (*Larus argentatus* ) | NR | NR | wild population | NR | NR | reproduction | hatching success/fledging success | 2.3-16 | NA |

**Notes:**
LOAEL: lowest-observed adverse effect level
mg/kg: milligrams per kilogram
NA: not applicable
NOAEL: no-observed adverse effect level
NR: not reported
ppm: parts per million (mg/kg)
TRV: toxicity reference value
ww: wet weight
µg/g: micrograms per gram
Selected as the basis for tissue TRVs

**Table D-18. Summary of Avian Egg Mercury Toxicity Data Considered for Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

**References:**


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**Table D-19. Summary of Data Considered for Fish Tissue Mercury Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration/ Doses | Initial Lifestage | Route of Exposure | General Effect Group | Result Remark | Response Organism | Residue Site | Endpoint | Total Mercury (mg/kg ww) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NOAEL Tissue Concentrations** | | | | | | | | | | | |
| Friedman et al. 1996 | Walleye (*Sander vitreus)* | methymercury | 2 | 6 months | food | reproduction | NOAEL at control dose | adult | whole body | NOAEL | 0.06 |
| Weis and Weis 1978 | Striped mullet (*Mugil cephalus)* | methymercury | NR | NR | aqueous | development | NOAEL at control dose | NR | whole body | NOAEL | 0.10 |
| Hammerschmidt et al. 2002 | Fathead minnow (*Pimephales promelas)* | methymercury | 3 | juvenile | food | reproduction | NOAEL at control dose | adult | whole body | NOAEL | 0.10 |
| Matta et al. 2001 | Mummichog (*Fundulus heteroclitus)* | methymercury | 4 | adult | food | mortality | NR | adult | whole body | NOAEL | 0.21 |
| Webber and Haines 2003 | Golden shiner *(Notemigonus crysoleucas)* | methymercury | 2 | NR | food | behavior | NR | adult | whole body | NOAEL | 0.23 |
| Snarski and Olson 1982 | Fathead minnow (*Pimephales promelas)* | mercury chloride | 5 | juvenile | aqueous | growth | NR | juvenile | whole body | NOAEL | 0.62 |
| Drevnick and Sandheinrich 2003 | Fathead minnow (*Pimephales promelas)* | methymercury | 2 | embryo | food | reproduction | NOAEL at control dose | adult | whole body | NOAEL | 0.079 |
| **LOAEL Tissue Concentrations** | | | | | | | | | | | |
| Friedman et al. 1996 | Walleye (*Sander vitreus)* | methymercury | 2 | 6 months | food | reproduction | NR | adult | whole body | LOAEL | 0.25 |
| Weis and Weis 1978 | Striped mullet (*Mugil cephalus)* | methymercury | NR | NR | aqueous | development | NR | NR | whole body | LOAEL | 0.30 |
| Hammerschmidt et al. 2002 | Fathead minnow (*Pimephales promelas)* | methymercury | 3 | juvenile | food | reproduction | NR | adult | whole body | LOAEL | 0.39 |
| Matta et al. 2001 | Mummichog (*Fundulus heteroclitus)* | methymercury | 4 | adult | food | mortality | NR | adult | whole body | LOAEL | 0.44 |
| Webber and Haines 2003 | Golden shiner *(Notemigonus crysoleucas)* | methymercury | 2 | NR | food | behavior | NR | adult | whole body | LOAEL | 0.52 |
| Snarski and Olson 1982 | Fathead minnow (*Pimephales promelas)* | mercury chloride | 5 | juvenile | aqueous | growth | NR | juvenile | whole body | LOAEL | 1.2 |
| Drevnick and Sandheinrich 2003 | Fathead minnow (*Pimephales promelas)* | methymercury | 2 | embryos | food | reproduction | NR | adult | whole body | LOAEL | 0.86 |

**Notes:**
LOAEL: lowest observed adverse effect level
mg/kg: milligrams per kilogram
NOAEL: no-observed adverse effect level
NR: not reported
TRV: toxicity reference value
ww: wet weight
Selected as the basis for tissue TRVs

**Table D-19. Summary of Data Considered for Fish Tissue Mercury Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

**References:**


Drevnick, P.E. and M.B. Sandheinrich. 2003. Effects of dietary methylmercury on reproductive endocrinology of fathead minnows. Environ. Sci. Technol. 37:4390-4396.

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**Table D-20. Summary of Data Considered for Aquatic Emergent Insect Tissue Mercury Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration/ Doses[a] | Initial Lifestage | Route of Exposure | General Effect Group | Measurement Description | Response Organism | Endpoint | Total Mercury (mg/kg ww) | Residue (wet, dry, or lipid) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NOAEL Tissue Concentrations** | | | | | | | | | | | |
| Saouter et al. 1993. | Burrowing mayfly (*Hexagenia rigida)* | mercury | 1 | nymph | Combined | growth, survival | 9-d sediment or water exposure | organism | NOAEL | 7.5 | wet |
| Rossaro et al. 1986 | Midge (*Chironomus riparius)* | mercury | 1 | larval | Water | survival | 30-d exposure | organism | NOAEL | 107 | wet |

**Notes:**
a. When wet or dry weight was not specified in study, diet doses were assumed to be wet weight.
Selected as the basis for tissue TRVs

%: percent
d: day
mg/kg: milligrams per kilogram
NOAEL: no-observed adverse effects level
PCB: polychlorinated biphenyl
TRV: toxicity reference value
ww: wet weight

**References:**
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**Table D-21. Summary of Data Considered for Aquatic Epibenthic Tissue Mercury Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration/ Doses[a] | Initial Lifestage | Route of Exposure | General Effect Group | Measurement Description | Response Organism | Endpoint | Total Mercury (mg/kg ww) | Residue (wet, dry, or lipid) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NOAEL Tissue Concentrations** | | | | | | | | | | | |
| Borgmann et al. 1993 [b] | amphipod (*Hyalella azteca)* | mercury | 5 | juvenile | water | survival, reproduction | 10-week exposure | organism | NOAEL | 10 | wet |
| **LOAEL Tissue Concentrations** | | | | | | | | | | | |
| Borgmann et al. 1993 [b] | amphipod (*Hyalella azteca)* | mercury | 5 | juvenile | water | survival | 25% survival in 10-week exposure | organism | LOAEL | 16 | wet |

**Notes:**
a. When wet or dry weight was not specified in study, diet doses were assumed to be wet weight.
b. Converted to wet weight assumed solids content of 18%.
Selected as the basis for tissue TRVs

%: percent
d: day
LOAEL: lowest-observed adverse effects level
mg/kg: milligrams per kilogram
NOAEL: no-observed adverse effects level
PCB: polychlorinated biphenyl
TRV: toxicity reference value
ww: wet weight

**References:**
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**Table D-22. Summary of Data Considered for Mollusc Tissue Mercury Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration/ Doses[a] | Initial Lifestage | Route of Exposure | General Effect Group | Measurement Description | Response Organism | Endpoint | Total Mercury (mg/kg ww) | Residue (wet, dry, or lipid) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NOAEL Tissue Concentrations** | | | | | | | | | | | |
| Tessier et al. 1996 | Eastern Elliptio (*Elliptio complanata* ) | mercury | 3 | Adult | Water | growth, survival | 60-d exposure | organism | NOAEL | 3.4 | wet |
| Dillon et al. 1977 | Clam (*Rangia cuneata)* | total mercury | 1 | Adult | Combined | growth, survival | 18% mortality after 4.5 days exposure | organism | NOAEL | 6.0 | wet |
| Tessier et al. 1996 | Banded Mystery Snail (*Viviparus georgianus* ) | mercury | 3 | Adult | Water | growth, survival | 60-d exposure | organism | NOAEL | 6.0 | wet |
| Thain 1984 | Slipper Limpet (*Crepidula fornicata)* | total mercury | 3 | Adult | Combined | reproduction | week 8 fecundity (number larvae released) | organism | NOAEL | 6.0 | wet |
| Dillon et al. 1977 | Clam (*Rangia cuneata)* | total mercury | 1 | Adult | Combined | growth, survival | 14% mortality after 4.5 days exposure | organism | NOAEL | 6.0 | wet |
| Thain 1984 | Slipper Limpet (*Crepidula fornicata)* | total mercury | 3 | Adult | Combined | growth | shell growth in 16-week exposure | organism | NOAEL | 16 | wet |
| Cunningham and Tripp 1973 | American oyster (*Crassostrea virginica)* | total mercury | 3 | Adult | Water | survival | 10% mortality in 60 days of exposure | organism | NOAEL | 28 | wet |
| Thain 1984 | Slipper Limpet (*Crepidula fornicata)* | total mercury | 3 | Adult | Combined | reproduction | time to maturity, time to spawn, spawn frequency, egg incubation time | organism | NOAEL | 28 | wet |
| Thain 1984 | Slipper Limpet (*Crepidula fornicata)* | total mercury | 3 | Adult | Combined | reproduction | <10% reduction in live weight over 16 weeks | organism | NOAEL | 28 | wet |
| **LOAEL Tissue Concentrations** | | | | | | | | | | | |
| Dillon et al. 1977 | Clam (*Rangia cuneata)* | total mercury | 1 | Adult | Combined | survival | 20% mortality after 5.5 days exposure | organism | LOAEL | 8.0 | wet |
| Thain 1984 | Slipper Limpet (*Crepidula fornicata)* | total mercury | 3 | Adult | Combined | reproduction | 25% reduction in week 8 fecundity (number larvae released) | organism | LOAEL | 12 | wet |
| Dillon et al. 1977 | Clam (*Rangia cuneata* ) | total mercury | 1 | Adult | Combined | survival | 55% mortality in 10-d exposure | organism | LOAEL | 22 | wet |
| Thain 1984 | Slipper Limpet (*Crepidula fornicata)* | total mercury | 3 | Adult | Combined | growth | 25-50% reduction in shell growth over 16 weeks; | organism | LOAEL | 28 | wet |
| Cunningham and Tripp 1973 | American oyster (*Crassostrea virginica)* | total mercury | 3 | Adult | Water | survival | 30% mortality in first 20 days of exposure | organism | LOAEL | 32 | wet |

**Table D-22. Summary of Data Considered for Mollusc Tissue Mercury Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**
a. When wet or dry weight was not specified in study, diet doses were assumed to be wet weight.
Selected as the basis for tissue TRVs

%: percent
d: day
LOAEL: lowest-observed adverse effects level
mg/kg: milligrams per kilogram
NOAEL: no-observed adverse effects level
PCB: polychlorinated biphenyl
TRV: toxicity reference value
ww: wet weight

**References:**
Cunningham, PA and MR Tripp. 1973. Accumulation and depuration of mercury in the American oyster Crassostrea virginica. Marine Biology 20: 14-19.
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**Table D-23. Summary of Data Considered for Crayfish Tissue Mercury Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration/ Doses[a] | Initial Lifestage | Route of Exposure | General Effect Group | Measurement Description | Response Organism | Endpoint | Total Mercury (mg/kg ww) | Residue (wet, dry, or lipid) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NOAEL Tissue Concentrations** | | | | | | | | | | | |
| Biesinger et al. 1982 [b] | *Daphnia magna* | methylmercury | 5 | juvenile | water | reproduction | young production in 3 week flow-through exposure | organism | NOAEL | 0.092 | wet |
| Biesinger et al. 1982 [b] | *Daphnia magna* | mercury | 5 | juvenile | water | reproduction | young production in 3 week flow-through exposure | organism | NOAEL | 1.5 | wet |
| Barthalmus 1977 | Grass Shrimp (*Palaemonetes pugio)* | mercury | 1 | adult | water | survival | 5-d exposure | organism | NOAEL | 1.7 | wet |
| Weis 1977 | Fiddler crab (*Uca pugilator)* | mercury | 1 | juvenile | water | survival | 2-week exposure | organism | NOAEL | 2.0 | wet |
| Callahan and Weis 1983 | Fiddler crab (*Uca pugilator)* | mercury | 1 | adult | water | survival | 2-week exposure | organism | NOAEL | 18 | wet |
| **LOAEL Tissue Concentrations** | | | | | | | | | | | |
| Biesinger et al. 1982 [b] | *Daphnia magna* | methylmercury | 5 | juvenile | water | reproduction | 35% decrease in young production in 3 week flow-through exposure | organism | LOAEL | 1.6 | wet |
| Biesinger et al. 1982 [b] | *Daphnia magna* | mercury | 5 | juvenile | water | reproduction | 33% decrease in young production in 3 week flow-through exposure | organism | LOAEL | 2.3 | wet |

**Notes:**
a. When wet or dry weight was not specified in study, diet doses were assumed to be wet weight.
b. Converted to wet weight based on 10% solids content (Biesinger et al. 1982).
Selected as the basis for tissue TRVs

%: percent
d: day
LOAEL: lowest-observed adverse effects level
mg/kg: milligrams per kilogram
NOAEL: no-observed adverse effects level
PCB: polychlorinated biphenyl
TRV: toxicity reference value
ww: wet weight

**References:**

Barthalmus, GT 1977. Behavioral effects of mercury on grass shrimp. Marine Pollutant Bull. 8:87-90.
Biesinger, KE, LE Anderson, and J.G. Eaton. 1982. Chronic effects of inorganic and organic mercury on *Daphnia magna* : Toxicity, accumulation, and loss. Arch. Environ. Contam. Toxicol. 11:769-774
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**Table D-24. Summary of Data Considered for Earthworm Tissue Mercury Critical Tissue Concentration Development**
**Anniston PCB Site, Anniston, Alabama**

| Reference | Test Organism | Chemical Form | Number of Concentration/ Doses[a] | Initial Lifestage | Route of Exposure | General Effect Group | Measurement Description | Response Organism | Endpoint | Total Mercury (mg/kg ww) | Residue (wet, dry, or lipid) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NOAEL Tissue Concentrations** | | | | | | | | | | | |
| Burton et al. 2006 | Earthworm (*Eisenia fetida*) | methylmercury | 4 | Adult | Combined | growth, survival | 28-d soil uptake exposure | organism | NOAEL | 0.78 | wet |
| Burton et al. 2006 | Earthworm (*Eisenia fetida*) | total mercury | 4 | Adult | Combined | growth, survival | 28-d soil uptake exposure | organism | NOAEL | 15 | wet |

**Notes:**
a. When wet or dry weight was not specified in study, diet doses were assumed to be wet weight.
Selected as the basis for tissue TRVs
%: percent
d: day
mg/kg: milligrams per kilogram
NOAEL: no-observed adverse effects level
PCB: polychlorinated biphenyl
TRV: toxicity reference value
ww: wet weight

**References:**
Burton, DT, SD Turley, DJ Fsiher, DJ Green, and TR Shedd. 2006. Bioaccumulation of total mercury and monomethylmercury in the earthworm *Eisenia fetida*. Water, Air, and Soil Pollution 170: 37-5

# APPENDIX E

## Data Summary Tables and Risk Estimates Calculated for Operable Unit 4

# APPENDIX E-1

## Datasets Used in the OU-4 BERA (provided electronically as Excel file)

**Appendix E-1 Table of Contents**

**Datasets Used in the OU-4 BERA**


E-1-1 Soil Dataset
E-1-2 Sediment Dataset
E-1-3 Surface Water Dataset
E-1-4 Tissue - Phase 2 Ecological Dataset
E-1-5 Sediment Toxicity - Hyalella azteca Dataset
E-1-6 Sediment Toxicity - Chironomus dilutus
E-1-7 Sediment Toxicity - Sediment
E-1-8 Sediment Toxicity - Lumbriculus variegatus
E-1-9 Calculated TEQ Dataset
E-1-10 Data Dictionary
E-1-11 Data Qualifiers
E-1-12 Acronyms and Abbreviations

# APPENDIX E-2

## Summary Statistics for Datasets Used in the OU-4 BERA

**Appendix E-2 Table of Contents**

**Summary Statistics for Datasets Used in the BERA**


E-2-1 Summary Statistics by Reach - Floodplain and Riparian Soil
E-2-2 Summary Statistics by Assessment Area - Floodplain and Riparian Soil
E-2-3 Summary Statistics by Assessment Area - Terrestrial Tissue
E-2-4 Summary Statistics - Sitewide Soil and Reference Soil
E-2-5 Summary Statistics - Sitewide Terrestrial Tissue and Reference Tissue
E-2-6 Summary Statistics by Reach - Sediment
E-2-7 Summary Statistics by Assessment Area -Sediment
E-2-8 Summary Statistics by Assessment Area -Surface Water
E-2-9 Summary Statistics by Assessment Area - Aquatic Tissue
E-2-10 Summary Statistics - Sitewide Sediment and Reference Sediment
E-2-11 Summary Statistics - Sitewide Surface Water and Reference Surface Water
E-2-12 Summary Statistics - Sitewide Aquatic Tissue and Reference Tissue

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Reach C1 East** | | | | | | | | | | | | | | | | | |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 75 | / | 94 | 80 | 0.037 | 59 | 0.07 | 0.093 | 11.03 | 7.02 | 166.6 | 12.91 | 11.38 | 95% KM Approximate Gamma UCL | 11.38 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 94 | 0 | N/A | N/A | 0.035 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 94 | 0 | N/A | N/A | 0.07 | 4.2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 94 | 0 | N/A | N/A | 0.035 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 0 | / | 94 | 0 | N/A | N/A | 0.035 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1248 | mg/kg | 62 | / | 94 | 66 | 0.038 | 16 | 0.035 | 2.1 | 3.102 | 1.65 | 12.87 | 3.587 | 2.758 | 95% KM Approximate Gamma UCL | 2.758 | UCL |
| Aroclor-1254 | mg/kg | 73 | / | 94 | 78 | 0.037 | 25 | 0.035 | 0.046 | 4.838 | 3.1 | 30.39 | 5.513 | 4.859 | 95% KM Approximate Gamma UCL | 4.859 | UCL |
| Aroclor-1260 | mg/kg | 74 | / | 94 | 79 | 0.04 | 16 | 0.035 | 0.046 | 3.064 | 1.9 | 11.6 | 3.406 | 3.095 | 95% KM Approximate Gamma UCL | 3.095 | UCL |
| Aroclor-1268 | mg/kg | 61 | / | 94 | 65 | 0.048 | 3.7 | 0.035 | 2.1 | 0.925 | 0.51 | 0.777 | 0.881 | 0.788 | 95% KM Approximate Gamma UCL | 0.788 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TOC by lloyd kahn | mg/kg | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Reach C1 West** | | | | | | | | | | | | | | | | | |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 6 | / | 6 | 100 | 0.115 | 206.5 | N/A | N/A | 52.9 | 15.6 | 6447 | 80.3 | -- | -- | 206.5 | Maximum Detect |
| Aroclor-1016 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.041 | 8.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.083 | 17 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.041 | 8.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.041 | 8.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1248 | mg/kg | 4 | / | 6 | 67 | 0.77 | 12 | 0.041 | 8.5 | 4.218 | 2.05 | 27.56 | 5.25 | -- | -- | 12 | Maximum Detect |
| Aroclor-1254 | mg/kg | 6 | / | 6 | 100 | 0.056 | 120 | N/A | N/A | 28.76 | 7.3 | 2188 | 46.78 | -- | -- | 120 | Maximum Detect |
| Aroclor-1260 | mg/kg | 6 | / | 6 | 100 | 0.059 | 69.5 | N/A | N/A | 17.11 | 5 | 722.1 | 26.87 | -- | -- | 69.5 | Maximum Detect |
| Aroclor-1268 | mg/kg | 5 | / | 6 | 83 | 0.32 | 17 | 0.041 | 0.041 | 5.064 | 1.6 | 48.63 | 6.973 | -- | -- | 17 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TOC by lloyd kahn | mg/kg | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Reach C2 Central** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 3 | / | 3 | 100 | 9.75 | 13.4 | N/A | N/A | 11.12 | 10.2 | 3.961 | 1.99 | -- | -- | 13.4 | Maximum Detect |
| Lead | mg/kg | 3 | / | 3 | 100 | 18.95 | 44.8 | N/A | N/A | 32.82 | 34.7 | 169.7 | 13.03 | -- | -- | 44.8 | Maximum Detect |
| Mercury | mg/kg | 34 | / | 34 | 100 | 0.026 | 0.7 | N/A | N/A | 0.0763 | 0.051 | 0.0127 | 0.113 | 0.161 | 95% Chebyshev (Mean, Sd) UCL | 0.161 | UCL |
| Vanadium | mg/kg | 3 | / | 3 | 100 | 14.45 | 19.4 | N/A | N/A | 16.22 | 14.8 | 7.631 | 2.762 | -- | -- | 19.4 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 4 | / | 35 | 11 | 0.049 | 1.76 | 0.041 | 0.09 | 0.592 | 0.28 | 0.647 | 0.805 | -- | -- | 1.76 | Maximum Detect |
| Aroclor-1016 | mg/kg | 0 | / | 35 | 0 | N/A | N/A | 0.039 | 0.14 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 35 | 0 | N/A | N/A | 0.041 | 0.14 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 35 | 0 | N/A | N/A | 0.039 | 0.14 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 0 | / | 35 | 0 | N/A | N/A | 0.039 | 0.14 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1248 | mg/kg | 0 | / | 35 | 0 | N/A | N/A | 0.039 | 0.14 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/kg | 2 | / | 35 | 6 | 0.099 | 0.71 | 0.039 | 0.05 | 0.405 | 0.405 | 0.187 | 0.432 | -- | -- | 0.71 | Maximum Detect |
| Aroclor-1260 | mg/kg | 4 | / | 35 | 11 | 0.049 | 0.9 | 0.039 | 0.05 | 0.352 | 0.23 | 0.158 | 0.397 | -- | -- | 0.9 | Maximum Detect |
| Aroclor-1262 | mg/kg | 0 | / | 25 | 0 | N/A | N/A | 0.041 | 0.14 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 1 | / | 34 | 3 | 0.15 | 0.15 | 0.039 | 0.093 | 0.15 | 0.15 | N/A | N/A | -- | -- | 0.15 | Maximum Detect |
| BZ#105 | mg/kg | 1 | / | 1 | 100 | 0.049 | 0.049 | N/A | N/A | 0.049 | 0.049 | N/A | N/A | -- | -- | 0.049 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.0056 | 0.0056 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 1 | / | 1 | 100 | 0.081 | 0.081 | N/A | N/A | 0.081 | 0.081 | N/A | N/A | -- | -- | 0.081 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.0056 | 0.0056 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.0056 | 0.0056 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| BZ#153 | mg/kg | 1 | / | 1 | 100 | 0.11 | 0.11 | N/A | N/A | 0.11 | 0.11 | N/A | N/A | -- | -- | 0.11 | Maximum Detect |
| BZ#156 | mg/kg | 1 | / | 1 | 100 | 0.016 | 0.016 | N/A | N/A | 0.016 | 0.016 | N/A | N/A | -- | -- | 0.016 | Maximum Detect |
| BZ#157 | mg/kg | 1 | / | 1 | 100 | 0.0057 | 0.0057 | N/A | N/A | 0.0057 | 0.0057 | N/A | N/A | -- | -- | 0.0057 | Maximum Detect |
| BZ#167 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.011 | 0.011 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.0056 | 0.0056 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.0056 | 0.0056 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.0056 | 0.0056 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.011 | 0.011 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 1 | / | 1 | 100 | 140 | 140 | N/A | N/A | 140 | 140 | N/A | N/A | -- | -- | 140 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 0 | / | 1 | 0 | N/A | N/A | 37.8 | 37.8 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 1 | / | 1 | 100 | 8 | 8 | N/A | N/A | 8 | 8 | N/A | N/A | -- | -- | 8 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 1 | / | 1 | 100 | 1.3 | 1.3 | N/A | N/A | 1.3 | 1.3 | N/A | N/A | -- | -- | 1.3 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 1 | / | 1 | 100 | 19.9 | 19.9 | N/A | N/A | 19.9 | 19.9 | N/A | N/A | -- | -- | 19.9 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 1 | / | 1 | 100 | 4.5 | 4.5 | N/A | N/A | 4.5 | 4.5 | N/A | N/A | -- | -- | 4.5 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 1 | / | 1 | 100 | 52.7 | 52.7 | N/A | N/A | 52.7 | 52.7 | N/A | N/A | -- | -- | 52.7 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 1 | / | 1 | 100 | 3.9 | 3.9 | N/A | N/A | 3.9 | 3.9 | N/A | N/A | -- | -- | 3.9 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 0 | / | 1 | 0 | N/A | N/A | 1.02 | 1.02 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 1 | 0 | N/A | N/A | 0.977 | 0.977 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 1 | / | 1 | 100 | 3.4 | 3.4 | N/A | N/A | 3.4 | 3.4 | N/A | N/A | -- | -- | 3.4 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 1 | / | 1 | 100 | 3.6 | 3.6 | N/A | N/A | 3.6 | 3.6 | N/A | N/A | -- | -- | 3.6 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 1 | / | 1 | 100 | 6.6 | 6.6 | N/A | N/A | 6.6 | 6.6 | N/A | N/A | -- | -- | 6.6 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 0 | / | 1 | 0 | N/A | N/A | 0.455 | 0.455 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 1 | / | 1 | 100 | 81 | 81 | N/A | N/A | 81 | 81 | N/A | N/A | -- | -- | 81 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 1 | / | 1 | 100 | 29 | 29 | N/A | N/A | 29 | 29 | N/A | N/A | -- | -- | 29 | Maximum Detect |
| TOC by lloyd kahn | mg/kg | 35 | / | 35 | 100 | 7150 | 32100 | N/A | N/A | 17785 | 15700 | 56673561 | 7528 | 20269 | 95% Adjusted Gamma UCL | 20269 | UCL |
| **Reach C2 North** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 2 | / | 2 | 100 | 23.4 | 34.4 | N/A | N/A | 28.9 | 28.9 | 60.5 | 7.778 | -- | -- | 34.4 | Maximum Detect |
| Lead | mg/kg | 2 | / | 2 | 100 | 11.3 | 30 | N/A | N/A | 20.65 | 20.65 | 174.8 | 13.22 | -- | -- | 30 | Maximum Detect |
| Mercury | mg/kg | 15 | / | 16 | 94 | 0.026 | 2.4 | 0.0078 | 0.0078 | 0.423 | 0.063 | 0.45 | 0.671 | 1.424 | 97.5% KM (Chebyshev) UCL | 1.424 | UCL |
| Vanadium | mg/kg | 2 | / | 2 | 100 | 20.6 | 22.9 | N/A | N/A | 21.75 | 21.75 | 2.645 | 1.626 | -- | -- | 22.9 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 29 | / | 38 | 76 | 0.047 | 32 | 0.037 | 0.09 | 3.561 | 0.955 | 43 | 6.557 | 5.547 | 95% Gamma Adjusted KM-UCL | 5.547 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 38 | 0 | N/A | N/A | 0.037 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 38 | 0 | N/A | N/A | 0.037 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 38 | 0 | N/A | N/A | 0.037 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 1 | / | 38 | 3 | 0.8 | 0.8 | 0.037 | 2.1 | 0.8 | 0.8 | N/A | N/A | -- | -- | 0.8 | Maximum Detect |
| Aroclor-1248 | mg/kg | 11 | / | 38 | 29 | 0.088 | 1.6 | 0.037 | 2.1 | 0.543 | 0.33 | 0.257 | 0.507 | 0.278 | 95% GROS Adjusted Gamma UCL | 0.278 | UCL |
| Aroclor-1254 | mg/kg | 28 | / | 38 | 74 | 0.045 | 22 | 0.037 | 0.05 | 2.127 | 0.445 | 19.28 | 4.391 | 3.559 | 95% Gamma Adjusted KM-UCL | 3.559 | UCL |
| Aroclor-1260 | mg/kg | 29 | / | 38 | 76 | 0.045 | 10 | 0.037 | 0.05 | 1.201 | 0.25 | 4.379 | 2.093 | 2.266 | 95% KM (Chebyshev) UCL | 2.266 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.037 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 12 | / | 38 | 32 | 0.054 | 0.47 | 0.037 | 2.1 | 0.175 | 0.155 | 0.0179 | 0.134 | 0.0931 | 95% GROS Adjusted Gamma UCL | 0.0931 | UCL |
| BZ#105 | mg/kg | 2 | / | 2 | 100 | 0.033 | 0.1 | N/A | N/A | 0.0665 | 0.0665 | 0.00224 | 0.0474 | -- | -- | 0.1 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0061 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 2 | / | 2 | 100 | 0.063 | 0.2 | N/A | N/A | 0.132 | 0.132 | 0.00938 | 0.0969 | -- | -- | 0.2 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0061 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0061 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 2 | / | 2 | 100 | 0.088 | 0.31 | N/A | N/A | 0.199 | 0.199 | 0.0246 | 0.157 | -- | -- | 0.31 | Maximum Detect |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| BZ#156 | mg/kg | 2 | / | 2 | 100 | 0.011 | 0.035 | N/A | N/A | 0.023 | 0.023 | 0.000288 | 0.017 | -- | -- | 0.035 | Maximum Detect |
| BZ#157 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0061 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.012 | 0.034 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0061 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0061 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0061 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.012 | 0.034 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 2 | / | 2 | 100 | 71.8 | 135 | N/A | N/A | 103.4 | 103.4 | 1997 | 44.69 | -- | -- | 135 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 1 | / | 2 | 50 | 38.9 | 38.9 | 22.5 | 22.5 | 38.9 | 38.9 | N/A | N/A | -- | -- | 38.9 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 1 | / | 2 | 50 | 10.2 | 10.2 | 3.66 | 3.66 | 10.2 | 10.2 | N/A | N/A | -- | -- | 10.2 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 2 | / | 2 | 100 | 0.8 | 0.9 | N/A | N/A | 0.85 | 0.85 | 0.005 | 0.0707 | -- | -- | 0.9 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 2 | / | 2 | 100 | 10.7 | 43 | N/A | N/A | 26.85 | 26.85 | 521.6 | 22.84 | -- | -- | 43 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 2 | / | 2 | 100 | 1.9 | 4.2 | N/A | N/A | 3.05 | 3.05 | 2.645 | 1.626 | -- | -- | 4.2 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 1 | / | 2 | 50 | 37.1 | 37.1 | 5.59 | 5.59 | 37.1 | 37.1 | N/A | N/A | -- | -- | 37.1 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 2 | / | 2 | 100 | 2.5 | 2.6 | N/A | N/A | 2.55 | 2.55 | 0.005 | 0.0707 | -- | -- | 2.6 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 0 | / | 2 | 0 | N/A | N/A | 0.494 | 1.07 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 2 | 0 | N/A | N/A | 0.705 | 1.11 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 0 | / | 2 | 0 | N/A | N/A | 2.7 | 45.7 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,4,6,7,8-hxcdf | pg/g | 2 | / | 2 | 100 | 2 | 5.4 | N/A | N/A | 3.7 | 3.7 | 5.78 | 2.404 | -- | -- | 5.4 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 2 | / | 2 | 100 | 5.2 | 17.3 | N/A | N/A | 11.25 | 11.25 | 73.21 | 8.556 | -- | -- | 17.3 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 0 | / | 2 | 0 | N/A | N/A | 0.308 | 0.321 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 2 | / | 2 | 100 | 11.8 | 38.6 | N/A | N/A | 25.2 | 25.2 | 359.1 | 18.95 | -- | -- | 38.6 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 2 | / | 2 | 100 | 15 | 21 | N/A | N/A | 18 | 18 | 18 | 4.243 | -- | -- | 21 | Maximum Detect |
| TOC by lloyd kahn | mg/kg | 16 | / | 16 | 100 | 2805 | 32200 | N/A | N/A | 14032 | 12600 | 77009686 | 8776 | 17878 | 95% Student's-t UCL | 17878 | UCL |
| **Reach C2 South** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 2 | / | 2 | 100 | 10.8 | 11.2 | N/A | N/A | 11 | 11 | 0.08 | 0.283 | -- | -- | 11.2 | Maximum Detect |
| Lead | mg/kg | 2 | / | 2 | 100 | 17.5 | 22.8 | N/A | N/A | 20.15 | 20.15 | 14.05 | 3.748 | -- | -- | 22.8 | Maximum Detect |
| Mercury | mg/kg | 22 | / | 22 | 100 | 0.014 | 0.21 | N/A | N/A | 0.0544 | 0.0415 | 0.00188 | 0.0433 | 0.0706 | 95% Adjusted Gamma UCL | 0.0706 | UCL |
| Vanadium | mg/kg | 2 | / | 2 | 100 | 17.3 | 22.8 | N/A | N/A | 20.05 | 20.05 | 15.13 | 3.889 | -- | -- | 22.8 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 3 | / | 22 | 14 | 0.183 | 0.375 | 0.04 | 0.087 | 0.257 | 0.214 | 0.0106 | 0.103 | -- | -- | 0.375 | Maximum Detect |
| Aroclor-1016 | mg/kg | 0 | / | 22 | 0 | N/A | N/A | 0.036 | 0.047 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 22 | 0 | N/A | N/A | 0.04 | 0.087 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 22 | 0 | N/A | N/A | 0.036 | 0.047 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 0 | / | 22 | 0 | N/A | N/A | 0.036 | 0.047 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1248 | mg/kg | 0 | / | 22 | 0 | N/A | N/A | 0.036 | 0.047 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/kg | 3 | / | 22 | 14 | 0.053 | 0.099 | 0.036 | 0.047 | 0.071 | 0.061 | 0.000604 | 0.0246 | -- | -- | 0.099 | Maximum Detect |
| Aroclor-1260 | mg/kg | 3 | / | 22 | 14 | 0.115 | 0.25 | 0.036 | 0.047 | 0.165 | 0.13 | 0.00548 | 0.074 | -- | -- | 0.25 | Maximum Detect |
| Aroclor-1262 | mg/kg | 0 | / | 16 | 0 | N/A | N/A | 0.04 | 0.047 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 1 | / | 22 | 5 | 0.064 | 0.064 | 0.036 | 0.047 | 0.064 | 0.064 | N/A | N/A | -- | -- | 0.064 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TOC by lloyd kahn | mg/kg | 22 | / | 22 | 100 | 4190 | 38700 | N/A | N/A | 15618 | 13350 | 62773968 | 7923 | 19034 | 95% Adjusted Gamma UCL | 19034 | UCL |
| **Reach C2 Riparian** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 3 | / | 3 | 100 | 9.75 | 13.4 | N/A | N/A | 11.45 | 11.2 | 3.378 | 1.838 | -- | -- | 13.4 | Maximum Detect |
| Lead | mg/kg | 3 | / | 3 | 100 | 17.5 | 44.8 | N/A | N/A | 27.08 | 18.95 | 235.9 | 15.36 | -- | -- | 44.8 | Maximum Detect |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Mercury | mg/kg | 16 | / | 16 | 100 | 0.026 | 1.1 | N/A | N/A | 0.165 | 0.0605 | 0.0885 | 0.297 | 0.489 | 95% Chebyshev (Mean, Sd) UCL | 0.489 | UCL |
| Vanadium | mg/kg | 3 | / | 3 | 100 | 14.45 | 22.8 | N/A | N/A | 18.88 | 19.4 | 17.63 | 4.199 | -- | -- | 22.8 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 4 | / | 17 | 24 | 0.07 | 32 | 0.042 | 0.09 | 8.58 | 1.125 | 244.3 | 15.63 | -- | -- | 32 | Maximum Detect |
| Aroclor-1016 | mg/kg | 0 | / | 17 | 0 | N/A | N/A | 0.041 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 17 | 0 | N/A | N/A | 0.042 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 17 | 0 | N/A | N/A | 0.041 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 0 | / | 17 | 0 | N/A | N/A | 0.041 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1248 | mg/kg | 0 | / | 17 | 0 | N/A | N/A | 0.041 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/kg | 3 | / | 17 | 18 | 0.099 | 22 | 0.041 | 0.05 | 7.603 | 0.71 | 155.5 | 12.47 | -- | -- | 22 | Maximum Detect |
| Aroclor-1260 | mg/kg | 4 | / | 17 | 24 | 0.07 | 10 | 0.041 | 0.05 | 2.84 | 0.645 | 22.9 | 4.786 | -- | -- | 10 | Maximum Detect |
| Aroclor-1262 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.042 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 1 | / | 16 | 6 | 0.15 | 0.15 | 0.041 | 2.1 | 0.15 | 0.15 | N/A | N/A | -- | -- | 0.15 | Maximum Detect |
| BZ#105 | mg/kg | 1 | / | 1 | 100 | 0.049 | 0.049 | N/A | N/A | 0.049 | 0.049 | N/A | N/A | -- | -- | 0.049 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.0056 | 0.0056 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 1 | / | 1 | 100 | 0.081 | 0.081 | N/A | N/A | 0.081 | 0.081 | N/A | N/A | -- | -- | 0.081 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.0056 | 0.0056 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.0056 | 0.0056 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 1 | / | 1 | 100 | 0.11 | 0.11 | N/A | N/A | 0.11 | 0.11 | N/A | N/A | -- | -- | 0.11 | Maximum Detect |
| BZ#156 | mg/kg | 1 | / | 1 | 100 | 0.016 | 0.016 | N/A | N/A | 0.016 | 0.016 | N/A | N/A | -- | -- | 0.016 | Maximum Detect |
| BZ#157 | mg/kg | 1 | / | 1 | 100 | 0.0057 | 0.0057 | N/A | N/A | 0.0057 | 0.0057 | N/A | N/A | -- | -- | 0.0057 | Maximum Detect |
| BZ#167 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.011 | 0.011 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.0056 | 0.0056 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.0056 | 0.0056 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.0056 | 0.0056 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 1 | 0 | N/A | N/A | 0.011 | 0.011 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 1 | / | 1 | 100 | 140 | 140 | N/A | N/A | 140 | 140 | N/A | N/A | -- | -- | 140 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 0 | / | 1 | 0 | N/A | N/A | 37.8 | 37.8 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 1 | / | 1 | 100 | 8 | 8 | N/A | N/A | 8 | 8 | N/A | N/A | -- | -- | 8 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 1 | / | 1 | 100 | 1.3 | 1.3 | N/A | N/A | 1.3 | 1.3 | N/A | N/A | -- | -- | 1.3 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 1 | / | 1 | 100 | 19.9 | 19.9 | N/A | N/A | 19.9 | 19.9 | N/A | N/A | -- | -- | 19.9 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 1 | / | 1 | 100 | 4.5 | 4.5 | N/A | N/A | 4.5 | 4.5 | N/A | N/A | -- | -- | 4.5 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 1 | / | 1 | 100 | 52.7 | 52.7 | N/A | N/A | 52.7 | 52.7 | N/A | N/A | -- | -- | 52.7 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 1 | / | 1 | 100 | 3.9 | 3.9 | N/A | N/A | 3.9 | 3.9 | N/A | N/A | -- | -- | 3.9 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 0 | / | 1 | 0 | N/A | N/A | 1.02 | 1.02 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 1 | 0 | N/A | N/A | 0.977 | 0.977 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 1 | / | 1 | 100 | 3.4 | 3.4 | N/A | N/A | 3.4 | 3.4 | N/A | N/A | -- | -- | 3.4 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 1 | / | 1 | 100 | 3.6 | 3.6 | N/A | N/A | 3.6 | 3.6 | N/A | N/A | -- | -- | 3.6 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 1 | / | 1 | 100 | 6.6 | 6.6 | N/A | N/A | 6.6 | 6.6 | N/A | N/A | -- | -- | 6.6 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 0 | / | 1 | 0 | N/A | N/A | 0.455 | 0.455 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 1 | / | 1 | 100 | 81 | 81 | N/A | N/A | 81 | 81 | N/A | N/A | -- | -- | 81 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 1 | / | 1 | 100 | 29 | 29 | N/A | N/A | 29 | 29 | N/A | N/A | -- | -- | 29 | Maximum Detect |
| TOC by lloyd kahn | mg/kg | 17 | / | 17 | 100 | 5750 | 31500 | N/A | N/A | 18880 | 17000 | 76424488 | 8742 | 22582 | 95% Student's-t UCL | 22582 | UCL |
| **Reach C3 North** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 7 | / | 7 | 100 | 9.2 | 17.9 | N/A | N/A | 12.61 | 10 | 14.83 | 3.851 | -- | -- | 17.9 | Maximum Detect |
| Lead | mg/kg | 7 | / | 7 | 100 | 21.7 | 43.1 | N/A | N/A | 32.1 | 32.8 | 75.19 | 8.671 | -- | -- | 43.1 | Maximum Detect |
| Mercury | mg/kg | 77 | / | 77 | 100 | 0.033 | 16.5 | N/A | N/A | 2.564 | 2 | 7.745 | 2.783 | 3.164 | 95% Approximate Gamma UCL | 3.164 | UCL |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Vanadium | mg/kg | 7 | / | 7 | 100 | 11.4 | 19.6 | N/A | N/A | 16.63 | 17.8 | 7.499 | 2.738 | -- | -- | 19.6 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 78 | / | 82 | 95 | 0.047 | 75 | 0 | 0.04 | 11.06 | 6.62 | 188.1 | 13.72 | 13.55 | 95% KM Approximate Gamma UCL | 13.55 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 78 | 0 | N/A | N/A | 0.037 | 4.2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 78 | 0 | N/A | N/A | 0.037 | 4.2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 1 | / | 78 | 1 | 0.48 | 0.48 | 0.037 | 4.2 | 0.48 | 0.48 | N/A | N/A | -- | -- | 0.48 | Maximum Detect |
| Aroclor-1242 | mg/kg | 14 | / | 78 | 18 | 0.25 | 3.2 | 0.037 | 4.2 | 1.303 | 0.935 | 0.991 | 0.995 | 0.419 | 95% KM (t) UCL | 0.419 | UCL |
| Aroclor-1248 | mg/kg | 6 | / | 78 | 8 | 0.34 | 5.2 | 0.037 | 4.2 | 2.24 | 1.75 | 3.752 | 1.937 | 0.379 | 95% KM (t) UCL | 0.379 | UCL |
| Aroclor-1254 | mg/kg | 71 | / | 78 | 91 | 0.038 | 43 | 0.038 | 0.041 | 5.961 | 3.2 | 60.07 | 7.75 | 7.203 | 95% KM Approximate Gamma UCL | 7.203 | UCL |
| Aroclor-1260 | mg/kg | 75 | / | 78 | 96 | 0.042 | 32 | 0.039 | 0.04 | 4.646 | 3 | 31.39 | 5.603 | 5.74 | 95% KM Approximate Gamma UCL | 5.74 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 73 | 0 | N/A | N/A | 0.037 | 4.2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 53 | / | 77 | 69 | 0.046 | 2.4 | 0.037 | 4.2 | 0.675 | 0.53 | 0.331 | 0.576 | 0.64 | 95% GROS Approximate Gamma UCL | 0.64 | UCL |
| BZ#105 | mg/kg | 12 | / | 12 | 100 | 0.047 | 0.14 | N/A | N/A | 0.0749 | 0.0695 | 0.00075899 | 0.0275 | 0.0892 | 95% Student's-t UCL | 0.0892 | UCL |
| BZ#114 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0067 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 12 | / | 12 | 100 | 0.089 | 0.28 | N/A | N/A | 0.143 | 0.13 | 0.00334 | 0.0578 | 0.173 | 95% Student's-t UCL | 0.173 | UCL |
| BZ#123 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0067 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 3 | / | 12 | 25 | 0.017 | 0.028 | 0.0067 | 0.016 | 0.0217 | 0.02 | 3.2333E-05 | 0.00569 | -- | -- | 0.028 | Maximum Detect |
| BZ#153 | mg/kg | 12 | / | 12 | 100 | 0.13 | 0.42 | N/A | N/A | 0.214 | 0.18 | 0.00694 | 0.0833 | 0.257 | 95% Student's-t UCL | 0.257 | UCL |
| BZ#156 | mg/kg | 12 | / | 12 | 100 | 0.016 | 0.048 | N/A | N/A | 0.0257 | 0.0255 | 8.0061E-05 | 0.00895 | 0.0303 | 95% Student's-t UCL | 0.0303 | UCL |
| BZ#157 | mg/kg | 5 | / | 12 | 42 | 0.0082 | 0.017 | 0.007 | 0.016 | 0.0105 | 0.0089 | 1.3488E-05 | 0.00367 | 0.0108 | 95% KM Adjusted Gamma UCL | 0.0108 | UCL |
| BZ#167 | mg/kg | 5 | / | 12 | 42 | 0.007 | 0.014 | 0.014 | 0.033 | 0.0104 | 0.01 | 7.448E-06 | 0.00273 | 0.0121 | 95% KM (t) UCL | 0.0121 | UCL |
| BZ#169 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0049 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0049 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0067 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.013 | 0.033 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 12 | / | 12 | 100 | 27.9 | 135 | N/A | N/A | 95.38 | 105 | 883.4 | 29.72 | 110.8 | 95% Student's-t UCL | 110.8 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 10 | / | 12 | 83 | 23.1 | 49.4 | 27.9 | 37.7 | 36.43 | 35.2 | 73.96 | 8.6 | 39.57 | 95% KM (t) UCL | 39.57 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 12 | / | 12 | 100 | 4.83 | 13.7 | N/A | N/A | 9.006 | 8.54 | 9.45 | 3.074 | 10.6 | 95% Student's-t UCL | 10.6 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 12 | / | 12 | 100 | 0.489 | 1.32 | N/A | N/A | 1.045 | 1.13 | 0.0531 | 0.23 | 1.16 | 95% Modified-t UCL | 1.16 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 12 | / | 12 | 100 | 16.3 | 57.5 | N/A | N/A | 32.47 | 32 | 113.7 | 10.66 | 38 | 95% Student's-t UCL | 38 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 11 | / | 12 | 92 | 1.31 | 3.52 | 2.04 | 2.04 | 2.493 | 2.44 | 0.402 | 0.634 | 2.763 | 95% KM (t) UCL | 2.763 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 12 | / | 12 | 100 | 4.35 | 12.9 | N/A | N/A | 7.876 | 7.515 | 6.024 | 2.454 | 9.148 | 95% Student's-t UCL | 9.148 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 12 | / | 12 | 100 | 1.1 | 3.42 | N/A | N/A | 2.483 | 2.415 | 0.427 | 0.654 | 2.822 | 95% Student's-t UCL | 2.822 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 11 | / | 12 | 92 | 0.425 | 1.08 | 0.46 | 0.46 | 0.82 | 0.825 | 0.0411 | 0.203 | 0.904 | 95% KM (t) UCL | 0.904 | UCL |
| 1,2,3,7,8-pecdd | pg/g | 10 | / | 12 | 83 | 0.323 | 0.61 | 0.481 | 0.618 | 0.505 | 0.504 | 0.00802 | 0.0896 | 0.548 | 95% KM (t) UCL | 0.548 | UCL |
| 1,2,3,7,8-pecdf | pg/g | 12 | / | 12 | 100 | 4.12 | 12.5 | N/A | N/A | 7.694 | 7.095 | 5.239 | 2.289 | 8.881 | 95% Student's-t UCL | 8.881 | UCL |
| 2,3,4,6,7,8-hxcdf | pg/g | 12 | / | 12 | 100 | 3.1 | 8.24 | N/A | N/A | 5.087 | 5.11 | 1.932 | 1.39 | 5.807 | 95% Student's-t UCL | 5.807 | UCL |
| 2,3,4,7,8-pecdf | pg/g | 12 | / | 12 | 100 | 8.47 | 24.4 | N/A | N/A | 14.87 | 15.05 | 21.05 | 4.587 | 17.24 | 95% Student's-t UCL | 17.24 | UCL |
| 2,3,7,8-tcdd | pg/g | 2 | / | 12 | 17 | 0.137 | 0.199 | 0.0722 | 0.195 | 0.168 | 0.168 | 0.00192 | 0.0438 | -- | -- | 0.199 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 12 | / | 12 | 100 | 10.8 | 30.9 | N/A | N/A | 20.22 | 22.95 | 46.43 | 6.814 | 23.75 | 95% Student's-t UCL | 23.75 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 39 | / | 39 | 100 | 7.255 | 29 | N/A | N/A | 16.43 | 15.4 | 27.52 | 5.246 | 17.84 | 95% Student's-t UCL | 17.84 | UCL |
| TOC by lloyd kahn | mg/kg | 78 | / | 78 | 100 | 4920 | 71300 | N/A | N/A | 19173 | 16950 | 133200000 | 11543 | 21349 | 95% Student's-t UCL | 21349 | UCL |
| **Reach C3 South** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 6 | / | 6 | 100 | 10.6 | 55.2 | N/A | N/A | 24.52 | 16.2 | 342 | 18.49 | -- | -- | 55.2 | Maximum Detect |
| Lead | mg/kg | 6 | / | 6 | 100 | 16.7 | 106 | N/A | N/A | 53.4 | 54.15 | 1141 | 33.79 | -- | -- | 106 | Maximum Detect |
| Mercury | mg/kg | 62 | / | 63 | 98 | 0.012 | 13 | 0.0083 | 0.0083 | 1.787 | 0.25 | 8.559 | 2.926 | 3.357 | 95% KM (Chebyshev) UCL | 3.357 | UCL |
| Vanadium | mg/kg | 6 | / | 6 | 100 | 11.4 | 24.8 | N/A | N/A | 17.98 | 19.1 | 23.36 | 4.833 | -- | -- | 24.8 | Maximum Detect |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 45 | / | 70 | 64 | 0.048 | 79.4 | 0 | 0.084 | 12.97 | 5.41 | 376.7 | 19.41 | 28.3 | 99% KM (Chebyshev) UCL | 28.3 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 65 | 0 | N/A | N/A | 0.037 | 3.9 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 65 | 0 | N/A | N/A | 0.037 | 3.9 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 65 | 0 | N/A | N/A | 0.037 | 3.9 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 10 | / | 65 | 15 | 0.2 | 11 | 0.037 | 2.1 | 3.524 | 3.4 | 11.61 | 3.408 | 0.966 | 95% KM (t) UCL | 0.966 | UCL |
| Aroclor-1248 | mg/kg | 2 | / | 65 | 3 | 0.0735 | 1.5 | 0.037 | 3.9 | 0.787 | 0.787 | 1.017 | 1.009 | -- | -- | 1.5 | Maximum Detect |
| Aroclor-1254 | mg/kg | 38 | / | 65 | 58 | 0.048 | 35 | 0.037 | 0.087 | 6.766 | 1.445 | 108.6 | 10.42 | 8.646 | 95% KM (Chebyshev) UCL | 8.646 | UCL |
| Aroclor-1260 | mg/kg | 40 | / | 65 | 62 | 0.048 | 42 | 0.037 | 0.05 | 5.613 | 0.89 | 74.5 | 8.631 | 12.92 | 95% KM H-UCL | 12.92 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 59 | 0 | N/A | N/A | 0.037 | 3.9 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 25 | / | 64 | 39 | 0.058 | 3.4 | 0.037 | 3.9 | 1.045 | 0.51 | 1.281 | 1.132 | 0.695 | 95% KM Approximate Gamma UCL | 0.695 | UCL |
| BZ#105 | mg/kg | 4 | / | 4 | 100 | 0.012 | 0.028 | N/A | N/A | 0.0185 | 0.017 | 4.8333E-05 | 0.00695 | -- | -- | 0.028 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0016 | 0.0068 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 4 | / | 4 | 100 | 0.024 | 0.049 | N/A | N/A | 0.0363 | 0.036 | 0.00015825 | 0.0126 | -- | -- | 0.049 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0016 | 0.0068 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0016 | 0.0035 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 4 | / | 4 | 100 | 0.05 | 0.091 | N/A | N/A | 0.0668 | 0.063 | 0.00035292 | 0.0188 | -- | -- | 0.091 | Maximum Detect |
| BZ#156 | mg/kg | 4 | / | 4 | 100 | 0.0058 | 0.0089 | N/A | N/A | 0.0072 | 0.00705 | 2.0067E-06 | 0.00142 | -- | -- | 0.0089 | Maximum Detect |
| BZ#157 | mg/kg | 2 | / | 4 | 50 | 0.0022 | 0.003 | 0.0034 | 0.0068 | 0.0026 | 0.0026 | 0.00000032 | 0.00056569 | -- | -- | 0.003 | Maximum Detect |
| BZ#167 | mg/kg | 2 | / | 4 | 50 | 0.0039 | 0.0041 | 0.0037 | 0.0068 | 0.004 | 0.004 | 0.00000002 | 0.00014142 | -- | -- | 0.0041 | Maximum Detect |
| BZ#169 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0016 | 0.0035 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0016 | 0.0035 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0016 | 0.0068 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0032 | 0.01 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 4 | / | 4 | 100 | 55.5 | 131 | N/A | N/A | 90.33 | 87.4 | 1333 | 36.51 | -- | -- | 131 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 3 | / | 4 | 75 | 10.7 | 25.8 | 9.46 | 9.46 | 16.87 | 14.1 | 62.74 | 7.921 | -- | -- | 25.8 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 3 | / | 4 | 75 | 2.77 | 6.66 | 2.84 | 2.84 | 4.07 | 2.78 | 5.031 | 2.243 | -- | -- | 6.66 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 4 | / | 4 | 100 | 0.507 | 1.16 | N/A | N/A | 0.867 | 0.9 | 0.111 | 0.333 | -- | -- | 1.16 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 4 | / | 4 | 100 | 9.06 | 17.7 | N/A | N/A | 11.74 | 10.1 | 16.03 | 4.003 | -- | -- | 17.7 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 3 | / | 4 | 75 | 0.996 | 3.39 | 2.03 | 2.03 | 1.849 | 1.16 | 1.789 | 1.337 | -- | -- | 3.39 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 3 | / | 4 | 75 | 2.17 | 4.31 | 3.35 | 3.35 | 2.937 | 2.33 | 1.421 | 1.192 | -- | -- | 4.31 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 4 | / | 4 | 100 | 1.39 | 3.23 | N/A | N/A | 2.3 | 2.29 | 0.864 | 0.929 | -- | -- | 3.23 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 4 | / | 4 | 100 | 0.315 | 0.43 | N/A | N/A | 0.373 | 0.374 | 0.00374 | 0.0612 | -- | -- | 0.43 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 4 | / | 4 | 100 | 0.283 | 0.464 | N/A | N/A | 0.369 | 0.365 | 0.00565 | 0.0751 | -- | -- | 0.464 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 4 | / | 4 | 100 | 2.42 | 5.66 | N/A | N/A | 3.338 | 2.635 | 2.426 | 1.557 | -- | -- | 5.66 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 4 | / | 4 | 100 | 1.28 | 2.96 | N/A | N/A | 1.898 | 1.675 | 0.616 | 0.785 | -- | -- | 2.96 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 4 | / | 4 | 100 | 4.02 | 7.72 | N/A | N/A | 5.688 | 5.505 | 3.661 | 1.913 | -- | -- | 7.72 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 0 | / | 4 | 0 | N/A | N/A | 0.103 | 0.188 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 3 | / | 4 | 75 | 3.83 | 21 | 7.65 | 7.65 | 9.667 | 4.17 | 96.36 | 9.816 | -- | -- | 21 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 18 | / | 18 | 100 | 9.05 | 24.6 | N/A | N/A | 19.56 | 20.4 | 21.38 | 4.624 | 21.41 | 95% Modified-t UCL | 21.41 | UCL |
| TOC by lloyd kahn | mg/kg | 64 | / | 64 | 100 | 3030 | 40400 | N/A | N/A | 17834 | 17400 | 69363554 | 8328 | 19572 | 95% Student's-t UCL | 19572 | UCL |
| **Reach C3 Riparian** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 1 | / | 1 | 100 | 16.2 | 16.2 | N/A | N/A | 16.2 | 16.2 | N/A | N/A | -- | -- | 16.2 | Maximum Detect |
| Lead | mg/kg | 1 | / | 1 | 100 | 35.9 | 35.9 | N/A | N/A | 35.9 | 35.9 | N/A | N/A | -- | -- | 35.9 | Maximum Detect |
| Mercury | mg/kg | 13 | / | 13 | 100 | 0.27 | 13 | N/A | N/A | 3.219 | 2 | 12.81 | 3.579 | 5.913 | 95% Adjusted Gamma UCL | 5.913 | UCL |
| Vanadium | mg/kg | 1 | / | 1 | 100 | 15.8 | 15.8 | N/A | N/A | 15.8 | 15.8 | N/A | N/A | -- | -- | 15.8 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Total PCBs | mg/kg | 21 | / | 22 | 95 | 0.081 | 79.4 | 0 | 0 | 13.14 | 8.66 | 332.4 | 18.23 | 23.95 | 95% Gamma Adjusted KM-UCL | 23.95 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 15 | 0 | N/A | N/A | 0.038 | 1.6 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 15 | 0 | N/A | N/A | 0.04 | 1.7 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 1 | / | 15 | 7 | 0.48 | 0.48 | 0.04 | 1.6 | 0.48 | 0.48 | N/A | N/A | -- | -- | 0.48 | Maximum Detect |
| Aroclor-1242 | mg/kg | 7 | / | 15 | 47 | 0.27 | 3.2 | 0.038 | 0.85 | 1.623 | 1.1 | 1.168 | 1.081 | 1.297 | 95% KM (t) UCL | 1.297 | UCL |
| Aroclor-1248 | mg/kg | 2 | / | 15 | 13 | 0.34 | 3.9 | 0.04 | 1.6 | 2.12 | 2.12 | 6.337 | 2.517 | -- | -- | 3.9 | Maximum Detect |
| Aroclor-1254 | mg/kg | 15 | / | 15 | 100 | 0.081 | 35 | N/A | N/A | 7.507 | 4.2 | 96.13 | 9.804 | 17.02 | 95% Adjusted Gamma UCL | 17.02 | UCL |
| Aroclor-1260 | mg/kg | 14 | / | 15 | 93 | 0.22 | 42 | 0.05 | 0.05 | 6.536 | 3.1 | 119.1 | 10.91 | 17.77 | 95% Gamma Adjusted KM-UCL | 17.77 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 11 | 0 | N/A | N/A | 0.04 | 1.6 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 7 | / | 13 | 54 | 0.069 | 2.4 | 0.04 | 1.6 | 0.716 | 0.46 | 0.665 | 0.816 | 0.808 | 95% KM (t) UCL | 0.808 | UCL |
| BZ#105 | mg/kg | 2 | / | 2 | 100 | 0.05 | 0.083 | N/A | N/A | 0.0665 | 0.0665 | 0.0005445 | 0.0233 | -- | -- | 0.083 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0074 | 0.0086 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 2 | / | 2 | 100 | 0.094 | 0.14 | N/A | N/A | 0.117 | 0.117 | 0.00106 | 0.0325 | -- | -- | 0.14 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0074 | 0.0086 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0074 | 0.0086 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 2 | / | 2 | 100 | 0.13 | 0.2 | N/A | N/A | 0.165 | 0.165 | 0.00245 | 0.0495 | -- | -- | 0.2 | Maximum Detect |
| BZ#156 | mg/kg | 2 | / | 2 | 100 | 0.017 | 0.027 | N/A | N/A | 0.022 | 0.022 | 0.00005 | 0.00707 | -- | -- | 0.027 | Maximum Detect |
| BZ#157 | mg/kg | 1 | / | 2 | 50 | 0.0086 | 0.0086 | 0.0074 | 0.0074 | 0.0086 | 0.0086 | N/A | N/A | -- | -- | 0.0086 | Maximum Detect |
| BZ#167 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.015 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0074 | 0.0086 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0074 | 0.0086 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0074 | 0.0086 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.015 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 2 | / | 2 | 100 | 27.9 | 94.7 | N/A | N/A | 61.3 | 61.3 | 2231 | 47.23 | -- | -- | 94.7 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 2 | / | 2 | 100 | 42 | 46.7 | N/A | N/A | 44.35 | 44.35 | 11.05 | 3.323 | -- | -- | 46.7 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 2 | / | 2 | 100 | 11.7 | 13.3 | N/A | N/A | 12.5 | 12.5 | 1.28 | 1.131 | -- | -- | 13.3 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 2 | / | 2 | 100 | 0.489 | 1.13 | N/A | N/A | 0.81 | 0.81 | 0.205 | 0.453 | -- | -- | 1.13 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 2 | / | 2 | 100 | 27.9 | 37.2 | N/A | N/A | 32.55 | 32.55 | 43.25 | 6.576 | -- | -- | 37.2 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 2 | / | 2 | 100 | 1.31 | 3.33 | N/A | N/A | 2.32 | 2.32 | 2.04 | 1.428 | -- | -- | 3.33 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 2 | / | 2 | 100 | 8.78 | 11 | N/A | N/A | 9.89 | 9.89 | 2.464 | 1.57 | -- | -- | 11 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 2 | / | 2 | 100 | 1.1 | 2.24 | N/A | N/A | 1.67 | 1.67 | 0.65 | 0.806 | -- | -- | 2.24 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 2 | / | 2 | 100 | 0.884 | 0.96 | N/A | N/A | 0.922 | 0.922 | 0.00289 | 0.0537 | -- | -- | 0.96 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 1 | / | 2 | 50 | 0.323 | 0.323 | 0.618 | 0.618 | 0.323 | 0.323 | N/A | N/A | -- | -- | 0.323 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 2 | / | 2 | 100 | 6.8 | 7.33 | N/A | N/A | 7.065 | 7.065 | 0.14 | 0.375 | -- | -- | 7.33 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 2 | / | 2 | 100 | 5.35 | 5.85 | N/A | N/A | 5.6 | 5.6 | 0.125 | 0.354 | -- | -- | 5.85 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 2 | / | 2 | 100 | 16.1 | 16.4 | N/A | N/A | 16.25 | 16.25 | 0.045 | 0.212 | -- | -- | 16.4 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 1 | / | 2 | 50 | 0.137 | 0.137 | 0.195 | 0.195 | 0.137 | 0.137 | N/A | N/A | -- | -- | 0.137 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 2 | / | 2 | 100 | 13.7 | 30.9 | N/A | N/A | 22.3 | 22.3 | 147.9 | 12.16 | -- | -- | 30.9 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 2 | / | 2 | 100 | 10 | 24 | N/A | N/A | 17 | 17 | 98 | 9.899 | -- | -- | 24 | Maximum Detect |
| TOC by lloyd kahn | mg/kg | 15 | / | 15 | 100 | 3400 | 27000 | N/A | N/A | 15591 | 15600 | 50868641 | 7132 | 18835 | 95% Student's-t UCL | 18835 | UCL |
| **Reach C4 North** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 9 | / | 9 | 100 | 9.4 | 53.1 | N/A | N/A | 24.34 | 13.6 | 295.2 | 17.18 | 43.81 | 95% Adjusted Gamma UCL | 43.81 | UCL |
| Lead | mg/kg | 9 | / | 9 | 100 | 13.6 | 89.1 | N/A | N/A | 44.3 | 26.8 | 902.9 | 30.05 | 62.93 | 95% Student's-t UCL | 62.93 | UCL |
| Mercury | mg/kg | 103 | / | 103 | 100 | 0.028 | 21.7 | N/A | N/A | 1.505 | 0.52 | 9.811 | 3.132 | 2.241 | 95% H-UCL | 2.241 | UCL |
| Vanadium | mg/kg | 9 | / | 9 | 100 | 13.8 | 27.2 | N/A | N/A | 20.78 | 21.2 | 16.44 | 4.054 | 23.29 | 95% Student's-t UCL | 23.29 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 115 | / | 147 | 78 | 0.041 | 38 | 0.036 | 0.1 | 4.364 | 1.23 | 51.94 | 7.207 | 9.369 | 95% KM H-UCL | 9.369 | UCL |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Aroclor-1016 | mg/kg | 0 | / | 140 | 0 | N/A | N/A | 0.036 | 1.8 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 140 | 0 | N/A | N/A | 0.036 | 1.8 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 140 | 0 | N/A | N/A | 0.036 | 1.8 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 13 | / | 140 | 9 | 0.17 | 1.7 | 0.036 | 1.8 | 0.614 | 0.36 | 0.261 | 0.511 | 0.083 | 95% GROS Approximate Gamma UCL | 0.083 | UCL |
| Aroclor-1248 | mg/kg | 14 | / | 140 | 10 | 0.04 | 1.4 | 0.036 | 1.8 | 0.364 | 0.205 | 0.162 | 0.403 | 0.101 | 95% KM Approximate Gamma UCL | 0.101 | UCL |
| Aroclor-1254 | mg/kg | 94 | / | 140 | 67 | 0.046 | 20 | 0.036 | 0.099 | 2.108 | 0.465 | 13.33 | 3.651 | 2.587 | 95% KM (Chebyshev) UCL | 2.587 | UCL |
| Aroclor-1260 | mg/kg | 108 | / | 140 | 77 | 0.041 | 16 | 0.036 | 0.099 | 1.76 | 0.495 | 8.968 | 2.995 | 2.245 | 95% KM H-UCL | 2.245 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 92 | 0 | N/A | N/A | 0.036 | 1.8 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 60 | / | 134 | 45 | 0.047 | 2 | 0.036 | 1.3 | 0.358 | 0.19 | 0.194 | 0.44 | 0.187 | 95% KM H-UCL | 0.187 | UCL |
| BZ#105 | mg/kg | 10 | / | 10 | 100 | 0.013 | 0.12 | N/A | N/A | 0.0418 | 0.03 | 0.00115 | 0.034 | 0.0615 | 95% Student's-t UCL | 0.0615 | UCL |
| BZ#114 | mg/kg | 0 | / | 10 | 0 | N/A | N/A | 0.003 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 10 | / | 10 | 100 | 0.025 | 0.23 | N/A | N/A | 0.0805 | 0.06 | 0.00405 | 0.0636 | 0.117 | 95% Student's-t UCL | 0.117 | UCL |
| BZ#123 | mg/kg | 0 | / | 10 | 0 | N/A | N/A | 0.003 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 1 | / | 10 | 10 | 0.016 | 0.016 | 0.0015 | 0.017 | 0.016 | 0.016 | N/A | N/A | -- | -- | 0.016 | Maximum Detect |
| BZ#153 | mg/kg | 10 | / | 10 | 100 | 0.048 | 0.37 | N/A | N/A | 0.139 | 0.11 | 0.0104 | 0.102 | 0.198 | 95% Student's-t UCL | 0.198 | UCL |
| BZ#156 | mg/kg | 10 | / | 10 | 100 | 0.005 | 0.039 | N/A | N/A | 0.0145 | 0.0115 | 0.0001113 | 0.0105 | 0.0206 | 95% Student's-t UCL | 0.0206 | UCL |
| BZ#157 | mg/kg | 5 | / | 10 | 50 | 0.0018 | 0.0082 | 0.0032 | 0.017 | 0.00496 | 0.0045 | 6.553E-06 | 0.00256 | 0.00535 | 95% KM (t) UCL | 0.00535 | UCL |
| BZ#167 | mg/kg | 2 | / | 10 | 20 | 0.0027 | 0.0066 | 0.0064 | 0.034 | 0.00465 | 0.00465 | 7.605E-06 | 0.00276 | -- | -- | 0.0066 | Maximum Detect |
| BZ#169 | mg/kg | 0 | / | 10 | 0 | N/A | N/A | 0.0015 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 10 | 0 | N/A | N/A | 0.0015 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 10 | 0 | N/A | N/A | 0.003 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 10 | 0 | N/A | N/A | 0.0046 | 0.034 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 9 | / | 9 | 100 | 22.5 | 126 | N/A | N/A | 58.97 | 51.8 | 948.1 | 30.79 | 78.05 | 95% Student's-t UCL | 78.05 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 7 | / | 9 | 78 | 17.4 | 49.8 | 4.83 | 14.8 | 31.99 | 28.3 | 152.7 | 12.36 | 36.09 | 95% KM (t) UCL | 36.09 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 9 | / | 9 | 100 | 1.1 | 9.65 | N/A | N/A | 5.324 | 5.05 | 6.728 | 2.594 | 6.932 | 95% Student's-t UCL | 6.932 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 6 | / | 9 | 67 | 0.792 | 1.9 | 0.276 | 0.672 | 1.183 | 0.994 | 0.187 | 0.432 | 1.244 | 95% KM (t) UCL | 1.244 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 9 | / | 9 | 100 | 4.19 | 49.2 | N/A | N/A | 21.2 | 21.8 | 156.5 | 12.51 | 28.95 | 95% Student's-t UCL | 28.95 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 7 | / | 9 | 78 | 0.49 | 3.85 | 0.95 | 1.53 | 2.33 | 2.82 | 1.56 | 1.249 | 2.805 | 95% KM (t) UCL | 2.805 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 9 | / | 9 | 100 | 1.1 | 94.6 | N/A | N/A | 19.96 | 6.93 | 869.6 | 29.49 | 59.63 | 95% Adjusted Gamma UCL | 59.63 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 6 | / | 9 | 67 | 0.659 | 4.91 | 1.38 | 2.33 | 2.897 | 2.95 | 2.112 | 1.453 | 3.216 | 95% KM (t) UCL | 3.216 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 3 | / | 9 | 33 | 0.398 | 0.813 | 0.165 | 2.46 | 0.622 | 0.656 | 0.0439 | 0.21 | -- | -- | 0.813 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 4 | / | 9 | 44 | 0.42 | 0.909 | 0.148 | 0.985 | 0.635 | 0.605 | 0.0419 | 0.205 | -- | -- | 0.909 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 8 | / | 9 | 89 | 1.11 | 7.72 | 13.7 | 13.7 | 4.674 | 5.37 | 4.554 | 2.134 | 6.077 | 95% KM (t) UCL | 6.077 | UCL |
| 2,3,4,6,7,8-hxcdf | pg/g | 9 | / | 9 | 100 | 0.72 | 9.77 | N/A | N/A | 3.688 | 3.24 | 6.576 | 2.564 | 6.49 | 95% Adjusted Gamma UCL | 6.49 | UCL |
| 2,3,4,7,8-pecdf | pg/g | 9 | / | 9 | 100 | 1.63 | 28.4 | N/A | N/A | 10.73 | 10.2 | 56.33 | 7.506 | 19.5 | 95% Adjusted Gamma UCL | 19.5 | UCL |
| 2,3,7,8-tcdd | pg/g | 1 | / | 9 | 11 | 0.262 | 0.262 | 0.16 | 1.38 | 0.262 | 0.262 | N/A | N/A | -- | -- | 0.262 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 8 | / | 9 | 89 | 1.71 | 36.3 | 56.8 | 56.8 | 17.47 | 15.15 | 154.8 | 12.44 | 25.65 | 95% KM (t) UCL | 25.65 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 18 | / | 18 | 100 | 6.29 | 23 | N/A | N/A | 15.92 | 15.7 | 18.87 | 4.344 | 17.7 | 95% Student's-t UCL | 17.7 | UCL |
| TOC by lloyd kahn | mg/kg | 109 | / | 109 | 100 | 2510 | 58600 | N/A | N/A | 17490 | 15400 | 104700000 | 10232 | 19230 | 95% Approximate Gamma UCL | 19230 | UCL |
| **Reach C4 South** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 11 | / | 11 | 100 | 9.2 | 35.3 | N/A | N/A | 18.8 | 14.9 | 90 | 9.487 | 26.2 | 95% Adjusted Gamma UCL | 26.2 | UCL |
| Lead | mg/kg | 11 | / | 11 | 100 | 15.3 | 85.7 | N/A | N/A | 37.18 | 29.7 | 509.2 | 22.56 | 49.51 | 95% Student's-t UCL | 49.51 | UCL |
| Mercury | mg/kg | 131 | / | 131 | 100 | 0.0064 | 16.3 | N/A | N/A | 1.946 | 1.005 | 6.499 | 2.549 | 2.378 | 95% Approximate Gamma UCL | 2.378 | UCL |
| Vanadium | mg/kg | 11 | / | 11 | 100 | 11.5 | 25.5 | N/A | N/A | 20.16 | 20.2 | 19.7 | 4.439 | 22.59 | 95% Student's-t UCL | 22.59 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 118 | / | 145 | 81 | 0.051 | 51.5 | 0.036 | 0.086 | 6.181 | 3.625 | 62.84 | 7.927 | 6.261 | 95% KM Approximate Gamma UCL | 6.261 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 143 | 0 | N/A | N/A | 0.035 | 2.3 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Aroclor-1221 | mg/kg | 0 | / | 143 | 0 | N/A | N/A | 0.036 | 2.3 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 143 | 0 | N/A | N/A | 0.035 | 2.3 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 18 | / | 143 | 13 | 0.048 | 2.5 | 0.035 | 2.3 | 0.865 | 0.7 | 0.418 | 0.646 | 0.199 | 95% KM (t) UCL | 0.199 | UCL |
| Aroclor-1248 | mg/kg | 21 | / | 143 | 15 | 0.075 | 3.1 | 0.036 | 2.3 | 0.966 | 0.55 | 0.636 | 0.797 | 0.195 | 95% GROS Approximate Gamma UCL | 0.195 | UCL |
| Aroclor-1254 | mg/kg | 105 | / | 143 | 73 | 0.044 | 24 | 0.036 | 0.049 | 3.08 | 1.55 | 16.33 | 4.041 | 2.889 | 95% KM Approximate Gamma UCL | 2.889 | UCL |
| Aroclor-1260 | mg/kg | 116 | / | 143 | 81 | 0.051 | 25 | 0.036 | 0.049 | 2.782 | 1.65 | 12.88 | 3.588 | 2.822 | 95% KM Approximate Gamma UCL | 2.822 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 99 | 0 | N/A | N/A | 0.036 | 2.3 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 92 | / | 139 | 66 | 0.04 | 1.8 | 0.036 | 2.3 | 0.438 | 0.33 | 0.142 | 0.377 | 0.365 | 95% GROS Approximate Gamma UCL | 0.365 | UCL |
| BZ#105 | mg/kg | 10 | / | 10 | 100 | 0.037 | 0.13 | N/A | N/A | 0.0827 | 0.0903 | 0.00103 | 0.0321 | 0.101 | 95% Student's-t UCL | 0.101 | UCL |
| BZ#114 | mg/kg | 1 | / | 10 | 10 | 0.0089 | 0.0089 | 0.0058 | 0.017 | 0.0089 | 0.0089 | N/A | N/A | -- | -- | 0.0089 | Maximum Detect |
| BZ#118 | mg/kg | 10 | / | 10 | 100 | 0.076 | 0.24 | N/A | N/A | 0.151 | 0.16 | 0.00275 | 0.0525 | 0.181 | 95% Student's-t UCL | 0.181 | UCL |
| BZ#123 | mg/kg | 0 | / | 10 | 0 | N/A | N/A | 0.0058 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 10 | 0 | N/A | N/A | 0.0058 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 10 | / | 10 | 100 | 0.14 | 0.36 | N/A | N/A | 0.243 | 0.23 | 0.00491 | 0.0701 | 0.284 | 95% Student's-t UCL | 0.284 | UCL |
| BZ#156 | mg/kg | 10 | / | 10 | 100 | 0.014 | 0.042 | N/A | N/A | 0.027 | 0.0285 | 6.9556E-05 | 0.00834 | 0.0318 | 95% Student's-t UCL | 0.0318 | UCL |
| BZ#157 | mg/kg | 5 | / | 10 | 50 | 0.008 | 0.011 | 0.0071 | 0.017 | 0.00985 | 0.0097 | 1.545E-06 | 0.00124 | 0.01 | 95% KM (t) UCL | 0.01 | UCL |
| BZ#167 | mg/kg | 2 | / | 10 | 20 | 0.013 | 0.015 | 0.013 | 0.033 | 0.014 | 0.014 | 0.000002 | 0.00141 | -- | -- | 0.015 | Maximum Detect |
| BZ#169 | mg/kg | 0 | / | 10 | 0 | N/A | N/A | 0.0058 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 10 | 0 | N/A | N/A | 0.0058 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 10 | 0 | N/A | N/A | 0.0058 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 10 | 0 | N/A | N/A | 0.012 | 0.033 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 10 | / | 10 | 100 | 48 | 178 | N/A | N/A | 100.3 | 97.2 | 1490 | 38.6 | 122.7 | 95% Student's-t UCL | 122.7 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 8 | / | 10 | 80 | 23.4 | 71.6 | 45.6 | 70.8 | 47.24 | 46.4 | 233 | 15.26 | 54.9 | 95% KM (t) UCL | 54.9 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 10 | / | 10 | 100 | 4.65 | 16.4 | N/A | N/A | 11.15 | 11.05 | 12.77 | 3.574 | 13.23 | 95% Student's-t UCL | 13.23 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 9 | / | 10 | 90 | 0.729 | 2.8 | 0.842 | 0.842 | 1.404 | 1.15 | 0.447 | 0.668 | 1.725 | 95% KM (t) UCL | 1.725 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 10 | / | 10 | 100 | 17.7 | 59 | N/A | N/A | 40.91 | 40.75 | 173.8 | 13.18 | 48.55 | 95% Student's-t UCL | 48.55 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 10 | / | 10 | 100 | 1.74 | 7.01 | N/A | N/A | 3.793 | 3.375 | 3.259 | 1.805 | 4.839 | 95% Student's-t UCL | 4.839 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 10 | / | 10 | 100 | 6.65 | 37.9 | N/A | N/A | 12.63 | 9.335 | 84.57 | 9.196 | 17.96 | 95% Student's-t UCL | 17.96 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 9 | / | 10 | 90 | 1.83 | 7.38 | 3.36 | 3.36 | 3.802 | 3.06 | 3.925 | 1.981 | 4.802 | 95% KM (t) UCL | 4.802 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 6 | / | 10 | 60 | 0.853 | 1.17 | 0.475 | 1.98 | 0.979 | 0.923 | 0.0175 | 0.132 | 0.983 | 95% KM (t) UCL | 0.983 | UCL |
| 1,2,3,7,8-pecdd | pg/g | 8 | / | 10 | 80 | 0.436 | 1.36 | 0.401 | 1.09 | 0.834 | 0.702 | 0.127 | 0.356 | 0.981 | 95% KM (t) UCL | 0.981 | UCL |
| 1,2,3,7,8-pecdf | pg/g | 10 | / | 10 | 100 | 5.15 | 15.2 | N/A | N/A | 10.18 | 10.51 | 11.68 | 3.418 | 12.16 | 95% Student's-t UCL | 12.16 | UCL |
| 2,3,4,6,7,8-hxcdf | pg/g | 10 | / | 10 | 100 | 3.18 | 9.5 | N/A | N/A | 6.049 | 5.803 | 3.035 | 1.742 | 7.058 | 95% Student's-t UCL | 7.058 | UCL |
| 2,3,4,7,8-pecdf | pg/g | 10 | / | 10 | 100 | 7.95 | 26.8 | N/A | N/A | 17.7 | 17.6 | 42.1 | 6.489 | 21.46 | 95% Student's-t UCL | 21.46 | UCL |
| 2,3,7,8-tcdd | pg/g | 3 | / | 10 | 30 | 0.187 | 0.327 | 0.126 | 0.59 | 0.254 | 0.247 | 0.00493 | 0.0702 | -- | -- | 0.327 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 10 | / | 10 | 100 | 12.1 | 68.5 | N/A | N/A | 23.44 | 18.4 | 273.2 | 16.53 | 35.35 | 95% Adjusted Gamma UCL | 35.35 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 16 | / | 16 | 100 | 12 | 32 | N/A | N/A | 20.73 | 20.05 | 22.73 | 4.767 | 22.82 | 95% Student's-t UCL | 22.82 | UCL |
| TOC by lloyd kahn | mg/kg | 135 | / | 135 | 100 | 2740 | 37600 | N/A | N/A | 16580 | 15800 | 60882713 | 7803 | 17832 | 95% Approximate Gamma UCL | 17832 | UCL |
| **Reach C4 Riparian** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 4 | / | 4 | 100 | 13 | 46 | N/A | N/A | 26.43 | 23.35 | 195.9 | 14 | -- | -- | 46 | Maximum Detect |
| Lead | mg/kg | 4 | / | 4 | 100 | 26.8 | 89.1 | N/A | N/A | 52.88 | 47.8 | 692.4 | 26.31 | -- | -- | 89.1 | Maximum Detect |
| Mercury | mg/kg | 36 | / | 36 | 100 | 0.0064 | 17.4 | N/A | N/A | 2.514 | 1.2 | 11.26 | 3.355 | 3.627 | 95% Adjusted Gamma UCL | 3.627 | UCL |
| Vanadium | mg/kg | 4 | / | 4 | 100 | 13.8 | 22.2 | N/A | N/A | 17.75 | 17.5 | 12.8 | 3.578 | -- | -- | 22.2 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 49 | / | 52 | 94 | 0.156 | 31.3 | 0.036 | 0.039 | 8.006 | 4.61 | 63.5 | 7.969 | 9.806 | 95% KM Approximate Gamma UCL | 9.806 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 46 | 0 | N/A | N/A | 0.036 | 1.4 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 46 | 0 | N/A | N/A | 0.036 | 1.6 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Aroclor-1232 | mg/kg | 0 | / | 46 | 0 | N/A | N/A | 0.036 | 1.4 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 12 | / | 46 | 26 | 0.19 | 1.6 | 0.036 | 1.2 | 0.703 | 0.43 | 0.275 | 0.524 | 0.31 | 95% GROS Adjusted Gamma UCL | 0.31 | UCL |
| Aroclor-1248 | mg/kg | 10 | / | 46 | 22 | 0.04 | 1 | 0.036 | 1.4 | 0.506 | 0.485 | 0.0813 | 0.285 | 0.24 | 95% KM (t) UCL | 0.24 | UCL |
| Aroclor-1254 | mg/kg | 43 | / | 46 | 93 | 0.056 | 15 | 0.036 | 0.039 | 3.511 | 2.1 | 14.82 | 3.849 | 4.529 | 95% Gamma Adjusted KM-UCL | 4.529 | UCL |
| Aroclor-1260 | mg/kg | 43 | / | 46 | 93 | 0.1 | 13 | 0.036 | 0.039 | 3.415 | 1.8 | 11.65 | 3.413 | 4.281 | 95% Gamma Adjusted KM-UCL | 4.281 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 32 | 0 | N/A | N/A | 0.036 | 1.4 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 22 | / | 36 | 61 | 0.13 | 1.7 | 0.036 | 1.2 | 0.491 | 0.273 | 0.197 | 0.444 | 0.621 | 95% KM H-UCL | 0.621 | UCL |
| BZ#105 | mg/kg | 6 | / | 6 | 100 | 0.013 | 0.073 | N/A | N/A | 0.0458 | 0.049 | 0.00063657 | 0.0252 | -- | -- | 0.073 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0033 | 0.0078 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 6 | / | 6 | 100 | 0.027 | 0.13 | N/A | N/A | 0.086 | 0.0905 | 0.00192 | 0.0438 | -- | -- | 0.13 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0033 | 0.0078 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0033 | 0.0078 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 6 | / | 6 | 100 | 0.063 | 0.25 | N/A | N/A | 0.151 | 0.135 | 0.00489 | 0.07 | -- | -- | 0.25 | Maximum Detect |
| BZ#156 | mg/kg | 6 | / | 6 | 100 | 0.0053 | 0.023 | N/A | N/A | 0.0157 | 0.016 | 5.3802E-05 | 0.00733 | -- | -- | 0.023 | Maximum Detect |
| BZ#157 | mg/kg | 3 | / | 6 | 50 | 0.0068 | 0.0082 | 0.0033 | 0.0054 | 0.00767 | 0.008 | 5.7333E-07 | 0.00075719 | -- | -- | 0.0082 | Maximum Detect |
| BZ#167 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0066 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0033 | 0.0078 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0033 | 0.0078 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0033 | 0.0078 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0066 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 6 | / | 6 | 100 | 22.5 | 136 | N/A | N/A | 67.83 | 48 | 2518 | 50.18 | -- | -- | 136 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 3 | / | 6 | 50 | 21.1 | 47.3 | 4.83 | 70.8 | 32.23 | 28.3 | 183.2 | 13.54 | -- | -- | 47.3 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 6 | / | 6 | 100 | 1.1 | 15.8 | N/A | N/A | 6.215 | 5.32 | 26.29 | 5.128 | -- | -- | 15.8 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 3 | / | 6 | 50 | 0.896 | 1.9 | 0.276 | 0.672 | 1.455 | 1.57 | 0.262 | 0.512 | -- | -- | 1.9 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 6 | / | 6 | 100 | 4.19 | 55.7 | N/A | N/A | 22.53 | 20.05 | 309.9 | 17.61 | -- | -- | 55.7 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 4 | / | 6 | 67 | 0.49 | 5.28 | 0.95 | 1.53 | 2.72 | 2.555 | 4.978 | 2.231 | -- | -- | 5.28 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 6 | / | 6 | 100 | 1.1 | 31.1 | N/A | N/A | 13.87 | 14.15 | 108.3 | 10.41 | -- | -- | 31.1 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 3 | / | 6 | 50 | 0.659 | 5.2 | 1.38 | 2.33 | 3.59 | 4.91 | 6.463 | 2.542 | -- | -- | 5.2 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 2 | / | 6 | 33 | 0.813 | 1.17 | 0.165 | 1.28 | 0.992 | 0.992 | 0.0637 | 0.252 | -- | -- | 1.17 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 2 | / | 6 | 33 | 0.909 | 1.02 | 0.148 | 0.614 | 0.965 | 0.965 | 0.00616 | 0.0785 | -- | -- | 1.02 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 6 | / | 6 | 100 | 1.11 | 13 | N/A | N/A | 5.958 | 5.595 | 17.4 | 4.171 | -- | -- | 13 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 6 | / | 6 | 100 | 0.72 | 7.78 | N/A | N/A | 3.585 | 3.235 | 5.708 | 2.389 | -- | -- | 7.78 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 6 | / | 6 | 100 | 1.63 | 23.8 | N/A | N/A | 10.84 | 10.6 | 56.58 | 7.522 | -- | -- | 23.8 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 2 | / | 6 | 33 | 0.247 | 0.262 | 0.187 | 0.372 | 0.255 | 0.255 | 0.0001125 | 0.0106 | -- | -- | 0.262 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 6 | / | 6 | 100 | 1.71 | 36.3 | N/A | N/A | 21.04 | 21.5 | 171.8 | 13.11 | -- | -- | 36.3 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 6 | / | 6 | 100 | 15 | 21 | N/A | N/A | 19.17 | 20 | 4.567 | 2.137 | -- | -- | 21 | Maximum Detect |
| TOC by lloyd kahn | mg/kg | 46 | / | 46 | 100 | 2740 | 37750 | N/A | N/A | 16462 | 15600 | 97588154 | 9879 | 19539 | 95% Adjusted Gamma UCL | 19539 | UCL |
| **Reach C5 North** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 10 | / | 10 | 100 | 6.2 | 35.8 | N/A | N/A | 14.47 | 11.05 | 87.37 | 9.347 | 19.89 | 95% Student's-t UCL | 19.89 | UCL |
| Lead | mg/kg | 10 | / | 10 | 100 | 10.2 | 39.2 | N/A | N/A | 17.04 | 15 | 67.76 | 8.232 | 21.81 | 95% Student's-t UCL | 21.81 | UCL |
| Mercury | mg/kg | 120 | / | 120 | 100 | 0.017 | 3.7 | N/A | N/A | 0.436 | 0.1 | 0.548 | 0.74 | 0.731 | 95% Chebyshev (Mean, Sd) UCL | 0.731 | UCL |
| Vanadium | mg/kg | 10 | / | 10 | 100 | 7.2 | 42.8 | N/A | N/A | 21.16 | 20.6 | 142.7 | 11.95 | 28.09 | 95% Student's-t UCL | 28.09 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 68 | / | 127 | 54 | 0.04 | 9.39 | 0.036 | 0.086 | 1.383 | 0.445 | 3.791 | 1.947 | 1.008 | 95% KM H-UCL | 1.008 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 127 | 0 | N/A | N/A | 0.036 | 0.46 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 127 | 0 | N/A | N/A | 0.036 | 0.82 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 127 | 0 | N/A | N/A | 0.036 | 0.46 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Aroclor-1242 | mg/kg | 4 | / | 127 | 3 | 0.24 | 1.5 | 0.036 | 0.46 | 0.62 | 0.37 | 0.351 | 0.593 | -- | -- | 1.5 | Maximum Detect |
| Aroclor-1248 | mg/kg | 7 | / | 127 | 6 | 0.042 | 0.59 | 0.036 | 0.46 | 0.293 | 0.33 | 0.0373 | 0.193 | 0.0621 | 95% KM (t) UCL | 0.0621 | UCL |
| Aroclor-1254 | mg/kg | 49 | / | 127 | 39 | 0.039 | 3.4 | 0.036 | 0.044 | 0.708 | 0.31 | 0.702 | 0.838 | 0.534 | 95% KM (Chebyshev) UCL | 0.534 | UCL |
| Aroclor-1260 | mg/kg | 68 | / | 127 | 54 | 0.037 | 5.4 | 0.036 | 0.044 | 0.724 | 0.23 | 1.018 | 1.009 | 0.72 | 95% KM (Chebyshev) UCL | 0.72 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 100 | 0 | N/A | N/A | 0.036 | 0.46 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 31 | / | 123 | 25 | 0.044 | 0.5 | 0.036 | 0.42 | 0.18 | 0.123 | 0.0194 | 0.139 | 0.0647 | 95% GROS Approximate Gamma UCL | 0.0647 | UCL |
| BZ#105 | mg/kg | 13 | / | 13 | 100 | 0.0047 | 0.089 | N/A | N/A | 0.0401 | 0.04 | 0.00081974 | 0.0286 | 0.0543 | 95% Student's-t UCL | 0.0543 | UCL |
| BZ#114 | mg/kg | 0 | / | 13 | 0 | N/A | N/A | 0.0016 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 13 | / | 13 | 100 | 0.0099 | 0.18 | N/A | N/A | 0.0791 | 0.08 | 0.0031 | 0.0557 | 0.107 | 95% Student's-t UCL | 0.107 | UCL |
| BZ#123 | mg/kg | 0 | / | 13 | 0 | N/A | N/A | 0.0016 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 13 | 0 | N/A | N/A | 0.0016 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 13 | / | 13 | 100 | 0.031 | 0.3 | N/A | N/A | 0.146 | 0.14 | 0.00681 | 0.0825 | 0.187 | 95% Student's-t UCL | 0.187 | UCL |
| BZ#156 | mg/kg | 13 | / | 13 | 100 | 0.0023 | 0.033 | N/A | N/A | 0.015 | 0.015 | 9.6339E-05 | 0.00982 | 0.0199 | 95% Student's-t UCL | 0.0199 | UCL |
| BZ#157 | mg/kg | 2 | / | 13 | 15 | 0.0056 | 0.012 | 0.0016 | 0.017 | 0.0088 | 0.0088 | 0.00002048 | 0.00453 | -- | -- | 0.012 | Maximum Detect |
| BZ#167 | mg/kg | 0 | / | 13 | 0 | N/A | N/A | 0.0031 | 0.033 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 13 | 0 | N/A | N/A | 0.0016 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 13 | 0 | N/A | N/A | 0.0016 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 1 | / | 13 | 8 | 0.071 | 0.071 | 0.0016 | 0.017 | 0.071 | 0.071 | N/A | N/A | -- | -- | 0.071 | Maximum Detect |
| BZ#81 | mg/kg | 0 | / | 13 | 0 | N/A | N/A | 0.0031 | 0.033 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 13 | / | 13 | 100 | 25.5 | 425 | N/A | N/A | 117.6 | 87 | 10466 | 102.3 | 183.8 | 95% Adjusted Gamma UCL | 183.8 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 7 | / | 13 | 54 | 8.87 | 98.9 | 13.3 | 66.7 | 49.04 | 43.7 | 964.2 | 31.05 | 49.87 | 95% KM (t) UCL | 49.87 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 13 | / | 13 | 100 | 1.37 | 15.1 | N/A | N/A | 8.708 | 8.86 | 19.09 | 4.369 | 10.87 | 95% Student's-t UCL | 10.87 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 10 | / | 13 | 77 | 0.334 | 2.53 | 0.24 | 1.23 | 1.215 | 1.035 | 0.508 | 0.713 | 1.398 | 95% KM (t) UCL | 1.398 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 13 | / | 13 | 100 | 5.54 | 183 | N/A | N/A | 38.75 | 29.6 | 2059 | 45.37 | 66.94 | 95% Adjusted Gamma UCL | 66.94 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 13 | / | 13 | 100 | 0.949 | 17.6 | N/A | N/A | 4.938 | 3.64 | 18.66 | 4.319 | 7.908 | 95% Adjusted Gamma UCL | 7.908 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 10 | / | 13 | 77 | 1.4 | 88.2 | 8.67 | 23.9 | 38.57 | 27.05 | 1074 | 32.78 | 47.06 | 95% KM (t) UCL | 47.06 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 13 | / | 13 | 100 | 0.708 | 6.71 | N/A | N/A | 3.498 | 3.08 | 4.143 | 2.035 | 4.504 | 95% Student's-t UCL | 4.504 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 5 | / | 13 | 38 | 0.223 | 1.83 | 0.505 | 2.33 | 1.057 | 1.09 | 0.391 | 0.626 | 1.035 | 95% KM (t) UCL | 1.035 | UCL |
| 1,2,3,7,8-pecdd | pg/g | 1 | / | 13 | 8 | 0.547 | 0.547 | 0.11 | 1.16 | 0.547 | 0.547 | N/A | N/A | -- | -- | 0.547 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 9 | / | 13 | 69 | 1.83 | 17.6 | 1.22 | 14.6 | 7.648 | 5.75 | 24.19 | 4.919 | 8.974 | 95% KM (t) UCL | 8.974 | UCL |
| 2,3,4,6,7,8-hxcdf | pg/g | 11 | / | 13 | 85 | 1.01 | 7.87 | 6.56 | 7.15 | 4.24 | 3.94 | 5.389 | 2.321 | 5.243 | 95% KM (t) UCL | 5.243 | UCL |
| 2,3,4,7,8-pecdf | pg/g | 13 | / | 13 | 100 | 3.17 | 35 | N/A | N/A | 14.7 | 12.7 | 105 | 10.25 | 19.76 | 95% Student's-t UCL | 19.76 | UCL |
| 2,3,7,8-tcdd | pg/g | 0 | / | 13 | 0 | N/A | N/A | 0.106 | 1.81 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 12 | / | 13 | 92 | 5.3 | 140 | 36.6 | 36.6 | 54.1 | 62.45 | 1629 | 40.37 | 71.12 | 95% KM (t) UCL | 71.12 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 13 | / | 13 | 100 | 13 | 37 | N/A | N/A | 21.92 | 20 | 44.91 | 6.702 | 25.24 | 95% Student's-t UCL | 25.24 | UCL |
| TOC by lloyd kahn | mg/kg | 124 | / | 124 | 100 | 1340 | 32300 | N/A | N/A | 14208 | 13775 | 52410287 | 7239 | 15285 | 95% Student's-t UCL | 15285 | UCL |
| **Reach C5 South** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 8 | / | 8 | 100 | 5.8 | 41.9 | N/A | N/A | 16.68 | 11.8 | 154.7 | 12.44 | 25.01 | 95% Student's-t UCL | 25.01 | UCL |
| Lead | mg/kg | 8 | / | 8 | 100 | 7.3 | 95.6 | N/A | N/A | 34.08 | 25 | 876.2 | 29.6 | 53.9 | 95% Student's-t UCL | 53.9 | UCL |
| Mercury | mg/kg | 92 | / | 92 | 100 | 0.018 | 3.9 | N/A | N/A | 0.533 | 0.155 | 0.674 | 0.821 | 0.906 | 95% Chebyshev (Mean, Sd) UCL | 0.906 | UCL |
| Vanadium | mg/kg | 8 | / | 8 | 100 | 4.3 | 44.9 | N/A | N/A | 22.66 | 19.2 | 196.6 | 14.02 | 32.06 | 95% Student's-t UCL | 32.06 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 52 | / | 101 | 51 | 0.048 | 15.5 | 0.037 | 0.14 | 1.946 | 1.33 | 6.086 | 2.467 | 1.453 | 95% KM Approximate Gamma UCL | 1.453 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 101 | 0 | N/A | N/A | 0.035 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 101 | 0 | N/A | N/A | 0.036 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 101 | 0 | N/A | N/A | 0.035 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 9 | / | 101 | 9 | 0.045 | 0.44 | 0.035 | 0.85 | 0.234 | 0.16 | 0.0204 | 0.143 | 0.0663 | 95% KM (t) UCL | 0.0663 | UCL |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Aroclor-1248 | mg/kg | 8 | / | 101 | 8 | 0.11 | 0.94 | 0.035 | 0.85 | 0.316 | 0.245 | 0.0736 | 0.271 | 0.0428 | 95% GROS Approximate Gamma UCL | 0.0428 | UCL |
| Aroclor-1254 | mg/kg | 47 | / | 101 | 47 | 0.047 | 6.8 | 0.035 | 0.072 | 0.863 | 0.61 | 1.225 | 1.107 | 0.608 | 95% KM Approximate Gamma UCL | 0.608 | UCL |
| Aroclor-1260 | mg/kg | 52 | / | 101 | 51 | 0.048 | 7.7 | 0.035 | 0.072 | 0.973 | 0.655 | 1.44 | 1.2 | 0.726 | 95% KM Approximate Gamma UCL | 0.726 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 84 | 0 | N/A | N/A | 0.036 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 29 | / | 96 | 30 | 0.038 | 0.96 | 0.035 | 0.49 | 0.195 | 0.16 | 0.0302 | 0.174 | 0.0834 | 95% GROS Approximate Gamma UCL | 0.0834 | UCL |
| BZ#105 | mg/kg | 12 | / | 12 | 100 | 0.012 | 0.095 | N/A | N/A | 0.0443 | 0.0395 | 0.00051388 | 0.0227 | 0.0561 | 95% Student's-t UCL | 0.0561 | UCL |
| BZ#114 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0018 | 0.0095 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 12 | / | 12 | 100 | 0.026 | 0.17 | N/A | N/A | 0.0863 | 0.0805 | 0.00176 | 0.0419 | 0.108 | 95% Student's-t UCL | 0.108 | UCL |
| BZ#123 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0018 | 0.0095 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0018 | 0.0095 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 12 | / | 12 | 100 | 0.068 | 0.24 | N/A | N/A | 0.144 | 0.13 | 0.00361 | 0.0601 | 0.175 | 95% Student's-t UCL | 0.175 | UCL |
| BZ#156 | mg/kg | 12 | / | 12 | 100 | 0.0066 | 0.028 | N/A | N/A | 0.0162 | 0.0155 | 4.7235E-05 | 0.00687 | 0.0197 | 95% Student's-t UCL | 0.0197 | UCL |
| BZ#157 | mg/kg | 7 | / | 12 | 58 | 0.0024 | 0.0096 | 0.0047 | 0.0095 | 0.00536 | 0.0052 | 5.8995E-06 | 0.00243 | 0.00601 | 95% KM (t) UCL | 0.00601 | UCL |
| BZ#167 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0036 | 0.019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0018 | 0.0095 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0018 | 0.0095 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0018 | 0.0095 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0036 | 0.019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 11 | / | 11 | 100 | 27.1 | 191 | N/A | N/A | 92.3 | 75.7 | 2998 | 54.76 | 122.2 | 95% Student's-t UCL | 122.2 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 11 | / | 11 | 100 | 14.3 | 74.1 | N/A | N/A | 43.57 | 45 | 467 | 21.61 | 55.38 | 95% Student's-t UCL | 55.38 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 10 | / | 11 | 91 | 2.87 | 54.5 | 13.5 | 13.5 | 13.63 | 9.975 | 219.7 | 14.82 | 22.34 | 95% KM H-UCL | 22.34 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 9 | / | 11 | 82 | 0.314 | 2.63 | 0.752 | 5.6 | 1.209 | 1.19 | 0.44 | 0.663 | 1.526 | 95% KM (t) UCL | 1.526 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 10 | / | 11 | 91 | 7.37 | 120 | 6.63 | 6.63 | 38.23 | 31.2 | 986.2 | 31.4 | 67.49 | 95% KM Adjusted Gamma UCL | 67.49 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 9 | / | 11 | 82 | 1.24 | 7.57 | 1.85 | 5.81 | 3.733 | 2.38 | 6.123 | 2.474 | 4.739 | 95% KM (t) UCL | 4.739 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 11 | / | 11 | 100 | 2.36 | 146 | N/A | N/A | 55.54 | 43.3 | 2308 | 48.04 | 81.79 | 95% Student's-t UCL | 81.79 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 7 | / | 11 | 64 | 0.989 | 7.73 | 2.84 | 6.13 | 4.127 | 4.11 | 5.544 | 2.355 | 4.722 | 95% KM (t) UCL | 4.722 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 3 | / | 11 | 27 | 0.32 | 1.31 | 0.686 | 6.71 | 0.716 | 0.519 | 0.274 | 0.524 | -- | -- | 1.31 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 2 | / | 11 | 18 | 0.393 | 1.56 | 0.23 | 1.85 | 0.977 | 0.977 | 0.681 | 0.825 | -- | -- | 1.56 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 4 | / | 11 | 36 | 2.65 | 15.3 | 0.815 | 2.4 | 8.53 | 8.085 | 34.26 | 5.853 | -- | -- | 15.3 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 4 | / | 11 | 36 | 1.39 | 16.3 | 3.45 | 6.88 | 6.88 | 4.915 | 46.35 | 6.808 | -- | -- | 16.3 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 10 | / | 11 | 91 | 3.85 | 73.7 | 3.61 | 3.61 | 16.93 | 10.35 | 444.5 | 21.08 | 29.13 | 95% KM H-UCL | 29.13 | UCL |
| 2,3,7,8-tcdd | pg/g | 2 | / | 11 | 18 | 0.136 | 0.543 | 0.106 | 5.48 | 0.34 | 0.34 | 0.0828 | 0.288 | -- | -- | 0.543 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 10 | / | 11 | 91 | 7.5 | 122 | 304 | 304 | 62.09 | 57.4 | 1956 | 44.23 | 87.44 | 95% KM (t) UCL | 87.44 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 11 | / | 11 | 100 | 15 | 32 | N/A | N/A | 22.55 | 23 | 33.27 | 5.768 | 25.7 | 95% Student's-t UCL | 25.7 | UCL |
| TOC by lloyd kahn | mg/kg | 97 | / | 97 | 100 | 1820 | 71200 | N/A | N/A | 15461 | 14100 | 107900000 | 10388 | 17305 | 95% Approximate Gamma UCL | 17305 | UCL |
| **Reach C5 Riparian** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 2 | / | 2 | 100 | 7.1 | 41.9 | N/A | N/A | 24.5 | 24.5 | 605.5 | 24.61 | -- | -- | 41.9 | Maximum Detect |
| Lead | mg/kg | 2 | / | 2 | 100 | 26.6 | 52.7 | N/A | N/A | 39.65 | 39.65 | 340.6 | 18.46 | -- | -- | 52.7 | Maximum Detect |
| Mercury | mg/kg | 44 | / | 44 | 100 | 0.031 | 3.9 | N/A | N/A | 1.02 | 0.59 | 1.244 | 1.115 | 1.381 | 95% Adjusted Gamma UCL | 1.381 | UCL |
| Vanadium | mg/kg | 2 | / | 2 | 100 | 11 | 15.7 | N/A | N/A | 13.35 | 13.35 | 11.04 | 3.323 | -- | -- | 15.7 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 51 | / | 57 | 89 | 0.049 | 15.5 | 0.037 | 0.072 | 2.371 | 1.54 | 7.61 | 2.759 | 2.881 | 95% KM Approximate Gamma UCL | 2.881 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 57 | 0 | N/A | N/A | 0.035 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 57 | 0 | N/A | N/A | 0.037 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 57 | 0 | N/A | N/A | 0.035 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 6 | / | 57 | 11 | 0.13 | 1.5 | 0.035 | 0.85 | 0.457 | 0.27 | 0.271 | 0.521 | 0.153 | 95% KM Approximate Gamma UCL | 0.153 | UCL |
| Aroclor-1248 | mg/kg | 14 | / | 57 | 25 | 0.069 | 0.94 | 0.035 | 0.85 | 0.324 | 0.29 | 0.0513 | 0.226 | 0.15 | 95% KM (t) UCL | 0.15 | UCL |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Aroclor-1254 | mg/kg | 46 | / | 57 | 81 | 0.054 | 6.8 | 0.035 | 0.048 | 1.046 | 0.71 | 1.46 | 1.208 | 1.179 | 95% KM Approximate Gamma UCL | 1.179 | UCL |
| Aroclor-1260 | mg/kg | 51 | / | 57 | 89 | 0.049 | 7.7 | 0.035 | 0.048 | 1.163 | 0.75 | 1.873 | 1.368 | 1.419 | 95% KM Approximate Gamma UCL | 1.419 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 39 | 0 | N/A | N/A | 0.037 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 30 | / | 48 | 63 | 0.045 | 0.96 | 0.035 | 0.43 | 0.215 | 0.178 | 0.0341 | 0.185 | 0.193 | 95% GROS Adjusted Gamma UCL | 0.193 | UCL |
| BZ#105 | mg/kg | 11 | / | 11 | 100 | 0.013 | 0.064 | N/A | N/A | 0.0375 | 0.039 | 0.00023187 | 0.0152 | 0.0458 | 95% Student's-t UCL | 0.0458 | UCL |
| BZ#114 | mg/kg | 0 | / | 11 | 0 | N/A | N/A | 0.0031 | 0.0087 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 11 | / | 11 | 100 | 0.026 | 0.14 | N/A | N/A | 0.0739 | 0.08 | 0.00099369 | 0.0315 | 0.0911 | 95% Student's-t UCL | 0.0911 | UCL |
| BZ#123 | mg/kg | 0 | / | 11 | 0 | N/A | N/A | 0.0031 | 0.0087 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 11 | 0 | N/A | N/A | 0.0031 | 0.0087 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 11 | / | 11 | 100 | 0.064 | 0.22 | N/A | N/A | 0.131 | 0.13 | 0.00219 | 0.0468 | 0.156 | 95% Student's-t UCL | 0.156 | UCL |
| BZ#156 | mg/kg | 11 | / | 11 | 100 | 0.0052 | 0.028 | N/A | N/A | 0.0145 | 0.015 | 4.3317E-05 | 0.00658 | 0.0181 | 95% Student's-t UCL | 0.0181 | UCL |
| BZ#157 | mg/kg | 5 | / | 11 | 45 | 0.0037 | 0.0096 | 0.0033 | 0.0083 | 0.00634 | 0.0056 | 4.858E-06 | 0.0022 | 0.00616 | 95% KM (t) UCL | 0.00616 | UCL |
| BZ#167 | mg/kg | 0 | / | 11 | 0 | N/A | N/A | 0.0062 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 11 | 0 | N/A | N/A | 0.0031 | 0.0087 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 11 | 0 | N/A | N/A | 0.0031 | 0.0087 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 1 | / | 11 | 9 | 0.071 | 0.071 | 0.0031 | 0.0087 | 0.071 | 0.071 | N/A | N/A | -- | -- | 0.071 | Maximum Detect |
| BZ#81 | mg/kg | 0 | / | 11 | 0 | N/A | N/A | 0.0062 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 10 | / | 10 | 100 | 27.1 | 166 | N/A | N/A | 84.56 | 72.8 | 1898 | 43.56 | 109.8 | 95% Student's-t UCL | 109.8 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 9 | / | 10 | 90 | 21 | 74.1 | 26.6 | 26.6 | 49.36 | 45 | 339.7 | 18.43 | 57.93 | 95% KM (t) UCL | 57.93 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 10 | / | 10 | 100 | 3.84 | 54.5 | N/A | N/A | 13.46 | 9.205 | 219.1 | 14.8 | 24.04 | 95% H-UCL | 24.04 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 8 | / | 10 | 80 | 0.426 | 1.77 | 0.24 | 0.739 | 1.18 | 1.25 | 0.194 | 0.44 | 1.32 | 95% KM (t) UCL | 1.32 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 10 | / | 10 | 100 | 12.7 | 120 | N/A | N/A | 38.04 | 29.75 | 917.3 | 30.29 | 61.62 | 95% Adjusted Gamma UCL | 61.62 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 9 | / | 10 | 90 | 1.87 | 6.79 | 1.85 | 1.85 | 3.544 | 3.19 | 2.842 | 1.686 | 4.353 | 95% KM (t) UCL | 4.353 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 8 | / | 10 | 80 | 32.9 | 146 | 8.67 | 23.9 | 82.08 | 76.85 | 1521 | 39 | 94.6 | 95% KM (t) UCL | 94.6 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 8 | / | 10 | 80 | 1.06 | 6.47 | 2.84 | 3.61 | 3.664 | 3.595 | 4.049 | 2.012 | 4.453 | 95% KM (t) UCL | 4.453 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 1 | / | 10 | 10 | 1.44 | 1.44 | 0.505 | 4.58 | 1.44 | 1.44 | N/A | N/A | -- | -- | 1.44 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 10 | 0 | N/A | N/A | 0.185 | 0.823 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 4 | / | 10 | 40 | 5.58 | 11.4 | 0.815 | 14.6 | 7.605 | 6.72 | 7.317 | 2.705 | -- | -- | 11.4 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 5 | / | 10 | 50 | 2.23 | 16.3 | 4.94 | 7.15 | 5.87 | 3.04 | 34.97 | 5.914 | 9.544 | 95% Gamma Adjusted KM-UCL | 9.544 | UCL |
| 2,3,4,7,8-pecdf | pg/g | 10 | / | 10 | 100 | 4.08 | 73.7 | N/A | N/A | 18.49 | 10.8 | 436 | 20.88 | 36.65 | 95% Adjusted Gamma UCL | 36.65 | UCL |
| 2,3,7,8-tcdd | pg/g | 0 | / | 10 | 0 | N/A | N/A | 0.229 | 5.48 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 9 | / | 10 | 90 | 26.3 | 117 | 304 | 304 | 70.37 | 70.6 | 808.6 | 28.44 | 87.74 | 95% KM (t) UCL | 87.74 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 10 | / | 10 | 100 | 13 | 29 | N/A | N/A | 21.2 | 20.5 | 26.84 | 5.181 | 24.2 | 95% Student's-t UCL | 24.2 | UCL |
| TOC by lloyd kahn | mg/kg | 53 | / | 53 | 100 | 2090 | 29600 | N/A | N/A | 16120 | 15800 | 45747987 | 6764 | 17676 | 95% Student's-t UCL | 17676 | UCL |
| **Reach C6 North** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 2 | / | 2 | 100 | 13.3 | 18.4 | N/A | N/A | 15.85 | 15.85 | 13 | 3.606 | -- | -- | 18.4 | Maximum Detect |
| Lead | mg/kg | 2 | / | 2 | 100 | 10.2 | 25.5 | N/A | N/A | 17.85 | 17.85 | 117 | 10.82 | -- | -- | 25.5 | Maximum Detect |
| Mercury | mg/kg | 23 | / | 23 | 100 | 0.027 | 3.4 | N/A | N/A | 0.878 | 0.31 | 1.28 | 1.131 | 1.56 | 95% Adjusted Gamma UCL | 1.56 | UCL |
| Vanadium | mg/kg | 2 | / | 2 | 100 | 13.3 | 27.2 | N/A | N/A | 20.25 | 20.25 | 96.6 | 9.829 | -- | -- | 27.2 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 16 | / | 23 | 70 | 0.04 | 5.2 | 0.037 | 0.074 | 1.75 | 1.41 | 3.049 | 1.746 | 1.826 | 95% KM (t) UCL | 1.826 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 23 | 0 | N/A | N/A | 0.036 | 0.44 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 23 | 0 | N/A | N/A | 0.037 | 0.44 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 23 | 0 | N/A | N/A | 0.036 | 0.44 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 4 | / | 23 | 17 | 0.13 | 0.48 | 0.036 | 0.44 | 0.268 | 0.23 | 0.0224 | 0.15 | -- | -- | 0.48 | Maximum Detect |
| Aroclor-1248 | mg/kg | 0 | / | 23 | 0 | N/A | N/A | 0.036 | 0.44 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/kg | 13 | / | 23 | 57 | 0.056 | 2.1 | 0.036 | 0.046 | 0.843 | 0.69 | 0.571 | 0.756 | 0.744 | 95% KM (t) UCL | 0.744 | UCL |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Aroclor-1260 | mg/kg | 16 | / | 23 | 70 | 0.04 | 3.1 | 0.036 | 0.039 | 0.906 | 0.61 | 0.875 | 0.935 | 1.161 | 95% Gamma Adjusted KM-UCL | 1.161 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.037 | 0.44 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 9 | / | 23 | 39 | 0.048 | 0.26 | 0.036 | 0.44 | 0.163 | 0.16 | 0.00393 | 0.0627 | 0.12 | 95% KM (t) UCL | 0.12 | UCL |
| BZ#105 | mg/kg | 6 | / | 6 | 100 | 0.02 | 0.13 | N/A | N/A | 0.0555 | 0.033 | 0.00203 | 0.045 | -- | -- | 0.13 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0036 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 6 | / | 6 | 100 | 0.035 | 0.22 | N/A | N/A | 0.106 | 0.07 | 0.00564 | 0.0751 | -- | -- | 0.22 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0036 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0036 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 6 | / | 6 | 100 | 0.071 | 0.31 | N/A | N/A | 0.18 | 0.145 | 0.0102 | 0.101 | -- | -- | 0.31 | Maximum Detect |
| BZ#156 | mg/kg | 6 | / | 6 | 100 | 0.0079 | 0.04 | N/A | N/A | 0.0198 | 0.014 | 0.00015344 | 0.0124 | -- | -- | 0.04 | Maximum Detect |
| BZ#157 | mg/kg | 2 | / | 6 | 33 | 0.0051 | 0.012 | 0.0036 | 0.016 | 0.00855 | 0.00855 | 2.3805E-05 | 0.00488 | -- | -- | 0.012 | Maximum Detect |
| BZ#167 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0073 | 0.032 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0036 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0036 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0036 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.0073 | 0.032 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 6 | / | 6 | 100 | 67 | 172 | N/A | N/A | 110.2 | 100.5 | 1539 | 39.23 | -- | -- | 172 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 2 | / | 6 | 33 | 36.8 | 98.5 | 18.9 | 49.6 | 67.65 | 67.65 | 1903 | 43.63 | -- | -- | 98.5 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 6 | / | 6 | 100 | 4.43 | 18 | N/A | N/A | 10.43 | 8.89 | 27.22 | 5.218 | -- | -- | 18 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 3 | / | 6 | 50 | 1.03 | 3.19 | 0.807 | 2.15 | 1.97 | 1.69 | 1.225 | 1.107 | -- | -- | 3.19 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 6 | / | 6 | 100 | 12.4 | 52.9 | N/A | N/A | 32.5 | 28.6 | 229.9 | 15.16 | -- | -- | 52.9 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 5 | / | 6 | 83 | 3.02 | 9.31 | 2.3 | 2.3 | 5.43 | 5.54 | 5.982 | 2.446 | -- | -- | 9.31 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 4 | / | 6 | 67 | 14.5 | 193 | 12.3 | 15.6 | 103.3 | 102.9 | 8136 | 90.2 | -- | -- | 193 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 1 | / | 6 | 17 | 5 | 5 | 2.23 | 7.81 | 5 | 5 | N/A | N/A | -- | -- | 5 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 0 | / | 6 | 0 | N/A | N/A | 1.07 | 2.77 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 6 | 0 | N/A | N/A | 0.409 | 2.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 3 | / | 6 | 50 | 9.04 | 16.9 | 3.84 | 8.82 | 12.01 | 10.1 | 18.19 | 4.265 | -- | -- | 16.9 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 5 | / | 6 | 83 | 2.63 | 13.4 | 6.73 | 6.73 | 6.52 | 4.96 | 17.52 | 4.186 | -- | -- | 13.4 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 6 | / | 6 | 100 | 6.43 | 32.3 | N/A | N/A | 17.62 | 16.95 | 73.78 | 8.59 | -- | -- | 32.3 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 0 | / | 6 | 0 | N/A | N/A | 0.632 | 1.47 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 6 | / | 6 | 100 | 26.8 | 437 | N/A | N/A | 139.7 | 33.05 | 31106 | 176.4 | -- | -- | 437 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 6 | / | 6 | 100 | 13 | 28 | N/A | N/A | 20 | 20.5 | 29.6 | 5.441 | -- | -- | 28 | Maximum Detect |
| TOC by lloyd kahn | mg/kg | 23 | / | 23 | 100 | 4850 | 65850 | N/A | N/A | 20183 | 17500 | 200400000 | 14157 | 26124 | 95% Adjusted Gamma UCL | 26124 | UCL |
| **Reach C6 South** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 2 | / | 2 | 100 | 7.6 | 10 | N/A | N/A | 8.8 | 8.8 | 2.88 | 1.697 | -- | -- | 10 | Maximum Detect |
| Lead | mg/kg | 2 | / | 2 | 100 | 13.2 | 14.3 | N/A | N/A | 13.75 | 13.75 | 0.605 | 0.778 | -- | -- | 14.3 | Maximum Detect |
| Mercury | mg/kg | 24 | / | 24 | 100 | 0.027 | 8.4 | N/A | N/A | 1.027 | 0.185 | 3.76 | 1.939 | 2.752 | 95% Chebyshev (Mean, Sd) UCL | 2.752 | UCL |
| Vanadium | mg/kg | 2 | / | 2 | 100 | 12.3 | 12.9 | N/A | N/A | 12.6 | 12.6 | 0.18 | 0.424 | -- | -- | 12.9 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 15 | / | 24 | 63 | 0.045 | 9.95 | 0.037 | 0.077 | 1.868 | 0.74 | 6.998 | 2.645 | 2.723 | 95% Gamma Adjusted KM-UCL | 2.723 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 24 | 0 | N/A | N/A | 0.037 | 0.47 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 24 | 0 | N/A | N/A | 0.037 | 0.79 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 24 | 0 | N/A | N/A | 0.037 | 0.47 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 2 | / | 24 | 8 | 0.2 | 0.5 | 0.037 | 0.46 | 0.35 | 0.35 | 0.045 | 0.212 | -- | -- | 0.5 | Maximum Detect |
| Aroclor-1248 | mg/kg | 1 | / | 24 | 4 | 1.6 | 1.6 | 0.037 | 0.47 | 1.6 | 1.6 | N/A | N/A | -- | -- | 1.6 | Maximum Detect |
| Aroclor-1254 | mg/kg | 12 | / | 24 | 50 | 0.044 | 4.4 | 0.037 | 0.044 | 0.951 | 0.43 | 1.571 | 1.253 | 0.846 | 95% KM (t) UCL | 0.846 | UCL |
| Aroclor-1260 | mg/kg | 15 | / | 24 | 63 | 0.045 | 4.5 | 0.037 | 0.044 | 0.953 | 0.52 | 1.464 | 1.21 | 1.283 | 95% Gamma Adjusted KM-UCL | 1.283 | UCL |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Aroclor-1262 | mg/kg | 0 | / | 21 | 0 | N/A | N/A | 0.037 | 0.47 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 7 | / | 24 | 29 | 0.066 | 0.55 | 0.037 | 0.11 | 0.261 | 0.2 | 0.0317 | 0.178 | 0.154 | 95% KM (t) UCL | 0.154 | UCL |
| BZ#105 | mg/kg | 4 | / | 4 | 100 | 0.022 | 0.095 | N/A | N/A | 0.0508 | 0.043 | 0.00097092 | 0.0312 | -- | -- | 0.095 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0044 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 4 | / | 4 | 100 | 0.041 | 0.17 | N/A | N/A | 0.0953 | 0.085 | 0.00291 | 0.054 | -- | -- | 0.17 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0044 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0044 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 4 | / | 4 | 100 | 0.08 | 0.32 | N/A | N/A | 0.185 | 0.17 | 0.00997 | 0.0998 | -- | -- | 0.32 | Maximum Detect |
| BZ#156 | mg/kg | 4 | / | 4 | 100 | 0.0087 | 0.034 | N/A | N/A | 0.0189 | 0.0165 | 0.00011469 | 0.0107 | -- | -- | 0.034 | Maximum Detect |
| BZ#157 | mg/kg | 1 | / | 4 | 25 | 0.0056 | 0.0056 | 0.0044 | 0.018 | 0.0056 | 0.0056 | N/A | N/A | -- | -- | 0.0056 | Maximum Detect |
| BZ#167 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0089 | 0.037 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0044 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0044 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0044 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0089 | 0.037 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 4 | / | 4 | 100 | 25.6 | 296 | N/A | N/A | 130.2 | 99.5 | 14279 | 119.5 | -- | -- | 296 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 3 | / | 4 | 75 | 25.2 | 156 | 18.5 | 18.5 | 75.87 | 46.4 | 4928 | 70.2 | -- | -- | 156 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 4 | / | 4 | 100 | 3.4 | 32.1 | N/A | N/A | 12.67 | 7.595 | 176.5 | 13.29 | -- | -- | 32.1 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 3 | / | 4 | 75 | 0.787 | 2.62 | 1.01 | 1.01 | 1.902 | 2.3 | 0.959 | 0.979 | -- | -- | 2.62 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 4 | / | 4 | 100 | 13 | 97.4 | N/A | N/A | 43.03 | 30.85 | 1500 | 38.73 | -- | -- | 97.4 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 3 | / | 4 | 75 | 2.39 | 12.2 | 1.23 | 1.23 | 6.463 | 4.8 | 26.13 | 5.112 | -- | -- | 12.2 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 4 | / | 4 | 100 | 4.61 | 372 | N/A | N/A | 163.8 | 139.3 | 26820 | 163.8 | -- | -- | 372 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 3 | / | 4 | 75 | 2.22 | 8.21 | 1.07 | 1.07 | 5.443 | 5.9 | 9.126 | 3.021 | -- | -- | 8.21 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 1 | / | 4 | 25 | 0.463 | 0.463 | 0.769 | 4.57 | 0.463 | 0.463 | N/A | N/A | -- | -- | 0.463 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 4 | 0 | N/A | N/A | 0.233 | 1.99 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 3 | / | 4 | 75 | 4.38 | 1140 | 780 | 780 | 383 | 4.56 | 429809 | 655.6 | -- | -- | 1140 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 3 | / | 4 | 75 | 2.77 | 6.9 | 15.5 | 15.5 | 4.233 | 3.03 | 5.35 | 2.313 | -- | -- | 6.9 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 3 | / | 4 | 75 | 6.26 | 23.7 | 15.3 | 15.3 | 13.06 | 9.23 | 87.06 | 9.331 | -- | -- | 23.7 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 0 | / | 4 | 0 | N/A | N/A | 0.168 | 13.9 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 3 | / | 4 | 75 | 16.6 | 108 | 602 | 602 | 57.4 | 47.6 | 2161 | 46.48 | -- | -- | 108 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 4 | / | 4 | 100 | 11 | 29 | N/A | N/A | 21 | 22 | 58 | 7.616 | -- | -- | 29 | Maximum Detect |
| TOC by lloyd kahn | mg/kg | 24 | / | 24 | 100 | 2805 | 93700 | N/A | N/A | 20850 | 15400 | 370800000 | 19256 | 28172 | 95% Adjusted Gamma UCL | 28172 | UCL |
| **Reach C6 Riparian** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 1 | / | 1 | 100 | 18.4 | 18.4 | N/A | N/A | 18.4 | 18.4 | N/A | N/A | -- | -- | 18.4 | Maximum Detect |
| Lead | mg/kg | 1 | / | 1 | 100 | 25.5 | 25.5 | N/A | N/A | 25.5 | 25.5 | N/A | N/A | -- | -- | 25.5 | Maximum Detect |
| Mercury | mg/kg | 29 | / | 29 | 100 | 0.035 | 8.4 | N/A | N/A | 1.273 | 0.61 | 3.348 | 1.83 | 2.007 | 95% Adjusted Gamma UCL | 2.007 | UCL |
| Vanadium | mg/kg | 1 | / | 1 | 100 | 13.3 | 13.3 | N/A | N/A | 13.3 | 13.3 | N/A | N/A | -- | -- | 13.3 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 24 | / | 29 | 83 | 0.04 | 9.95 | 0.038 | 0.074 | 1.839 | 1.065 | 5.003 | 2.237 | 2.587 | 95% Gamma Adjusted KM-UCL | 2.587 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 29 | 0 | N/A | N/A | 0.036 | 0.47 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 29 | 0 | N/A | N/A | 0.038 | 0.79 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 29 | 0 | N/A | N/A | 0.036 | 0.47 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 6 | / | 29 | 21 | 0.13 | 0.5 | 0.036 | 0.46 | 0.295 | 0.23 | 0.0242 | 0.156 | 0.135 | 95% KM (t) UCL | 0.135 | UCL |
| Aroclor-1248 | mg/kg | 1 | / | 29 | 3 | 1.6 | 1.6 | 0.036 | 0.47 | 1.6 | 1.6 | N/A | N/A | -- | -- | 1.6 | Maximum Detect |
| Aroclor-1254 | mg/kg | 19 | / | 29 | 66 | 0.056 | 4.4 | 0.036 | 0.046 | 0.925 | 0.69 | 1.075 | 1.037 | 1.096 | 95% Gamma Adjusted KM-UCL | 1.096 | UCL |
| Aroclor-1260 | mg/kg | 24 | / | 29 | 83 | 0.04 | 4.5 | 0.036 | 0.044 | 0.911 | 0.62 | 1.052 | 1.026 | 1.235 | 95% Gamma Adjusted KM-UCL | 1.235 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 25 | 0 | N/A | N/A | 0.038 | 0.47 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Aroclor-1268 | mg/kg | 15 | / | 29 | 52 | 0.048 | 0.55 | 0.036 | 0.11 | 0.211 | 0.17 | 0.0181 | 0.135 | 0.183 | 95% GROS Adjusted Gamma UCL | 0.183 | UCL |
| BZ#105 | mg/kg | 9 | / | 9 | 100 | 0.02 | 0.095 | N/A | N/A | 0.0451 | 0.038 | 0.00082711 | 0.0288 | 0.0738 | 95% Adjusted Gamma UCL | 0.0738 | UCL |
| BZ#114 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0036 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 9 | / | 9 | 100 | 0.035 | 0.18 | N/A | N/A | 0.0884 | 0.071 | 0.00271 | 0.052 | 0.141 | 95% Adjusted Gamma UCL | 0.141 | UCL |
| BZ#123 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0036 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0036 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 9 | / | 9 | 100 | 0.071 | 0.32 | N/A | N/A | 0.169 | 0.16 | 0.00819 | 0.0905 | 0.225 | 95% Student's-t UCL | 0.225 | UCL |
| BZ#156 | mg/kg | 9 | / | 9 | 100 | 0.0079 | 0.034 | N/A | N/A | 0.0172 | 0.014 | 8.0552E-05 | 0.00898 | 0.0227 | 95% Student's-t UCL | 0.0227 | UCL |
| BZ#157 | mg/kg | 3 | / | 9 | 33 | 0.0051 | 0.012 | 0.0036 | 0.018 | 0.00757 | 0.0056 | 1.4803E-05 | 0.00385 | -- | -- | 0.012 | Maximum Detect |
| BZ#167 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0073 | 0.037 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0036 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0036 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0036 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0073 | 0.037 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 9 | / | 9 | 100 | 25.6 | 296 | N/A | N/A | 112.2 | 89.9 | 6033 | 77.67 | 160.4 | 95% Student's-t UCL | 160.4 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 4 | / | 9 | 44 | 25.2 | 156 | 18.5 | 49.6 | 66.1 | 41.6 | 3667 | 60.56 | -- | -- | 156 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 9 | / | 9 | 100 | 3.4 | 32.1 | N/A | N/A | 10.89 | 7.38 | 82.64 | 9.091 | 20.21 | 95% Adjusted Gamma UCL | 20.21 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 5 | / | 9 | 56 | 0.787 | 2.62 | 0.807 | 2.15 | 1.685 | 1.69 | 0.622 | 0.789 | 1.827 | 95% KM (t) UCL | 1.827 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 9 | / | 9 | 100 | 12.4 | 97.4 | N/A | N/A | 34.91 | 27.2 | 703.1 | 26.52 | 51.35 | 95% Student's-t UCL | 51.35 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 7 | / | 9 | 78 | 2.39 | 12.2 | 1.23 | 2.3 | 5.319 | 4.8 | 10.71 | 3.273 | 8.555 | 95% KM Adjusted Gamma UCL | 8.555 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 7 | / | 9 | 78 | 4.61 | 372 | 12.3 | 15.6 | 128.6 | 66.6 | 18471 | 135.9 | 183.2 | 95% KM (t) UCL | 183.2 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 4 | / | 9 | 44 | 2.22 | 8.21 | 1.07 | 6.06 | 5.333 | 5.45 | 6.133 | 2.477 | -- | -- | 8.21 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 1 | / | 9 | 11 | 0.463 | 0.463 | 0.769 | 4.57 | 0.463 | 0.463 | N/A | N/A | -- | -- | 0.463 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 9 | 0 | N/A | N/A | 0.233 | 2.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 5 | / | 9 | 56 | 4.38 | 1140 | 3.84 | 780 | 233.6 | 9.04 | 256735 | 506.7 | 383.7 | 95% KM Bootstrap t UCL | 383.7 | UCL |
| 2,3,4,6,7,8-hxcdf | pg/g | 7 | / | 9 | 78 | 2.63 | 7.25 | 6.73 | 15.5 | 4.557 | 4.36 | 3.697 | 1.923 | 5.686 | 95% KM (t) UCL | 5.686 | UCL |
| 2,3,4,7,8-pecdf | pg/g | 8 | / | 9 | 89 | 6.26 | 23.7 | 15.3 | 15.3 | 14.08 | 14.3 | 41.35 | 6.43 | 17.66 | 95% KM (t) UCL | 17.66 | UCL |
| 2,3,7,8-tcdd | pg/g | 0 | / | 9 | 0 | N/A | N/A | 0.168 | 13.9 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 8 | / | 9 | 89 | 16.6 | 437 | 602 | 602 | 91.4 | 33.05 | 20301 | 142.5 | 311 | 95% KM (Chebyshev) UCL | 311 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 9 | / | 9 | 100 | 11 | 29 | N/A | N/A | 20.44 | 21 | 40.53 | 6.366 | 24.39 | 95% Student's-t UCL | 24.39 | UCL |
| TOC by lloyd kahn | mg/kg | 29 | / | 29 | 100 | 4370 | 65850 | N/A | N/A | 21279 | 17500 | 205200000 | 14324 | 26363 | 95% Adjusted Gamma UCL | 26363 | UCL |
| **Reach C7 North** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 7 | / | 7 | 100 | 6.9 | 22.2 | N/A | N/A | 12.07 | 8.1 | 41.23 | 6.421 | -- | -- | 22.2 | Maximum Detect |
| Lead | mg/kg | 7 | / | 7 | 100 | 13 | 39.4 | N/A | N/A | 21.39 | 18.1 | 97.14 | 9.856 | -- | -- | 39.4 | Maximum Detect |
| Mercury | mg/kg | 38 | / | 40 | 95 | 0.011 | 2.2 | 0.0068 | 0.02 | 0.246 | 0.0795 | 0.198 | 0.445 | 0.536 | 95% KM (Chebyshev) UCL | 0.536 | UCL |
| Vanadium | mg/kg | 7 | / | 7 | 100 | 9.7 | 28.8 | N/A | N/A | 16.96 | 14.3 | 55.51 | 7.45 | -- | -- | 28.8 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 39 | / | 91 | 43 | 0.038 | 8.39 | 0.034 | 0.08 | 0.642 | 0.1 | 2.009 | 1.417 | 0.741 | 95% KM (Chebyshev) UCL | 0.741 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 91 | 0 | N/A | N/A | 0.034 | 0.39 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 91 | 0 | N/A | N/A | 0.034 | 0.39 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 91 | 0 | N/A | N/A | 0.034 | 0.39 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 2 | / | 91 | 2 | 0.078 | 0.16 | 0.034 | 0.39 | 0.119 | 0.119 | 0.00336 | 0.058 | -- | -- | 0.16 | Maximum Detect |
| Aroclor-1248 | mg/kg | 5 | / | 91 | 5 | 0.13 | 0.58 | 0.034 | 0.14 | 0.27 | 0.22 | 0.0316 | 0.178 | 0.0298 | 95% GROS Approximate Gamma UCL | 0.0298 | UCL |
| Aroclor-1254 | mg/kg | 15 | / | 91 | 16 | 0.045 | 3.3 | 0.034 | 0.079 | 0.582 | 0.35 | 0.655 | 0.809 | 0.227 | 95% KM Approximate Gamma UCL | 0.227 | UCL |
| Aroclor-1260 | mg/kg | 39 | / | 91 | 43 | 0.038 | 3.8 | 0.034 | 0.079 | 0.337 | 0.0985 | 0.408 | 0.639 | 0.367 | 95% KM (Chebyshev) UCL | 0.367 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 78 | 0 | N/A | N/A | 0.034 | 0.39 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 11 | / | 88 | 13 | 0.041 | 0.71 | 0.034 | 0.081 | 0.152 | 0.1 | 0.0365 | 0.191 | 0.0341 | 95% GROS Approximate Gamma UCL | 0.0341 | UCL |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| BZ#105 | mg/kg | 5 | / | 9 | 56 | 0.0029 | 0.022 | 0.0014 | 0.0017 | 0.0106 | 0.0068 | 7.8673E-05 | 0.00887 | 0.0117 | 95% KM (t) UCL | 0.0117 | UCL |
| BZ#114 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0014 | 0.0034 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 7 | / | 9 | 78 | 0.0019 | 0.044 | 0.0014 | 0.0015 | 0.0155 | 0.0073 | 0.00026377 | 0.0162 | 0.022 | 95% KM (t) UCL | 0.022 | UCL |
| BZ#123 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0014 | 0.0034 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 1 | / | 9 | 11 | 0.0027 | 0.0027 | 0.0014 | 0.0034 | 0.0027 | 0.0027 | N/A | N/A | -- | -- | 0.0027 | Maximum Detect |
| BZ#153 | mg/kg | 7 | / | 9 | 78 | 0.0052 | 0.085 | 0.0028 | 0.003 | 0.0343 | 0.02 | 0.00086129 | 0.0293 | 0.0456 | 95% KM (t) UCL | 0.0456 | UCL |
| BZ#156 | mg/kg | 4 | / | 9 | 44 | 0.0023 | 0.0088 | 0.0014 | 0.0017 | 0.0056 | 0.00565 | 8.0867E-06 | 0.00284 | -- | -- | 0.0088 | Maximum Detect |
| BZ#157 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0014 | 0.0034 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0028 | 0.0068 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0014 | 0.0034 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0014 | 0.0034 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 1 | / | 9 | 11 | 0.0019 | 0.0019 | 0.0014 | 0.0034 | 0.0019 | 0.0019 | N/A | N/A | -- | -- | 0.0019 | Maximum Detect |
| BZ#81 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0028 | 0.0068 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 9 | / | 9 | 100 | 11.8 | 86.8 | N/A | N/A | 55.22 | 55.1 | 602.2 | 24.54 | 70.43 | 95% Student's-t UCL | 70.43 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 6 | / | 9 | 67 | 4.7 | 25.9 | 0.34 | 5.9 | 12.85 | 12.31 | 61.6 | 7.848 | 14.43 | 95% KM (t) UCL | 14.43 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 7 | / | 9 | 78 | 0.25 | 5.7 | 0.2 | 1.05 | 2.314 | 1.8 | 3.542 | 1.882 | 3.057 | 95% KM (t) UCL | 3.057 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 8 | / | 9 | 89 | 0.19 | 1.21 | 0.92 | 0.92 | 0.785 | 0.7 | 0.152 | 0.39 | 1.001 | 95% KM (t) UCL | 1.001 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 7 | / | 9 | 78 | 2.9 | 21.1 | 0.082 | 0.99 | 8.501 | 7.94 | 42.17 | 6.494 | 10.88 | 95% KM (t) UCL | 10.88 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 8 | / | 9 | 89 | 0.195 | 2.35 | 1.9 | 1.9 | 1.281 | 1.28 | 0.58 | 0.761 | 1.721 | 95% KM (t) UCL | 1.721 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 8 | / | 9 | 89 | 1.12 | 64.1 | 0.25 | 0.25 | 20.93 | 10.3 | 715.3 | 26.74 | 67.87 | 95% Gamma Adjusted KM-UCL | 67.87 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 9 | / | 9 | 100 | 0.316 | 2.7 | N/A | N/A | 1.551 | 1.7 | 0.567 | 0.753 | 2.017 | 95% Student's-t UCL | 2.017 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 0 | / | 9 | 0 | N/A | N/A | 0.11 | 1.17 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 9 | 0 | N/A | N/A | 0.093 | 1.62 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 4 | / | 9 | 44 | 0.4 | 4.32 | 0.13 | 101 | 2.158 | 1.955 | 2.663 | 1.632 | -- | -- | 4.32 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 5 | / | 9 | 56 | 0.7 | 3.6 | 0.097 | 1.23 | 1.796 | 1.7 | 1.239 | 1.113 | 1.851 | 95% KM (t) UCL | 1.851 | UCL |
| 2,3,4,7,8-pecdf | pg/g | 7 | / | 9 | 78 | 0.66 | 9.3 | 0.14 | 4.73 | 3.94 | 2.51 | 9.788 | 3.129 | 5.266 | 95% KM (t) UCL | 5.266 | UCL |
| 2,3,7,8-tcdd | pg/g | 0 | / | 9 | 0 | N/A | N/A | 0.092 | 0.39 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 7 | / | 9 | 78 | 1.24 | 24.1 | 0.58 | 4.32 | 10.29 | 6.81 | 77.3 | 8.792 | 13.74 | 95% KM (t) UCL | 13.74 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 4 | / | 4 | 100 | 18 | 23 | N/A | N/A | 21 | 21.5 | 4.667 | 2.16 | -- | -- | 23 | Maximum Detect |
| TOC by lloyd kahn | mg/kg | 91 | / | 91 | 100 | 1980 | 55300 | N/A | N/A | 14101 | 11300 | 77989828 | 8831 | 15575 | 95% Approximate Gamma UCL | 15575 | UCL |
| **Reach C7 South** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 10 | / | 10 | 100 | 4.3 | 42 | N/A | N/A | 21.54 | 21.45 | 189 | 13.75 | 29.51 | 95% Student's-t UCL | 29.51 | UCL |
| Lead | mg/kg | 10 | / | 10 | 100 | 9.95 | 32.1 | N/A | N/A | 20.22 | 21.4 | 62.77 | 7.923 | 24.81 | 95% Student's-t UCL | 24.81 | UCL |
| Mercury | mg/kg | 52 | / | 52 | 100 | 0.0075 | 8.4 | N/A | N/A | 0.689 | 0.057 | 3.079 | 1.755 | 1.75 | 95% Chebyshev (Mean, Sd) UCL | 1.75 | UCL |
| Vanadium | mg/kg | 10 | / | 10 | 100 | 5.85 | 45.4 | N/A | N/A | 21.89 | 14.85 | 189.9 | 13.78 | 29.87 | 95% Student's-t UCL | 29.87 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 40 | / | 103 | 39 | 0.043 | 9.9 | 0.035 | 0.08 | 1.568 | 0.321 | 5.592 | 2.365 | 1.342 | 95% KM (Chebyshev) UCL | 1.342 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 103 | 0 | N/A | N/A | 0.034 | 0.89 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 103 | 0 | N/A | N/A | 0.034 | 1.6 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 103 | 0 | N/A | N/A | 0.034 | 0.89 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 6 | / | 103 | 6 | 0.047 | 0.81 | 0.034 | 0.89 | 0.405 | 0.4 | 0.0907 | 0.301 | 0.0766 | 95% KM (t) UCL | 0.0766 | UCL |
| Aroclor-1248 | mg/kg | 0 | / | 103 | 0 | N/A | N/A | 0.034 | 0.89 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/kg | 19 | / | 103 | 18 | 0.058 | 5.2 | 0.035 | 0.38 | 1.182 | 0.9 | 2.039 | 1.428 | 0.432 | 95% KM Approximate Gamma UCL | 0.432 | UCL |
| Aroclor-1260 | mg/kg | 40 | / | 103 | 39 | 0.0425 | 5.2 | 0.035 | 0.041 | 0.895 | 0.205 | 1.72 | 1.311 | 0.765 | 95% KM (Chebyshev) UCL | 0.765 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 90 | 0 | N/A | N/A | 0.034 | 0.89 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 12 | / | 103 | 12 | 0.039 | 0.65 | 0.034 | 0.89 | 0.187 | 0.13 | 0.035 | 0.187 | 0.067 | 95% KM (t) UCL | 0.067 | UCL |
| BZ#105 | mg/kg | 6 | / | 9 | 67 | 0.0023 | 0.12 | 0.0014 | 0.0016 | 0.0391 | 0.0047 | 0.00305 | 0.0553 | 0.129 | 97.5% KM (Chebyshev) UCL | 0.129 | UCL |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| BZ#114 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 7 | / | 9 | 78 | 0.0026 | 0.23 | 0.0014 | 0.0015 | 0.0644 | 0.0095 | 0.01 | 0.1 | 0.243 | 97.5% KM (Chebyshev) UCL | 0.243 | UCL |
| BZ#123 | mg/kg | 1 | / | 9 | 11 | 0.0041 | 0.0041 | 0.0014 | 0.017 | 0.0041 | 0.0041 | N/A | N/A | -- | -- | 0.0041 | Maximum Detect |
| BZ#126 | mg/kg | 3 | / | 9 | 33 | 0.002 | 0.044 | 0.0014 | 0.017 | 0.0162 | 0.0025 | 0.00058108 | 0.0241 | -- | -- | 0.044 | Maximum Detect |
| BZ#153 | mg/kg | 8 | / | 9 | 89 | 0.0032 | 0.37 | 0.0028 | 0.0028 | 0.0997 | 0.016 | 0.0259 | 0.161 | 0.456 | 95% Gamma Adjusted KM-UCL | 0.456 | UCL |
| BZ#156 | mg/kg | 4 | / | 9 | 44 | 0.0019 | 0.042 | 0.0014 | 0.0016 | 0.0204 | 0.0189 | 0.00044509 | 0.0211 | -- | -- | 0.042 | Maximum Detect |
| BZ#157 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 1 | / | 9 | 11 | 0.0031 | 0.0031 | 0.0028 | 0.035 | 0.0031 | 0.0031 | N/A | N/A | -- | -- | 0.0031 | Maximum Detect |
| BZ#169 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 1 | / | 9 | 11 | 0.012 | 0.012 | 0.0014 | 0.017 | 0.012 | 0.012 | N/A | N/A | -- | -- | 0.012 | Maximum Detect |
| BZ#81 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0028 | 0.035 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 9 | / | 9 | 100 | 17.7 | 250 | N/A | N/A | 83.1 | 55.2 | 5745 | 75.8 | 165.5 | 95% Adjusted Gamma UCL | 165.5 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 5 | / | 9 | 56 | 2.7 | 109 | 0.93 | 7.8 | 39.73 | 6.24 | 2476 | 49.76 | 49.2 | 95% KM (t) UCL | 49.2 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 4 | / | 9 | 44 | 0.18 | 24.3 | 0.17 | 2.15 | 10.97 | 9.7 | 153.1 | 12.37 | -- | -- | 24.3 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 7 | / | 9 | 78 | 0.25 | 2.51 | 0.75 | 1 | 1.137 | 0.9 | 0.718 | 0.847 | 1.501 | 95% KM (t) UCL | 1.501 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 8 | / | 9 | 89 | 0.59 | 86.7 | 0.34 | 0.34 | 20.03 | 4.13 | 1054 | 32.46 | 92.33 | 95% Gamma Adjusted KM-UCL | 92.33 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 7 | / | 9 | 78 | 0.37 | 10 | 1.02 | 1.52 | 3.083 | 1.1 | 15.63 | 3.953 | 7.862 | 95% KM (Chebyshev) UCL | 7.862 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 7 | / | 9 | 78 | 1.26 | 365 | 0.986 | 1.88 | 69.18 | 17.8 | 17468 | 132.2 | 426.1 | 95% Gamma Adjusted KM-UCL | 426.1 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 9 | / | 9 | 100 | 0.49 | 5.42 | N/A | N/A | 2.228 | 1.9 | 2.371 | 1.54 | 3.182 | 95% Student's-t UCL | 3.182 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 1 | / | 9 | 11 | 1.41 | 1.41 | 0.121 | 4.4 | 1.41 | 1.41 | N/A | N/A | -- | -- | 1.41 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 1 | / | 9 | 11 | 0.969 | 0.969 | 0.0989 | 0.8 | 0.969 | 0.969 | N/A | N/A | -- | -- | 0.969 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 2 | / | 9 | 22 | 11.5 | 23.6 | 0.47 | 3.4 | 17.55 | 17.55 | 73.21 | 8.556 | -- | -- | 23.6 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 4 | / | 9 | 44 | 0.3 | 13.7 | 0.26 | 1.58 | 6.6 | 6.2 | 51.8 | 7.197 | -- | -- | 13.7 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 6 | / | 9 | 67 | 1.3 | 37.1 | 0.48 | 3.5 | 9.767 | 2.45 | 201.1 | 14.18 | 36.5 | 95% Gamma Adjusted KM-UCL | 36.5 | UCL |
| 2,3,7,8-tcdd | pg/g | 1 | / | 9 | 11 | 0.441 | 0.441 | 0.101 | 0.73 | 0.441 | 0.441 | N/A | N/A | -- | -- | 0.441 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 9 | / | 9 | 100 | 1.28 | 683 | N/A | N/A | 87.99 | 3.8 | 50217 | 224.1 | 539.8 | 95% Adjusted Gamma UCL | 539.8 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 3 | / | 3 | 100 | 17 | 22 | N/A | N/A | 19 | 18 | 7 | 2.646 | -- | -- | 22 | Maximum Detect |
| TOC by lloyd kahn | mg/kg | 103 | / | 103 | 100 | 1100 | 37300 | N/A | N/A | 12754 | 10700 | 46746394 | 6837 | 13947 | 95% Approximate Gamma UCL | 13947 | UCL |
| **Reach C7 Riparian** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 5 | / | 5 | 100 | 7.4 | 27.8 | N/A | N/A | 13.54 | 8.7 | 72.58 | 8.52 | -- | -- | 27.8 | Maximum Detect |
| Lead | mg/kg | 5 | / | 5 | 100 | 11 | 32.1 | N/A | N/A | 18.94 | 13.9 | 78.67 | 8.87 | -- | -- | 32.1 | Maximum Detect |
| Mercury | mg/kg | 12 | / | 13 | 92 | 0.055 | 7.6 | 0.02 | 0.02 | 2.008 | 0.97 | 5.651 | 2.377 | 3.016 | 95% KM (t) UCL | 3.016 | UCL |
| Vanadium | mg/kg | 5 | / | 5 | 100 | 9.7 | 15.4 | N/A | N/A | 12.86 | 14.2 | 6.243 | 2.499 | -- | -- | 15.4 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 33 | / | 37 | 89 | 0.054 | 9.9 | 0.037 | 0.072 | 1.946 | 1.64 | 5.215 | 2.284 | 2.619 | 95% Gamma Adjusted KM-UCL | 2.619 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 37 | 0 | N/A | N/A | 0.034 | 0.77 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 37 | 0 | N/A | N/A | 0.034 | 1.6 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 37 | 0 | N/A | N/A | 0.034 | 0.77 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 7 | / | 37 | 19 | 0.047 | 0.81 | 0.034 | 0.77 | 0.338 | 0.16 | 0.0963 | 0.31 | 0.151 | 95% KM (t) UCL | 0.151 | UCL |
| Aroclor-1248 | mg/kg | 5 | / | 37 | 14 | 0.13 | 0.58 | 0.034 | 0.77 | 0.27 | 0.22 | 0.0316 | 0.178 | 0.0692 | 95% GROS Adjusted Gamma UCL | 0.0692 | UCL |
| Aroclor-1254 | mg/kg | 20 | / | 37 | 54 | 0.06 | 5.2 | 0.035 | 0.38 | 1.103 | 0.9 | 1.54 | 1.241 | 1.073 | 95% Gamma Adjusted KM-UCL | 1.073 | UCL |
| Aroclor-1260 | mg/kg | 33 | / | 37 | 89 | 0.0425 | 4.7 | 0.035 | 0.04 | 1.065 | 0.73 | 1.462 | 1.209 | 1.415 | 95% Gamma Adjusted KM-UCL | 1.415 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 29 | 0 | N/A | N/A | 0.034 | 0.77 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 15 | / | 34 | 44 | 0.039 | 0.71 | 0.034 | 0.77 | 0.231 | 0.15 | 0.0426 | 0.206 | 0.177 | 95% GROS Adjusted Gamma UCL | 0.177 | UCL |
| BZ#105 | mg/kg | 4 | / | 5 | 80 | 0.0029 | 0.12 | 0.0015 | 0.0015 | 0.0569 | 0.0524 | 0.00383 | 0.0619 | -- | -- | 0.12 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 5 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| BZ#118 | mg/kg | 4 | / | 5 | 80 | 0.0057 | 0.23 | 0.0015 | 0.0015 | 0.109 | 0.0998 | 0.0139 | 0.118 | -- | -- | 0.23 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 5 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 2 | / | 5 | 40 | 0.002 | 0.044 | 0.0015 | 0.017 | 0.023 | 0.023 | 0.000882 | 0.0297 | -- | -- | 0.044 | Maximum Detect |
| BZ#153 | mg/kg | 5 | / | 5 | 100 | 0.0032 | 0.37 | N/A | N/A | 0.151 | 0.018 | 0.0364 | 0.191 | -- | -- | 0.37 | Maximum Detect |
| BZ#156 | mg/kg | 3 | / | 5 | 60 | 0.0019 | 0.042 | 0.0015 | 0.0015 | 0.0263 | 0.035 | 0.00045877 | 0.0214 | -- | -- | 0.042 | Maximum Detect |
| BZ#157 | mg/kg | 0 | / | 5 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0 | / | 5 | 0 | N/A | N/A | 0.0029 | 0.035 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 5 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 5 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 5 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 5 | 0 | N/A | N/A | 0.0029 | 0.035 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 5 | / | 5 | 100 | 17.7 | 250 | N/A | N/A | 108.6 | 55.1 | 9457 | 97.25 | -- | -- | 250 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 2 | / | 5 | 40 | 76.5 | 109 | 0.93 | 7.8 | 92.75 | 92.75 | 528.1 | 22.98 | -- | -- | 109 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 4 | / | 5 | 80 | 0.18 | 24.3 | 2.15 | 2.15 | 11.03 | 9.815 | 151.6 | 12.31 | -- | -- | 24.3 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 4 | / | 5 | 80 | 0.25 | 2.51 | 1 | 1 | 1.395 | 1.41 | 1.188 | 1.09 | -- | -- | 2.51 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 5 | / | 5 | 100 | 0.59 | 86.7 | N/A | N/A | 30.56 | 7.38 | 1472 | 38.36 | -- | -- | 86.7 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 4 | / | 5 | 80 | 0.37 | 10 | 1.52 | 1.52 | 4.763 | 4.34 | 22.44 | 4.737 | -- | -- | 10 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 5 | / | 5 | 100 | 1.12 | 365 | N/A | N/A | 91.17 | 21.8 | 24082 | 155.2 | -- | -- | 365 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 5 | / | 5 | 100 | 0.49 | 5.42 | N/A | N/A | 2.694 | 2.17 | 3.979 | 1.995 | -- | -- | 5.42 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 1 | / | 5 | 20 | 1.41 | 1.41 | 0.18 | 4.4 | 1.41 | 1.41 | N/A | N/A | -- | -- | 1.41 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 1 | / | 5 | 20 | 0.969 | 0.969 | 0.19 | 0.8 | 0.969 | 0.969 | N/A | N/A | -- | -- | 0.969 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 3 | / | 5 | 60 | 1.69 | 23.6 | 0.5 | 1.1 | 12.26 | 11.5 | 120.4 | 10.97 | -- | -- | 23.6 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 2 | / | 5 | 40 | 11.9 | 13.7 | 0.27 | 1.58 | 12.8 | 12.8 | 1.62 | 1.273 | -- | -- | 13.7 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 4 | / | 5 | 80 | 2.51 | 37.1 | 0.51 | 0.51 | 13.95 | 8.1 | 265.2 | 16.29 | -- | -- | 37.1 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 1 | / | 5 | 20 | 0.441 | 0.441 | 0.15 | 0.73 | 0.441 | 0.441 | N/A | N/A | -- | -- | 0.441 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 5 | / | 5 | 100 | 2.1 | 683 | N/A | N/A | 155.5 | 22.7 | 87596 | 296 | -- | -- | 683 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 1 | / | 1 | 100 | 22 | 22 | N/A | N/A | 22 | 22 | N/A | N/A | -- | -- | 22 | Maximum Detect |
| TOC by lloyd kahn | mg/kg | 37 | / | 37 | 100 | 1100 | 37300 | N/A | N/A | 16635 | 17200 | 62503614 | 7906 | 18830 | 95% Student's-t UCL | 18830 | UCL |
| **Reach C8 North** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 3 | / | 3 | 100 | 14.2 | 23.7 | N/A | N/A | 18.33 | 17.1 | 23.7 | 4.869 | -- | -- | 23.7 | Maximum Detect |
| Lead | mg/kg | 3 | / | 3 | 100 | 18.6 | 29.5 | N/A | N/A | 24.98 | 26.85 | 32.32 | 5.685 | -- | -- | 29.5 | Maximum Detect |
| Mercury | mg/kg | 6 | / | 6 | 100 | 0.017 | 4.65 | N/A | N/A | 0.951 | 0.0325 | 3.421 | 1.85 | -- | -- | 4.65 | Maximum Detect |
| Vanadium | mg/kg | 3 | / | 3 | 100 | 10.6 | 22.8 | N/A | N/A | 15.72 | 13.75 | 40.11 | 6.333 | -- | -- | 22.8 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 18 | / | 24 | 75 | 0.038 | 5.46 | 0.035 | 0.038 | 1.389 | 0.775 | 2.49 | 1.578 | 1.914 | 95% Gamma Adjusted KM-UCL | 1.914 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 24 | 0 | N/A | N/A | 0.035 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 24 | 0 | N/A | N/A | 0.035 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 24 | 0 | N/A | N/A | 0.035 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 1 | / | 24 | 4 | 0.2 | 0.2 | 0.035 | 0.41 | 0.2 | 0.2 | N/A | N/A | -- | -- | 0.2 | Maximum Detect |
| Aroclor-1248 | mg/kg | 0 | / | 24 | 0 | N/A | N/A | 0.035 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/kg | 12 | / | 24 | 50 | 0.042 | 2.4 | 0.035 | 0.038 | 0.812 | 0.65 | 0.505 | 0.711 | 0.65 | 95% KM (t) UCL | 0.65 | UCL |
| Aroclor-1260 | mg/kg | 18 | / | 24 | 75 | 0.038 | 2.6 | 0.035 | 0.038 | 0.732 | 0.455 | 0.614 | 0.784 | 0.819 | 95% KM (t) UCL | 0.819 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 24 | 0 | N/A | N/A | 0.035 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 11 | / | 24 | 46 | 0.041 | 0.46 | 0.035 | 0.41 | 0.184 | 0.14 | 0.0184 | 0.135 | 0.149 | 95% KM (t) UCL | 0.149 | UCL |
| BZ#105 | mg/kg | 2 | / | 2 | 100 | 0.025 | 0.079 | N/A | N/A | 0.052 | 0.052 | 0.00146 | 0.0382 | -- | -- | 0.079 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0029 | 0.014 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 2 | / | 2 | 100 | 0.046 | 0.165 | N/A | N/A | 0.106 | 0.106 | 0.00708 | 0.0841 | -- | -- | 0.165 | Maximum Detect |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| BZ#123 | mg/kg | 1 | / | 2 | 50 | 0.023 | 0.023 | 0.0029 | 0.0029 | 0.023 | 0.023 | N/A | N/A | -- | -- | 0.023 | Maximum Detect |
| BZ#126 | mg/kg | 2 | / | 2 | 100 | 0.0093 | 0.04 | N/A | N/A | 0.0247 | 0.0247 | 0.00047125 | 0.0217 | -- | -- | 0.04 | Maximum Detect |
| BZ#153 | mg/kg | 2 | / | 2 | 100 | 0.087 | 0.275 | N/A | N/A | 0.181 | 0.181 | 0.0177 | 0.133 | -- | -- | 0.275 | Maximum Detect |
| BZ#156 | mg/kg | 2 | / | 2 | 100 | 0.0079 | 0.03 | N/A | N/A | 0.019 | 0.019 | 0.00024421 | 0.0156 | -- | -- | 0.03 | Maximum Detect |
| BZ#157 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0029 | 0.014 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0059 | 0.027 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0029 | 0.014 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0029 | 0.014 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 1 | / | 2 | 50 | 0.315 | 0.315 | 0.0029 | 0.0029 | 0.315 | 0.315 | N/A | N/A | -- | -- | 0.315 | Maximum Detect |
| BZ#81 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0059 | 0.027 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 2 | / | 2 | 100 | 106 | 143.5 | N/A | N/A | 124.8 | 124.8 | 703.1 | 26.52 | -- | -- | 143.5 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 2 | / | 2 | 100 | 24.6 | 58.75 | N/A | N/A | 41.68 | 41.68 | 583.1 | 24.15 | -- | -- | 58.75 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 2 | / | 2 | 100 | 6.86 | 13.2 | N/A | N/A | 10.03 | 10.03 | 20.1 | 4.483 | -- | -- | 13.2 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 1 | / | 2 | 50 | 1.79 | 1.79 | 0.88 | 0.88 | 1.79 | 1.79 | N/A | N/A | -- | -- | 1.79 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 2 | / | 2 | 100 | 13.5 | 49.65 | N/A | N/A | 31.58 | 31.58 | 653.4 | 25.56 | -- | -- | 49.65 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 2 | / | 2 | 100 | 3.77 | 6.305 | N/A | N/A | 5.038 | 5.038 | 3.213 | 1.793 | -- | -- | 6.305 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 2 | / | 2 | 100 | 116 | 195.2 | N/A | N/A | 155.6 | 155.6 | 3132 | 55.97 | -- | -- | 195.2 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 2 | / | 2 | 100 | 2.59 | 3.67 | N/A | N/A | 3.13 | 3.13 | 0.583 | 0.764 | -- | -- | 3.67 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 1 | / | 2 | 50 | 2.665 | 2.665 | 1.3 | 1.3 | 2.665 | 2.665 | N/A | N/A | -- | -- | 2.665 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 2 | 0 | N/A | N/A | 0.68 | 0.97 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 1 | / | 2 | 50 | 17.65 | 17.65 | 1.1 | 1.1 | 17.65 | 17.65 | N/A | N/A | -- | -- | 17.65 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 2 | / | 2 | 100 | 3.55 | 7.715 | N/A | N/A | 5.633 | 5.633 | 8.674 | 2.945 | -- | -- | 7.715 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 2 | / | 2 | 100 | 8 | 26.75 | N/A | N/A | 17.38 | 17.38 | 175.8 | 13.26 | -- | -- | 26.75 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 1 | / | 2 | 50 | 0.75 | 0.75 | 0.29 | 0.29 | 0.75 | 0.75 | N/A | N/A | -- | -- | 0.75 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 2 | / | 2 | 100 | 182 | 422.6 | N/A | N/A | 302.3 | 302.3 | 28944 | 170.1 | -- | -- | 422.6 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 4 | / | 4 | 100 | 7.18 | 14.1 | N/A | N/A | 10.54 | 10.44 | 10.57 | 3.251 | -- | -- | 14.1 | Maximum Detect |
| TOC by lloyd kahn | mg/kg | 24 | / | 24 | 100 | 4250 | 25000 | N/A | N/A | 14796 | 13550 | 38590651 | 6212 | 16970 | 95% Student's-t UCL | 16970 | UCL |
| **Reach C8 South** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 2 | / | 2 | 100 | 16.5 | 18.75 | N/A | N/A | 17.63 | 17.63 | 2.531 | 1.591 | -- | -- | 18.75 | Maximum Detect |
| Lead | mg/kg | 2 | / | 2 | 100 | 24.7 | 30.45 | N/A | N/A | 27.57 | 27.57 | 16.53 | 4.066 | -- | -- | 30.45 | Maximum Detect |
| Mercury | mg/kg | 2 | / | 2 | 100 | 0.655 | 0.75 | N/A | N/A | 0.703 | 0.703 | 0.00451 | 0.0672 | -- | -- | 0.75 | Maximum Detect |
| Vanadium | mg/kg | 2 | / | 2 | 100 | 27 | 28.3 | N/A | N/A | 27.65 | 27.65 | 0.845 | 0.919 | -- | -- | 28.3 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 10 | / | 20 | 50 | 0.054 | 3.08 | 0.035 | 0.054 | 0.722 | 0.137 | 1.49 | 1.22 | 1.291 | 95% KM (Chebyshev) UCL | 1.291 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.035 | 0.2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.035 | 0.2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.035 | 0.2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.035 | 0.2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1248 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.035 | 0.2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/kg | 6 | / | 20 | 30 | 0.045 | 1.4 | 0.035 | 0.054 | 0.505 | 0.109 | 0.43 | 0.656 | 0.555 | 95% Gamma Adjusted KM-UCL | 0.555 | UCL |
| Aroclor-1260 | mg/kg | 10 | / | 20 | 50 | 0.054 | 1.4 | 0.035 | 0.054 | 0.359 | 0.0955 | 0.303 | 0.551 | 0.611 | 95% KM (Chebyshev) UCL | 0.611 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.035 | 0.2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 3 | / | 20 | 15 | 0.0435 | 0.28 | 0.035 | 0.054 | 0.201 | 0.28 | 0.0186 | 0.137 | -- | -- | 0.28 | Maximum Detect |
| BZ#105 | mg/kg | 2 | / | 2 | 100 | 0.0037 | 0.0068 | N/A | N/A | 0.00525 | 0.00525 | 4.805E-06 | 0.00219 | -- | -- | 0.0068 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0015 | 0.0016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 2 | / | 2 | 100 | 0.007 | 0.014 | N/A | N/A | 0.0105 | 0.0105 | 0.0000245 | 0.00495 | -- | -- | 0.014 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0015 | 0.0016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| BZ#126 | mg/kg | 1 | / | 2 | 50 | 0.0031 | 0.0031 | 0.0016 | 0.0016 | 0.0031 | 0.0031 | N/A | N/A | -- | -- | 0.0031 | Maximum Detect |
| BZ#153 | mg/kg | 2 | / | 2 | 100 | 0.01 | 0.0265 | N/A | N/A | 0.0183 | 0.0183 | 0.00013613 | 0.0117 | -- | -- | 0.0265 | Maximum Detect |
| BZ#156 | mg/kg | 1 | / | 2 | 50 | 0.0028 | 0.0028 | 0.0016 | 0.0016 | 0.0028 | 0.0028 | N/A | N/A | -- | -- | 0.0028 | Maximum Detect |
| BZ#157 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0015 | 0.0016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0031 | 0.0031 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0015 | 0.0016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0015 | 0.0016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 2 | / | 2 | 100 | 0.0086 | 0.018 | N/A | N/A | 0.0133 | 0.0133 | 0.00004418 | 0.00665 | -- | -- | 0.018 | Maximum Detect |
| BZ#81 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0031 | 0.0031 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 2 | / | 2 | 100 | 41.3 | 59.2 | N/A | N/A | 50.25 | 50.25 | 160.2 | 12.66 | -- | -- | 59.2 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 2 | / | 2 | 100 | 4.94 | 11.15 | N/A | N/A | 8.045 | 8.045 | 19.28 | 4.391 | -- | -- | 11.15 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 2 | / | 2 | 100 | 1.9 | 5.055 | N/A | N/A | 3.478 | 3.478 | 4.977 | 2.231 | -- | -- | 5.055 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 2 | / | 2 | 100 | 0.61 | 0.85 | N/A | N/A | 0.73 | 0.73 | 0.0288 | 0.17 | -- | -- | 0.85 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 1 | / | 2 | 50 | 10.36 | 10.36 | 3.4 | 3.4 | 10.36 | 10.36 | N/A | N/A | -- | -- | 10.36 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 2 | / | 2 | 100 | 1.05 | 2.36 | N/A | N/A | 1.705 | 1.705 | 0.858 | 0.926 | -- | -- | 2.36 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 2 | / | 2 | 100 | 41.5 | 115.5 | N/A | N/A | 78.5 | 78.5 | 2738 | 52.33 | -- | -- | 115.5 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 2 | / | 2 | 100 | 1.83 | 3.735 | N/A | N/A | 2.783 | 2.783 | 1.815 | 1.347 | -- | -- | 3.735 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 0 | / | 2 | 0 | N/A | N/A | 1.1 | 2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 2 | 0 | N/A | N/A | 0.45 | 0.49 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 1 | / | 2 | 50 | 2.53 | 2.53 | 0.57 | 0.57 | 2.53 | 2.53 | N/A | N/A | -- | -- | 2.53 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 2 | / | 2 | 100 | 1.35 | 3.375 | N/A | N/A | 2.363 | 2.363 | 2.05 | 1.432 | -- | -- | 3.375 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 2 | / | 2 | 100 | 1.76 | 1.98 | N/A | N/A | 1.87 | 1.87 | 0.0242 | 0.156 | -- | -- | 1.98 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 0 | / | 2 | 0 | N/A | N/A | 0.38 | 0.4 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 2 | / | 2 | 100 | 34.8 | 38.4 | N/A | N/A | 36.6 | 36.6 | 6.48 | 2.546 | -- | -- | 38.4 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TOC by lloyd kahn | mg/kg | 20 | / | 20 | 100 | 4140 | 45600 | N/A | N/A | 16792 | 14900 | 99474996 | 9974 | 20648 | 95% Student's-t UCL | 20648 | UCL |
| **Reach C8 Riparian** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 4 | / | 4 | 100 | 16.5 | 23.7 | N/A | N/A | 19.01 | 17.93 | 10.67 | 3.267 | -- | -- | 23.7 | Maximum Detect |
| Lead | mg/kg | 4 | / | 4 | 100 | 18.6 | 30.45 | N/A | N/A | 25.15 | 25.77 | 24.69 | 4.969 | -- | -- | 30.45 | Maximum Detect |
| Mercury | mg/kg | 4 | / | 4 | 100 | 0.655 | 4.65 | N/A | N/A | 1.751 | 0.85 | 3.75 | 1.936 | -- | -- | 4.65 | Maximum Detect |
| Vanadium | mg/kg | 4 | / | 4 | 100 | 10.6 | 28.3 | N/A | N/A | 19.91 | 20.38 | 81.76 | 9.042 | -- | -- | 28.3 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 18 | / | 19 | 95 | 0.057 | 5.46 | 0.054 | 0.054 | 1.719 | 1.22 | 2.488 | 1.577 | 2.261 | 95% KM (t) UCL | 2.261 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 19 | 0 | N/A | N/A | 0.037 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 19 | 0 | N/A | N/A | 0.037 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 19 | 0 | N/A | N/A | 0.037 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 1 | / | 19 | 5 | 0.2 | 0.2 | 0.037 | 0.41 | 0.2 | 0.2 | N/A | N/A | -- | -- | 0.2 | Maximum Detect |
| Aroclor-1248 | mg/kg | 0 | / | 19 | 0 | N/A | N/A | 0.037 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/kg | 16 | / | 19 | 84 | 0.045 | 2.4 | 0.037 | 0.054 | 0.792 | 0.65 | 0.475 | 0.689 | 0.948 | 95% KM (t) UCL | 0.948 | UCL |
| Aroclor-1260 | mg/kg | 18 | / | 19 | 95 | 0.057 | 2.6 | 0.054 | 0.054 | 0.874 | 0.655 | 0.601 | 0.775 | 1.14 | 95% KM (t) UCL | 1.14 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 19 | 0 | N/A | N/A | 0.037 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 11 | / | 19 | 58 | 0.0435 | 0.46 | 0.037 | 0.41 | 0.226 | 0.28 | 0.0147 | 0.121 | 0.207 | 95% KM (t) UCL | 0.207 | UCL |
| BZ#105 | mg/kg | 4 | / | 4 | 100 | 0.0037 | 0.079 | N/A | N/A | 0.0286 | 0.0159 | 0.00122 | 0.0349 | -- | -- | 0.079 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0015 | 0.014 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 4 | / | 4 | 100 | 0.007 | 0.165 | N/A | N/A | 0.058 | 0.03 | 0.00538 | 0.0733 | -- | -- | 0.165 | Maximum Detect |
| BZ#123 | mg/kg | 1 | / | 4 | 25 | 0.023 | 0.023 | 0.0015 | 0.0029 | 0.023 | 0.023 | N/A | N/A | -- | -- | 0.023 | Maximum Detect |
| BZ#126 | mg/kg | 3 | / | 4 | 75 | 0.0031 | 0.04 | 0.0016 | 0.0016 | 0.0175 | 0.0093 | 0.00039042 | 0.0198 | -- | -- | 0.04 | Maximum Detect |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| BZ#153 | mg/kg | 4 | / | 4 | 100 | 0.01 | 0.275 | N/A | N/A | 0.0996 | 0.0568 | 0.0148 | 0.122 | -- | -- | 0.275 | Maximum Detect |
| BZ#156 | mg/kg | 3 | / | 4 | 75 | 0.0028 | 0.03 | 0.0016 | 0.0016 | 0.0136 | 0.0079 | 0.00020904 | 0.0145 | -- | -- | 0.03 | Maximum Detect |
| BZ#157 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0015 | 0.014 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0031 | 0.027 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0015 | 0.014 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0015 | 0.014 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 3 | / | 4 | 75 | 0.0086 | 0.315 | 0.0029 | 0.0029 | 0.114 | 0.018 | 0.0304 | 0.174 | -- | -- | 0.315 | Maximum Detect |
| BZ#81 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0031 | 0.027 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 4 | / | 4 | 100 | 41.3 | 143.5 | N/A | N/A | 87.5 | 82.6 | 2138 | 46.24 | -- | -- | 143.5 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 4 | / | 4 | 100 | 4.94 | 58.75 | N/A | N/A | 24.86 | 17.88 | 577.8 | 24.04 | -- | -- | 58.75 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 4 | / | 4 | 100 | 1.9 | 13.2 | N/A | N/A | 6.754 | 5.958 | 22.67 | 4.761 | -- | -- | 13.2 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 3 | / | 4 | 75 | 0.61 | 1.79 | 0.88 | 0.88 | 1.083 | 0.85 | 0.389 | 0.624 | -- | -- | 1.79 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 3 | / | 4 | 75 | 10.36 | 49.65 | 3.4 | 3.4 | 24.5 | 13.5 | 476.8 | 21.84 | -- | -- | 49.65 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 4 | / | 4 | 100 | 1.05 | 6.305 | N/A | N/A | 3.371 | 3.065 | 5.059 | 2.249 | -- | -- | 6.305 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 4 | / | 4 | 100 | 41.5 | 195.2 | N/A | N/A | 117 | 115.8 | 3937 | 62.75 | -- | -- | 195.2 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 4 | / | 4 | 100 | 1.83 | 3.735 | N/A | N/A | 2.956 | 3.13 | 0.839 | 0.916 | -- | -- | 3.735 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 1 | / | 4 | 25 | 2.665 | 2.665 | 1.1 | 2 | 2.665 | 2.665 | N/A | N/A | -- | -- | 2.665 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 4 | 0 | N/A | N/A | 0.45 | 0.97 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 2 | / | 4 | 50 | 2.53 | 17.65 | 0.57 | 1.1 | 10.09 | 10.09 | 114.3 | 10.69 | -- | -- | 17.65 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 4 | / | 4 | 100 | 1.35 | 7.715 | N/A | N/A | 3.998 | 3.463 | 7.139 | 2.672 | -- | -- | 7.715 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 4 | / | 4 | 100 | 1.76 | 26.75 | N/A | N/A | 9.623 | 4.99 | 138.7 | 11.78 | -- | -- | 26.75 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 1 | / | 4 | 25 | 0.75 | 0.75 | 0.29 | 0.4 | 0.75 | 0.75 | N/A | N/A | -- | -- | 0.75 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 4 | / | 4 | 100 | 34.8 | 422.6 | N/A | N/A | 169.5 | 110.2 | 33182 | 182.2 | -- | -- | 422.6 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TOC by lloyd kahn | mg/kg | 19 | / | 19 | 100 | 6010 | 45600 | N/A | N/A | 20311 | 19000 | 73353154 | 8565 | 23718 | 95% Student's-t UCL | 23718 | UCL |
| **Reach C9 North** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 4 | / | 4 | 100 | 16.5 | 23.7 | N/A | N/A | 19.01 | 17.93 | 10.67 | 3.267 | -- | -- | 23.7 | Maximum Detect |
| Lead | mg/kg | 4 | / | 4 | 100 | 18.6 | 30.45 | N/A | N/A | 25.15 | 25.77 | 24.69 | 4.969 | -- | -- | 30.45 | Maximum Detect |
| Mercury | mg/kg | 4 | / | 4 | 100 | 0.655 | 4.65 | N/A | N/A | 1.751 | 0.85 | 3.75 | 1.936 | -- | -- | 4.65 | Maximum Detect |
| Vanadium | mg/kg | 4 | / | 4 | 100 | 10.6 | 28.3 | N/A | N/A | 19.91 | 20.38 | 81.76 | 9.042 | -- | -- | 28.3 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 18 | / | 19 | 95 | 0.057 | 5.46 | 0.054 | 0.054 | 1.719 | 1.22 | 2.488 | 1.577 | 2.261 | 95% KM (t) UCL | 2.261 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 19 | 0 | N/A | N/A | 0.037 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 19 | 0 | N/A | N/A | 0.037 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 19 | 0 | N/A | N/A | 0.037 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 1 | / | 19 | 5 | 0.2 | 0.2 | 0.037 | 0.41 | 0.2 | 0.2 | N/A | N/A | -- | -- | 0.2 | Maximum Detect |
| Aroclor-1248 | mg/kg | 0 | / | 19 | 0 | N/A | N/A | 0.037 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/kg | 16 | / | 19 | 84 | 0.045 | 2.4 | 0.037 | 0.054 | 0.792 | 0.65 | 0.475 | 0.689 | 0.948 | 95% KM (t) UCL | 0.948 | UCL |
| Aroclor-1260 | mg/kg | 18 | / | 19 | 95 | 0.057 | 2.6 | 0.054 | 0.054 | 0.874 | 0.655 | 0.601 | 0.775 | 1.14 | 95% KM (t) UCL | 1.14 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 19 | 0 | N/A | N/A | 0.037 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 11 | / | 19 | 58 | 0.0435 | 0.46 | 0.037 | 0.41 | 0.226 | 0.28 | 0.0147 | 0.121 | 0.207 | 95% KM (t) UCL | 0.207 | UCL |
| BZ#105 | mg/kg | 4 | / | 4 | 100 | 0.0037 | 0.079 | N/A | N/A | 0.0286 | 0.0159 | 0.00122 | 0.0349 | -- | -- | 0.079 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0015 | 0.014 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 4 | / | 4 | 100 | 0.007 | 0.165 | N/A | N/A | 0.058 | 0.03 | 0.00538 | 0.0733 | -- | -- | 0.165 | Maximum Detect |
| BZ#123 | mg/kg | 1 | / | 4 | 25 | 0.023 | 0.023 | 0.0015 | 0.0029 | 0.023 | 0.023 | N/A | N/A | -- | -- | 0.023 | Maximum Detect |
| BZ#126 | mg/kg | 3 | / | 4 | 75 | 0.0031 | 0.04 | 0.0016 | 0.0016 | 0.0175 | 0.0093 | 0.00039042 | 0.0198 | -- | -- | 0.04 | Maximum Detect |
| BZ#153 | mg/kg | 4 | / | 4 | 100 | 0.01 | 0.275 | N/A | N/A | 0.0996 | 0.0568 | 0.0148 | 0.122 | -- | -- | 0.275 | Maximum Detect |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| BZ#156 | mg/kg | 3 | / | 4 | 75 | 0.0028 | 0.03 | 0.0016 | 0.0016 | 0.0136 | 0.0079 | 0.00020904 | 0.0145 | -- | -- | 0.03 | Maximum Detect |
| BZ#157 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0015 | 0.014 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0031 | 0.027 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0015 | 0.014 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0015 | 0.014 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 3 | / | 4 | 75 | 0.0086 | 0.315 | 0.0029 | 0.0029 | 0.114 | 0.018 | 0.0304 | 0.174 | -- | -- | 0.315 | Maximum Detect |
| BZ#81 | mg/kg | 0 | / | 4 | 0 | N/A | N/A | 0.0031 | 0.027 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 4 | / | 4 | 100 | 41.3 | 143.5 | N/A | N/A | 87.5 | 82.6 | 2138 | 46.24 | -- | -- | 143.5 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 4 | / | 4 | 100 | 4.94 | 58.75 | N/A | N/A | 24.86 | 17.88 | 577.8 | 24.04 | -- | -- | 58.75 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 4 | / | 4 | 100 | 1.9 | 13.2 | N/A | N/A | 6.754 | 5.958 | 22.67 | 4.761 | -- | -- | 13.2 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 3 | / | 4 | 75 | 0.61 | 1.79 | 0.88 | 0.88 | 1.083 | 0.85 | 0.389 | 0.624 | -- | -- | 1.79 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 3 | / | 4 | 75 | 10.36 | 49.65 | 3.4 | 3.4 | 24.5 | 13.5 | 476.8 | 21.84 | -- | -- | 49.65 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 4 | / | 4 | 100 | 1.05 | 6.305 | N/A | N/A | 3.371 | 3.065 | 5.059 | 2.249 | -- | -- | 6.305 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 4 | / | 4 | 100 | 41.5 | 195.2 | N/A | N/A | 117 | 115.8 | 3937 | 62.75 | -- | -- | 195.2 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 4 | / | 4 | 100 | 1.83 | 3.735 | N/A | N/A | 2.956 | 3.13 | 0.839 | 0.916 | -- | -- | 3.735 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 1 | / | 4 | 25 | 2.665 | 2.665 | 1.1 | 2 | 2.665 | 2.665 | N/A | N/A | -- | -- | 2.665 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 4 | 0 | N/A | N/A | 0.45 | 0.97 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 2 | / | 4 | 50 | 2.53 | 17.65 | 0.57 | 1.1 | 10.09 | 10.09 | 114.3 | 10.69 | -- | -- | 17.65 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 4 | / | 4 | 100 | 1.35 | 7.715 | N/A | N/A | 3.998 | 3.463 | 7.139 | 2.672 | -- | -- | 7.715 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 4 | / | 4 | 100 | 1.76 | 26.75 | N/A | N/A | 9.623 | 4.99 | 138.7 | 11.78 | -- | -- | 26.75 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 1 | / | 4 | 25 | 0.75 | 0.75 | 0.29 | 0.4 | 0.75 | 0.75 | N/A | N/A | -- | -- | 0.75 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 4 | / | 4 | 100 | 34.8 | 422.6 | N/A | N/A | 169.5 | 110.2 | 33182 | 182.2 | -- | -- | 422.6 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TOC by lloyd kahn | mg/kg | 19 | / | 19 | 100 | 6010 | 45600 | N/A | N/A | 20311 | 19000 | 73353154 | 8565 | 23718 | 95% Student's-t UCL | 23718 | UCL |
| **Reach C9 South** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 2 | / | 2 | 100 | 12.2 | 14.1 | N/A | N/A | 13.15 | 13.15 | 1.805 | 1.344 | -- | -- | 14.1 | Maximum Detect |
| Lead | mg/kg | 2 | / | 2 | 100 | 14.3 | 18.6 | N/A | N/A | 16.45 | 16.45 | 9.245 | 3.041 | -- | -- | 18.6 | Maximum Detect |
| Mercury | mg/kg | 20 | / | 20 | 100 | 0.029 | 0.86 | N/A | N/A | 0.33 | 0.315 | 0.0775 | 0.278 | 0.518 | 95% Adjusted Gamma UCL | 0.518 | UCL |
| Vanadium | mg/kg | 2 | / | 2 | 100 | 21.5 | 27 | N/A | N/A | 24.25 | 24.25 | 15.13 | 3.889 | -- | -- | 27 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 11 | / | 20 | 55 | 0.196 | 0.58 | 0.038 | 0.042 | 0.412 | 0.419 | 0.0163 | 0.128 | 0.327 | 95% KM (t) UCL | 0.327 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.038 | 0.082 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.038 | 0.082 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.038 | 0.082 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.038 | 0.082 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1248 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.038 | 0.082 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/kg | 11 | / | 20 | 55 | 0.056 | 0.21 | 0.038 | 0.042 | 0.117 | 0.093 | 0.00259 | 0.0509 | 0.103 | 95% KM (t) UCL | 0.103 | UCL |
| Aroclor-1260 | mg/kg | 11 | / | 20 | 55 | 0.14 | 0.42 | 0.038 | 0.042 | 0.28 | 0.26 | 0.00988 | 0.0994 | 0.228 | 95% KM (t) UCL | 0.228 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.038 | 0.082 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 3 | / | 20 | 15 | 0.042 | 0.066 | 0.038 | 0.082 | 0.0537 | 0.053 | 0.00014433 | 0.012 | -- | -- | 0.066 | Maximum Detect |
| BZ#105 | mg/kg | 3 | / | 3 | 100 | 0.0074 | 0.015 | N/A | N/A | 0.0115 | 0.012 | 1.4653E-05 | 0.00383 | -- | -- | 0.015 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0032 | 0.0033 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 3 | / | 3 | 100 | 0.016 | 0.028 | N/A | N/A | 0.022 | 0.022 | 0.000036 | 0.006 | -- | -- | 0.028 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0032 | 0.0033 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0032 | 0.0033 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 3 | / | 3 | 100 | 0.043 | 0.044 | N/A | N/A | 0.0437 | 0.044 | 3.3333E-07 | 0.00057735 | -- | -- | 0.044 | Maximum Detect |
| BZ#156 | mg/kg | 3 | / | 3 | 100 | 0.0043 | 0.0056 | N/A | N/A | 0.00487 | 0.0047 | 4.4333E-07 | 0.00066583 | -- | -- | 0.0056 | Maximum Detect |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| BZ#157 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0032 | 0.0033 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0063 | 0.0066 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0032 | 0.0033 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0032 | 0.0033 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0032 | 0.0033 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0063 | 0.0066 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 3 | / | 3 | 100 | 28.1 | 38.1 | N/A | N/A | 33 | 32.8 | 25.03 | 5.003 | -- | -- | 38.1 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 3 | / | 3 | 100 | 11.9 | 13.8 | N/A | N/A | 12.93 | 13.1 | 0.923 | 0.961 | -- | -- | 13.8 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 2 | / | 3 | 67 | 2.7 | 2.8 | 0.186 | 0.186 | 2.75 | 2.75 | 0.005 | 0.0707 | -- | -- | 2.8 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 0 | / | 3 | 0 | N/A | N/A | 0.119 | 0.683 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,7,8-hxcdf | pg/g | 3 | / | 3 | 100 | 10.3 | 10.9 | N/A | N/A | 10.53 | 10.4 | 0.103 | 0.321 | -- | -- | 10.9 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 2 | / | 3 | 67 | 0.9 | 1.2 | 0.928 | 0.928 | 1.05 | 1.05 | 0.045 | 0.212 | -- | -- | 1.2 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 3 | / | 3 | 100 | 52.1 | 73.9 | N/A | N/A | 61.6 | 58.8 | 124.7 | 11.17 | -- | -- | 73.9 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 2 | / | 3 | 67 | 0.9 | 1.5 | 1.45 | 1.45 | 1.2 | 1.2 | 0.18 | 0.424 | -- | -- | 1.5 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 0 | / | 3 | 0 | N/A | N/A | 0.495 | 1.02 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 3 | 0 | N/A | N/A | 0.156 | 0.458 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 0 | / | 3 | 0 | N/A | N/A | 58.8 | 158 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,4,6,7,8-hxcdf | pg/g | 3 | / | 3 | 100 | 1.9 | 2.1 | N/A | N/A | 2 | 2 | 0.01 | 0.1 | -- | -- | 2.1 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 2 | / | 3 | 67 | 4 | 4.6 | 0.455 | 0.455 | 4.3 | 4.3 | 0.18 | 0.424 | -- | -- | 4.6 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 0 | / | 3 | 0 | N/A | N/A | 0.14 | 0.752 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 3 | / | 3 | 100 | 6.5 | 12.6 | N/A | N/A | 9.867 | 10.5 | 9.603 | 3.099 | -- | -- | 12.6 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 3 | / | 3 | 100 | 14 | 19 | N/A | N/A | 16.33 | 16 | 6.333 | 2.517 | -- | -- | 19 | Maximum Detect |
| TOC by lloyd kahn | mg/kg | 20 | / | 20 | 100 | 4620 | 45300 | N/A | N/A | 16274 | 13800 | 100000000 | 10000 | 20141 | 95% Student's-t UCL | 20141 | UCL |
| **Reach C9 Riparian** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 1 | / | 1 | 100 | 14.4 | 14.4 | N/A | N/A | 14.4 | 14.4 | N/A | N/A | -- | -- | 14.4 | Maximum Detect |
| Lead | mg/kg | 1 | / | 1 | 100 | 15.5 | 15.5 | N/A | N/A | 15.5 | 15.5 | N/A | N/A | -- | -- | 15.5 | Maximum Detect |
| Mercury | mg/kg | 13 | / | 13 | 100 | 0.029 | 5.1 | N/A | N/A | 0.88 | 0.49 | 1.686 | 1.298 | 1.718 | 95% Adjusted Gamma UCL | 1.718 | UCL |
| Vanadium | mg/kg | 1 | / | 1 | 100 | 9.7 | 9.7 | N/A | N/A | 9.7 | 9.7 | N/A | N/A | -- | -- | 9.7 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 13 | / | 14 | 93 | 0.194 | 5.1 | 0.04 | 0.04 | 0.981 | 0.47 | 1.86 | 1.364 | 2.273 | 95% KM H-UCL | 2.273 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.038 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.038 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.038 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 1 | / | 14 | 7 | 0.31 | 0.31 | 0.038 | 0.41 | 0.31 | 0.31 | N/A | N/A | -- | -- | 0.31 | Maximum Detect |
| Aroclor-1248 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.038 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/kg | 13 | / | 14 | 93 | 0.0485 | 2 | 0.04 | 0.04 | 0.359 | 0.16 | 0.298 | 0.545 | 0.924 | 95% Gamma Adjusted KM-UCL | 0.924 | UCL |
| Aroclor-1260 | mg/kg | 13 | / | 14 | 93 | 0.14 | 3.1 | 0.04 | 0.04 | 0.582 | 0.38 | 0.628 | 0.792 | 1.053 | 95% GROS Adjusted Gamma UCL | 1.053 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 13 | 0 | N/A | N/A | 0.038 | 0.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 2 | / | 13 | 15 | 0.066 | 0.15 | 0.038 | 0.41 | 0.108 | 0.108 | 0.00353 | 0.0594 | -- | -- | 0.15 | Maximum Detect |
| BZ#105 | mg/kg | 5 | / | 5 | 100 | 0.012 | 0.077 | N/A | N/A | 0.031 | 0.022 | 0.0007045 | 0.0265 | -- | -- | 0.077 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 5 | 0 | N/A | N/A | 0.0015 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 5 | / | 5 | 100 | 0.022 | 0.15 | N/A | N/A | 0.0604 | 0.038 | 0.00277 | 0.0526 | -- | -- | 0.15 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 5 | 0 | N/A | N/A | 0.0015 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 5 | 0 | N/A | N/A | 0.0015 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 5 | / | 5 | 100 | 0.044 | 0.36 | N/A | N/A | 0.131 | 0.075 | 0.0177 | 0.133 | -- | -- | 0.36 | Maximum Detect |
| BZ#156 | mg/kg | 5 | / | 5 | 100 | 0.0047 | 0.034 | N/A | N/A | 0.0127 | 0.007 | 0.00015027 | 0.0123 | -- | -- | 0.034 | Maximum Detect |
| BZ#157 | mg/kg | 1 | / | 5 | 20 | 0.0031 | 0.0031 | 0.0032 | 0.016 | 0.0031 | 0.0031 | N/A | N/A | -- | -- | 0.0031 | Maximum Detect |

**Table E2-1**
**Summary Statistics by Reach - Floodplain and Riparian Soil**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| BZ#167 | mg/kg | 1 | / | 5 | 20 | 0.0041 | 0.0041 | 0.0064 | 0.033 | 0.0041 | 0.0041 | N/A | N/A | -- | -- | 0.0041 | Maximum Detect |
| BZ#169 | mg/kg | 0 | / | 5 | 0 | N/A | N/A | 0.0015 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 1 | / | 5 | 20 | 0.0015 | 0.0015 | 0.0032 | 0.016 | 0.0015 | 0.0015 | N/A | N/A | -- | -- | 0.0015 | Maximum Detect |
| BZ#77 | mg/kg | 0 | / | 5 | 0 | N/A | N/A | 0.0015 | 0.016 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 5 | 0 | N/A | N/A | 0.003 | 0.033 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 5 | / | 5 | 100 | 32.8 | 105 | N/A | N/A | 66.66 | 77.6 | 931.1 | 30.51 | -- | -- | 105 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 4 | / | 5 | 80 | 11.9 | 26.9 | 34.6 | 34.6 | 17.7 | 16 | 46.96 | 6.853 | -- | -- | 26.9 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 4 | / | 5 | 80 | 2.7 | 13.9 | 0.186 | 0.186 | 6.45 | 4.6 | 25.9 | 5.089 | -- | -- | 13.9 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 1 | / | 5 | 20 | 0.5 | 0.5 | 0.446 | 2.53 | 0.5 | 0.5 | N/A | N/A | -- | -- | 0.5 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 4 | / | 5 | 80 | 10.4 | 30.9 | 4.61 | 4.61 | 18.27 | 15.9 | 94.23 | 9.707 | -- | -- | 30.9 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 2 | / | 5 | 40 | 1.2 | 3.1 | 0.928 | 2.62 | 2.15 | 2.15 | 1.805 | 1.344 | -- | -- | 3.1 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 5 | / | 5 | 100 | 10.5 | 258 | N/A | N/A | 93.14 | 64.5 | 9094 | 95.36 | -- | -- | 258 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 2 | / | 5 | 40 | 1.5 | 2.2 | 1.45 | 2.77 | 1.85 | 1.85 | 0.245 | 0.495 | -- | -- | 2.2 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 0 | / | 5 | 0 | N/A | N/A | 0.495 | 4.13 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 5 | 0 | N/A | N/A | 0.158 | 0.802 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 0 | / | 5 | 0 | N/A | N/A | 27.9 | 708 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,4,6,7,8-hxcdf | pg/g | 4 | / | 5 | 80 | 1.9 | 3.5 | 5.78 | 5.78 | 2.4 | 2.1 | 0.547 | 0.739 | -- | -- | 3.5 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 4 | / | 5 | 80 | 4 | 18.2 | 3.23 | 3.23 | 7.875 | 4.65 | 47.48 | 6.89 | -- | -- | 18.2 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 0 | / | 5 | 0 | N/A | N/A | 0.117 | 0.752 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 5 | / | 5 | 100 | 10.5 | 556 | N/A | N/A | 124.6 | 15.2 | 58208 | 241.3 | -- | -- | 556 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 5 | / | 5 | 100 | 12 | 19 | N/A | N/A | 16.6 | 18 | 7.8 | 2.793 | -- | -- | 19 | Maximum Detect |
| TOC by lloyd kahn | mg/kg | 14 | / | 14 | 100 | 4780 | 45300 | N/A | N/A | 15345 | 12900 | 94032442 | 9697 | 21100 | 95% Adjusted Gamma UCL | 21100 | UCL |

**Notes:**
"--" = not applicable
% = percent
EPC = exposure point concentration
mg/kg = milligrams per kilograms
N/A = not available
pg/g = picograms per gram
PCB = polychlorinated biphenyl
TOC = total organic carbon
UCL = upper confidence limit

**Table E2-2**
**Summary Statistics by Assessment Area - Floodplain and Riparian Soil**
**Snow Creek, Upper Assessment Area, Middle Assessment Area, and Lower Assessment Area**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Snow Creek, Floodplain Soil** | | | | | | | | | | | | | | | | | |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 81 | / | 100 | 81 | 0.037 | 206.5 | 0.07 | 0.093 | 14.13 | 7.22 | 678.8 | 26.05 | 16.78 | 95% KM Approximate Gamma UCL | 16.78 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 100 | 0 | N/A | N/A | 0.035 | 8.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 100 | 0 | N/A | N/A | 0.07 | 17 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 100 | 0 | N/A | N/A | 0.035 | 8.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 0 | / | 100 | 0 | N/A | N/A | 0.035 | 8.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1248 | mg/kg | 66 | / | 100 | 66 | 0.038 | 16 | 0.035 | 8.5 | 3.17 | 1.65 | 13.42 | 3.663 | 2.803 | 95% KM Approximate Gamma UCL | 2.803 | UCL |
| Aroclor-1254 | mg/kg | 79 | / | 100 | 79 | 0.037 | 120 | 0.035 | 0.046 | 6.655 | 3.2 | 209 | 14.46 | 8.332 | 95% KM Approximate Gamma UCL | 8.332 | UCL |
| Aroclor-1260 | mg/kg | 80 | / | 100 | 80 | 0.04 | 69.5 | 0.035 | 0.046 | 4.117 | 2 | 70.28 | 8.383 | 6.647 | 95% KM (Chebyshev) UCL | 6.647 | UCL |
| Aroclor-1268 | mg/kg | 66 | / | 100 | 66 | 0.048 | 17 | 0.035 | 2.1 | 1.239 | 0.565 | 4.927 | 2.22 | 1.536 | 95% KM H-UCL | 1.536 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TOC by lloyd kahn | mg/kg | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Upper Assessment Area, All Soil** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Barium | mg/kg | 40 | / | 40 | 100 | 44 | 197 | N/A | N/A | 115.8 | 115 | 1413 | 37.59 | 125.9 | 95% Student's-t UCL | 125.9 | UCL |
| Cobalt | mg/kg | 40 | / | 40 | 100 | 3.2 | 13.8 | N/A | N/A | 8.671 | 8.6 | 6.613 | 2.572 | 9.356 | 95% Student's-t UCL | 9.356 | UCL |
| Chromium | mg/kg | 40 | / | 40 | 100 | 9.2 | 55.2 | N/A | N/A | 19.36 | 13.2 | 163.1 | 12.77 | 28.16 | 95% Chebyshev (Mean, Sd) UCL | 28.16 | UCL |
| Lead | mg/kg | 40 | / | 40 | 100 | 11.3 | 106 | N/A | N/A | 38.32 | 29.85 | 573 | 23.94 | 45.26 | 95% Adjusted Gamma UCL | 45.26 | UCL |
| Mercury | mg/kg | 444 | / | 446 | 100 | 0.0064 | 21.7 | 0.0078 | 0.0083 | 1.64 | 0.58 | 7.235 | 2.69 | 2.187 | 95% KM (Chebyshev) UCL | 2.187 | UCL |
| Vanadium | mg/kg | 40 | / | 40 | 100 | 11.4 | 27.2 | N/A | N/A | 19.13 | 18.85 | 16.72 | 4.089 | 20.22 | 95% Student's-t UCL | 20.22 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 392 | / | 539 | 73 | 0.041 | 79.4 | 0 | 0.1 | 7.101 | 2.72 | 127.7 | 11.3 | 9.514 | 99% KM (Chebyshev) UCL | 9.514 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 521 | 0 | N/A | N/A | 0.035 | 4.2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 521 | 0 | N/A | N/A | 0.036 | 4.2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 1 | / | 521 | 0 | 0.48 | 0.48 | 0.035 | 4.2 | 0.48 | 0.48 | N/A | N/A | -- | -- | 0.48 | Maximum Detect |
| Aroclor-1242 | mg/kg | 56 | / | 521 | 11 | 0.048 | 11 | 0.035 | 4.2 | 1.39 | 0.74 | 3.39 | 1.841 | 0.0963 | 95% KM H-UCL | 0.0963 | UCL |
| Aroclor-1248 | mg/kg | 54 | / | 521 | 10 | 0.04 | 5.2 | 0.036 | 4.2 | 0.859 | 0.45 | 1.008 | 1.004 | 0.163 | 95% KM Approximate Gamma UCL | 0.163 | UCL |
| Aroclor-1254 | mg/kg | 341 | / | 521 | 65 | 0.038 | 43 | 0.036 | 0.099 | 3.702 | 1.3 | 37.67 | 6.138 | 3.441 | 95% KM (Chebyshev) UCL | 3.441 | UCL |
| Aroclor-1260 | mg/kg | 375 | / | 521 | 72 | 0.041 | 42 | 0.036 | 0.099 | 2.993 | 1.1 | 22.96 | 4.791 | 2.981 | 95% KM (Chebyshev) UCL | 2.981 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 378 | 0 | N/A | N/A | 0.036 | 4.2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 244 | / | 508 | 48 | 0.04 | 3.4 | 0.036 | 4.2 | 0.516 | 0.305 | 0.348 | 0.59 | 0.282 | 95% KM H-UCL | 0.282 | UCL |
| BZ#105 | mg/kg | 39 | / | 39 | 100 | 0.012 | 0.14 | N/A | N/A | 0.0615 | 0.053 | 0.00128 | 0.0357 | 0.0712 | 95% Student's-t UCL | 0.0712 | UCL |
| BZ#114 | mg/kg | 1 | / | 39 | 3 | 0.0089 | 0.0089 | 0.0016 | 0.017 | 0.0089 | 0.0089 | N/A | N/A | -- | -- | 0.0089 | Maximum Detect |
| BZ#118 | mg/kg | 39 | / | 39 | 100 | 0.024 | 0.28 | N/A | N/A | 0.116 | 0.11 | 0.00443 | 0.0666 | 0.134 | 95% Student's-t UCL | 0.134 | UCL |
| BZ#123 | mg/kg | 0 | / | 39 | 0 | N/A | N/A | 0.0016 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 4 | / | 39 | 10 | 0.016 | 0.028 | 0.0015 | 0.017 | 0.0203 | 0.0185 | 0.000029583 | 0.00544 | -- | -- | 0.028 | Maximum Detect |
| BZ#153 | mg/kg | 39 | / | 39 | 100 | 0.048 | 0.42 | N/A | N/A | 0.184 | 0.16 | 0.00964 | 0.0982 | 0.21 | 95% Student's-t UCL | 0.21 | UCL |
| BZ#156 | mg/kg | 39 | / | 39 | 100 | 0.005 | 0.048 | N/A | N/A | 0.0209 | 0.02 | 0.00012208 | 0.011 | 0.0239 | 95% Student's-t UCL | 0.0239 | UCL |
| BZ#157 | mg/kg | 18 | / | 39 | 46 | 0.0018 | 0.017 | 0.0032 | 0.017 | 0.00765 | 0.0082 | 0.00001433 | 0.00379 | 0.00674 | 95% KM (t) UCL | 0.00674 | UCL |
| BZ#167 | mg/kg | 11 | / | 39 | 28 | 0.0027 | 0.015 | 0.0037 | 0.034 | 0.00883 | 0.0088 | 0.000018618 | 0.00431 | 0.00802 | 95% KM (t) UCL | 0.00802 | UCL |
| BZ#169 | mg/kg | 0 | / | 39 | 0 | N/A | N/A | 0.0015 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 39 | 0 | N/A | N/A | 0.0015 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 39 | 0 | N/A | N/A | 0.0016 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 39 | 0 | N/A | N/A | 0.0032 | 0.034 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 38 | / | 38 | 100 | 22.5 | 178 | N/A | N/A | 89.12 | 92.25 | 1341 | 36.62 | 99.14 | 95% Student's-t UCL | 99.14 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 29 | / | 38 | 76 | 10.7 | 71.6 | 4.83 | 70.8 | 36.4 | 35.6 | 198.8 | 14.1 | 36.31 | 95% KM (t) UCL | 36.31 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 36 | / | 38 | 95 | 1.1 | 16.4 | 2.84 | 3.66 | 8.276 | 8.035 | 14.49 | 3.807 | 9.044 | 95% KM (t) UCL | 9.044 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 34 | / | 38 | 89 | 0.489 | 2.8 | 0.276 | 0.842 | 1.139 | 1.12 | 0.202 | 0.45 | 1.155 | 95% KM Student's t | 1.155 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 38 | / | 38 | 100 | 4.19 | 59 | N/A | N/A | 29.21 | 26.85 | 217 | 14.73 | 33.24 | 95% Student's-t UCL | 33.24 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 34 | / | 38 | 89 | 0.49 | 7.01 | 0.95 | 2.04 | 2.877 | 2.75 | 2.027 | 1.424 | 3.087 | 95% KM (t) UCL | 3.087 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 36 | / | 38 | 95 | 1.1 | 94.6 | 3.35 | 5.59 | 13.87 | 8.16 | 313.5 | 17.71 | 17.64 | 95% KM H-UCL | 17.64 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 34 | / | 38 | 89 | 0.659 | 7.38 | 1.38 | 3.36 | 2.929 | 2.82 | 1.858 | 1.363 | 3.196 | 95% GROS Adjusted Gamma UCL | 3.196 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 24 | / | 38 | 63 | 0.315 | 1.17 | 0.165 | 2.46 | 0.761 | 0.819 | 0.0687 | 0.262 | 0.746 | 95% KM (t) UCL | 0.746 | UCL |
| 1,2,3,7,8-pecdd | pg/g | 26 | / | 38 | 68 | 0.283 | 1.36 | 0.148 | 1.11 | 0.605 | 0.55 | 0.0739 | 0.272 | 0.612 | 95% GROS Adjusted Gamma UCL | 0.612 | UCL |
| 1,2,3,7,8-pecdf | pg/g | 35 | / | 38 | 92 | 1.11 | 15.2 | 2.7 | 45.7 | 7.094 | 6.4 | 12.31 | 3.508 | 7.945 | 95% KM (t) UCL | 7.945 | UCL |
| 2,3,4,6,7,8-hxcdf | pg/g | 38 | / | 38 | 100 | 0.72 | 9.77 | N/A | N/A | 4.561 | 4.575 | 4.646 | 2.155 | 5.151 | 95% Student's-t UCL | 5.151 | UCL |

**Table E2-2**
**Summary Statistics by Assessment Area - Floodplain and Riparian Soil**
**Snow Creek, Upper Assessment Area, Middle Assessment Area, and Lower Assessment Area**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| 2,3,4,7,8-pecdf | pg/g | 38 | / | 38 | 100 | 1.63 | 28.4 | N/A | N/A | 13.26 | 11.8 | 46.28 | 6.803 | 15.12 | 95% Student's-t UCL | 15.12 | UCL |
| 2,3,7,8-tcdd | pg/g | 6 | / | 38 | 16 | 0.137 | 0.327 | 0.0722 | 1.38 | 0.227 | 0.223 | 0.00442 | 0.0665 | 0.131 | 95% KM (t) UCL | 0.131 | UCL |
| 2,3,7,8-tcdf | pg/g | 36 | / | 38 | 95 | 1.71 | 81 | 7.65 | 56.8 | 21.59 | 18.4 | 250.9 | 15.84 | 25.86 | 95% GROS Adjusted Gamma UCL | 25.86 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 94 | / | 94 | 100 | 6.29 | 32 | N/A | N/A | 17.83 | 17.25 | 27.37 | 5.231 | 18.73 | 95% Student's-t UCL | 18.73 | UCL |
| TOC by lloyd kahn | mg/kg | 459 | / | 459 | 100 | 2510 | 71300 | N/A | N/A | 17369 | 15900 | 85372493 | 9240 | 18083 | 95% Approximate Gamma UCL | 18083 | UCL |
| **Upper Assessment Area, Riparian** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 8 | / | 8 | 100 | 9.75 | 46 | N/A | N/A | 19.53 | 14.8 | 141.7 | 11.9 | 27.5 | 95% Student's-t UCL | 27.5 | UCL |
| Lead | mg/kg | 8 | / | 8 | 100 | 17.5 | 89.1 | N/A | N/A | 41.08 | 39.8 | 531.5 | 23.05 | 56.52 | 95% Student's-t UCL | 56.52 | UCL |
| Mercury | mg/kg | 65 | / | 65 | 100 | 0.0064 | 17.4 | N/A | N/A | 2.077 | 1.005 | 9.865 | 3.141 | 2.809 | 95% Approximate Gamma UCL | 2.809 | UCL |
| Vanadium | mg/kg | 8 | / | 8 | 100 | 13.8 | 22.8 | N/A | N/A | 17.93 | 17.5 | 11.58 | 3.403 | 20.21 | 95% Student's-t UCL | 20.21 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 74 | / | 91 | 81 | 0.07 | 79.4 | 0 | 0.09 | 9.493 | 4.65 | 148.2 | 12.17 | 10.22 | 95% KM Approximate Gamma UCL | 10.22 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 78 | 0 | N/A | N/A | 0.036 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 78 | 0 | N/A | N/A | 0.036 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 1 | / | 78 | 1 | 0.48 | 0.48 | 0.036 | 2.1 | 0.48 | 0.48 | N/A | N/A | -- | -- | 0.48 | Maximum Detect |
| Aroclor-1242 | mg/kg | 19 | / | 78 | 24 | 0.19 | 3.2 | 0.036 | 2.1 | 1.042 | 0.91 | 0.765 | 0.875 | 0.409 | 95% KM (t) UCL | 0.409 | UCL |
| Aroclor-1248 | mg/kg | 12 | / | 78 | 15 | 0.04 | 3.9 | 0.036 | 2.1 | 0.775 | 0.485 | 1.037 | 1.018 | 0.307 | 95% KM Approximate Gamma UCL | 0.307 | UCL |
| Aroclor-1254 | mg/kg | 61 | / | 78 | 78 | 0.056 | 35 | 0.036 | 0.05 | 4.695 | 2.1 | 41.39 | 6.433 | 5.136 | 95% KM Approximate Gamma UCL | 5.136 | UCL |
| Aroclor-1260 | mg/kg | 61 | / | 78 | 78 | 0.07 | 42 | 0.036 | 0.05 | 4.094 | 1.8 | 36.92 | 6.077 | 4.601 | 95% KM Approximate Gamma UCL | 4.601 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 55 | 0 | N/A | N/A | 0.036 | 2.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 30 | / | 65 | 46 | 0.069 | 2.4 | 0.036 | 2.1 | 0.532 | 0.273 | 0.295 | 0.543 | 0.393 | 95% KM H-UCL | 0.393 | UCL |
| BZ#105 | mg/kg | 9 | / | 9 | 100 | 0.013 | 0.083 | N/A | N/A | 0.0508 | 0.05 | 0.00054644 | 0.0234 | 0.0653 | 95% Student's-t UCL | 0.0653 | UCL |
| BZ#114 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0033 | 0.0086 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 9 | / | 9 | 100 | 0.027 | 0.14 | N/A | N/A | 0.0923 | 0.094 | 0.00153 | 0.0391 | 0.117 | 95% Student's-t UCL | 0.117 | UCL |
| BZ#123 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0033 | 0.0086 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0033 | 0.0086 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 9 | / | 9 | 100 | 0.063 | 0.25 | N/A | N/A | 0.149 | 0.13 | 0.00362 | 0.0602 | 0.187 | 95% Student's-t UCL | 0.187 | UCL |
| BZ#156 | mg/kg | 9 | / | 9 | 100 | 0.0053 | 0.027 | N/A | N/A | 0.0171 | 0.017 | 0.000047463 | 0.00689 | 0.0214 | 95% Student's-t UCL | 0.0214 | UCL |
| BZ#157 | mg/kg | 5 | / | 9 | 56 | 0.0057 | 0.0086 | 0.0033 | 0.0074 | 0.00746 | 0.008 | 0.000001418 | 0.00119 | 0.00729 | 95% KM (t) UCL | 0.00729 | UCL |
| BZ#167 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0066 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0033 | 0.0086 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0033 | 0.0086 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0033 | 0.0086 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 9 | 0 | N/A | N/A | 0.0066 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 9 | / | 9 | 100 | 22.5 | 140 | N/A | N/A | 74.4 | 50.2 | 2466 | 49.66 | 105.2 | 95% Student's-t UCL | 105.2 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 5 | / | 9 | 56 | 21.1 | 47.3 | 4.83 | 70.8 | 37.08 | 42 | 138.4 | 11.76 | 39.03 | 95% KM (t) UCL | 39.03 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 9 | / | 9 | 100 | 1.1 | 15.8 | N/A | N/A | 7.81 | 6.68 | 24.01 | 4.9 | 10.85 | 95% Student's-t UCL | 10.85 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 6 | / | 9 | 67 | 0.489 | 1.9 | 0.276 | 0.672 | 1.214 | 1.215 | 0.248 | 0.498 | 1.297 | 95% KM (t) UCL | 1.297 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 9 | / | 9 | 100 | 4.19 | 55.7 | N/A | N/A | 24.47 | 21.8 | 220.9 | 14.86 | 33.68 | 95% Student's-t UCL | 33.68 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 7 | / | 9 | 78 | 0.49 | 5.28 | 0.95 | 1.53 | 2.86 | 3.33 | 3.388 | 1.841 | 3.56 | 95% KM (t) UCL | 3.56 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 9 | / | 9 | 100 | 1.1 | 52.7 | N/A | N/A | 17.3 | 13.7 | 247.2 | 15.72 | 27.04 | 95% Student's-t UCL | 27.04 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 6 | / | 9 | 67 | 0.659 | 5.2 | 1.38 | 2.33 | 3.002 | 3.07 | 3.793 | 1.948 | 3.53 | 95% KM (t) UCL | 3.53 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 4 | / | 9 | 44 | 0.813 | 1.17 | 0.165 | 1.28 | 0.957 | 0.922 | 0.0238 | 0.154 | -- | -- | 1.17 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 3 | / | 9 | 33 | 0.323 | 1.02 | 0.148 | 0.977 | 0.751 | 0.909 | 0.14 | 0.375 | -- | -- | 1.02 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 9 | / | 9 | 100 | 1.11 | 13 | N/A | N/A | 5.92 | 5.83 | 12.01 | 3.466 | 8.068 | 95% Student's-t UCL | 8.068 | UCL |
| 2,3,4,6,7,8-hxcdf | pg/g | 9 | / | 9 | 100 | 0.72 | 7.78 | N/A | N/A | 4.034 | 3.6 | 4.371 | 2.091 | 5.33 | 95% Student's-t UCL | 5.33 | UCL |
| 2,3,4,7,8-pecdf | pg/g | 9 | / | 9 | 100 | 1.63 | 23.8 | N/A | N/A | 11.57 | 11 | 44.33 | 6.658 | 15.7 | 95% Student's-t UCL | 15.7 | UCL |
| 2,3,7,8-tcdd | pg/g | 3 | / | 9 | 33 | 0.137 | 0.262 | 0.187 | 0.455 | 0.215 | 0.247 | 0.00466 | 0.0683 | -- | -- | 0.262 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 9 | / | 9 | 100 | 1.71 | 81 | N/A | N/A | 27.98 | 22.1 | 521.5 | 22.84 | 42.13 | 95% Student's-t UCL | 42.13 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 9 | / | 9 | 100 | 10 | 29 | N/A | N/A | 19.78 | 20 | 27.94 | 5.286 | 23.05 | 95% Student's-t UCL | 23.05 | UCL |
| TOC by lloyd kahn | mg/kg | 78 | / | 78 | 100 | 2740 | 37750 | N/A | N/A | 16822 | 15800 | 83468811 | 9136 | 18848 | 95% Approximate Gamma UCL | 18848 | UCL |
| **Middle Assessment Area, All Soil** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Barium | mg/kg | 22 | / | 22 | 100 | 18.8 | 145.8 | N/A | N/A | 75.79 | 65.25 | 1409 | 37.54 | 89.56 | 95% Student's-t UCL | 89.56 | UCL |

**Table E2-2**
**Summary Statistics by Assessment Area - Floodplain and Riparian Soil**
**Snow Creek, Upper Assessment Area, Middle Assessment Area, and Lower Assessment Area**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Cobalt | mg/kg | 22 | / | 22 | 100 | 2.7 | 15.25 | N/A | N/A | 6.802 | 6.2 | 9.762 | 3.124 | 8.139 | 95% Adjusted Gamma UCL | 8.139 | UCL |
| Chromium | mg/kg | 22 | / | 22 | 100 | 5.8 | 41.9 | N/A | N/A | 14.88 | 11.25 | 94.68 | 9.73 | 18.96 | 95% Adjusted Gamma UCL | 18.96 | UCL |
| Lead | mg/kg | 22 | / | 22 | 100 | 7.3 | 95.6 | N/A | N/A | 23.01 | 15 | 401.1 | 20.03 | 41.62 | 95% Chebyshev (Mean, Sd) UCL | 41.62 | UCL |
| Mercury | mg/kg | 259 | / | 259 | 100 | 0.017 | 8.4 | N/A | N/A | 0.565 | 0.16 | 0.971 | 0.985 | 0.831 | 95% Chebyshev (Mean, Sd) UCL | 0.831 | UCL |
| Vanadium | mg/kg | 22 | / | 22 | 100 | 4.3 | 44.9 | N/A | N/A | 20.85 | 17.8 | 139.1 | 11.8 | 25.17 | 95% Student's-t UCL | 25.17 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 151 | / | 275 | 55 | 0.04 | 15.5 | 0.036 | 0.14 | 1.664 | 0.89 | 4.789 | 2.188 | 1.407 | 95% KM (Chebyshev) UCL | 1.407 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 275 | 0 | N/A | N/A | 0.035 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 275 | 0 | N/A | N/A | 0.036 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 275 | 0 | N/A | N/A | 0.035 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 19 | / | 275 | 7 | 0.045 | 1.5 | 0.035 | 0.85 | 0.334 | 0.24 | 0.098 | 0.313 | 0.0369 | 95% GROS Approximate Gamma UCL | 0.0369 | UCL |
| Aroclor-1248 | mg/kg | 16 | / | 275 | 6 | 0.042 | 1.6 | 0.035 | 0.85 | 0.386 | 0.29 | 0.154 | 0.393 | 0.0363 | 95% GROS Approximate Gamma UCL | 0.0363 | UCL |
| Aroclor-1254 | mg/kg | 121 | / | 275 | 44 | 0.039 | 6.8 | 0.035 | 0.072 | 0.807 | 0.47 | 0.959 | 0.979 | 0.573 | 95% KM (Chebyshev) UCL | 0.573 | UCL |
| Aroclor-1260 | mg/kg | 151 | / | 275 | 55 | 0.037 | 7.7 | 0.035 | 0.072 | 0.852 | 0.5 | 1.182 | 1.087 | 0.721 | 95% KM (Chebyshev) UCL | 0.721 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 225 | 0 | N/A | N/A | 0.036 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 76 | / | 266 | 29 | 0.038 | 0.96 | 0.035 | 0.49 | 0.191 | 0.16 | 0.0226 | 0.15 | 0.0709 | 95% GROS Approximate Gamma UCL | 0.0709 | UCL |
| BZ#105 | mg/kg | 35 | / | 35 | 100 | 0.0047 | 0.13 | N/A | N/A | 0.0454 | 0.04 | 0.00087173 | 0.0295 | 0.0559 | 95% Adjusted Gamma UCL | 0.0559 | UCL |
| BZ#114 | mg/kg | 0 | / | 35 | 0 | N/A | N/A | 0.0016 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 35 | / | 35 | 100 | 0.0099 | 0.22 | N/A | N/A | 0.088 | 0.08 | 0.00284 | 0.0533 | 0.107 | 95% Adjusted Gamma UCL | 0.107 | UCL |
| BZ#123 | mg/kg | 0 | / | 35 | 0 | N/A | N/A | 0.0016 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 35 | 0 | N/A | N/A | 0.0016 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 35 | / | 35 | 100 | 0.031 | 0.32 | N/A | N/A | 0.156 | 0.14 | 0.00624 | 0.079 | 0.178 | 95% Student's-t UCL | 0.178 | UCL |
| BZ#156 | mg/kg | 35 | / | 35 | 100 | 0.0023 | 0.04 | N/A | N/A | 0.0167 | 0.015 | 0.00008546 | 0.00924 | 0.0193 | 95% Student's-t UCL | 0.0193 | UCL |
| BZ#157 | mg/kg | 12 | / | 35 | 34 | 0.0024 | 0.012 | 0.0016 | 0.018 | 0.00648 | 0.0056 | 9.8742E-06 | 0.00314 | 0.00511 | 95% KM (t) UCL | 0.00511 | UCL |
| BZ#167 | mg/kg | 0 | / | 35 | 0 | N/A | N/A | 0.0031 | 0.037 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 35 | 0 | N/A | N/A | 0.0016 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 35 | 0 | N/A | N/A | 0.0016 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 1 | / | 35 | 3 | 0.071 | 0.071 | 0.0016 | 0.018 | 0.071 | 0.071 | N/A | N/A | -- | -- | 0.071 | Maximum Detect |
| BZ#81 | mg/kg | 0 | / | 35 | 0 | N/A | N/A | 0.0031 | 0.037 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 34 | / | 34 | 100 | 25.5 | 425 | N/A | N/A | 109.6 | 88.45 | 6422 | 80.14 | 132.9 | 95% Student's-t UCL | 132.9 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 23 | / | 34 | 68 | 8.87 | 156 | 13.3 | 66.7 | 51.54 | 45 | 1148 | 33.88 | 50.82 | 95% KM (t) UCL | 50.82 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 33 | / | 34 | 97 | 1.37 | 54.5 | 13.5 | 13.5 | 10.99 | 9.55 | 94.46 | 9.719 | 13.57 | 95% GROS Adjusted Gamma UCL | 13.57 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 25 | / | 34 | 74 | 0.314 | 3.19 | 0.24 | 5.6 | 1.386 | 1.2 | 0.619 | 0.787 | 1.433 | 95% KM (t) UCL | 1.433 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 33 | / | 34 | 97 | 5.54 | 183 | 6.63 | 6.63 | 37.97 | 29.9 | 1235 | 35.14 | 50.19 | 95% GROS Adjusted Gamma UCL | 50.19 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 30 | / | 34 | 88 | 0.949 | 17.6 | 1.23 | 5.81 | 4.811 | 3.85 | 12.75 | 3.571 | 5.468 | 95% KM (t) UCL | 5.468 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 29 | / | 34 | 85 | 1.4 | 372 | 8.67 | 23.9 | 71.21 | 43.3 | 6764 | 82.24 | 94.96 | 95% Gamma Adjusted KM-UCL | 94.96 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 24 | / | 34 | 71 | 0.708 | 8.21 | 1.07 | 7.81 | 3.987 | 4.205 | 4.864 | 2.205 | 4.07 | 95% KM (t) UCL | 4.07 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 9 | / | 34 | 26 | 0.223 | 1.83 | 0.505 | 6.71 | 0.878 | 0.704 | 0.316 | 0.562 | 0.813 | 95% KM (t) UCL | 0.813 | UCL |
| 1,2,3,7,8-pecdd | pg/g | 3 | / | 34 | 9 | 0.393 | 1.56 | 0.11 | 2.41 | 0.833 | 0.547 | 0.402 | 0.634 | -- | -- | 1.56 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 19 | / | 34 | 56 | 1.83 | 1140 | 0.815 | 780 | 67.79 | 6.34 | 67440 | 259.7 | 186 | 95% KM (Chebyshev) UCL | 186 | UCL |
| 2,3,4,6,7,8-hxcdf | pg/g | 23 | / | 34 | 68 | 1.01 | 16.3 | 3.45 | 15.5 | 5.194 | 4.36 | 13.94 | 3.734 | 5.52 | 95% KM (t) UCL | 5.52 | UCL |
| 2,3,4,7,8-pecdf | pg/g | 32 | / | 34 | 94 | 3.17 | 73.7 | 3.61 | 15.3 | 15.79 | 11.15 | 189.5 | 13.77 | 20.28 | 95% GROS Adjusted Gamma UCL | 20.28 | UCL |
| 2,3,7,8-tcdd | pg/g | 2 | / | 34 | 6 | 0.136 | 0.543 | 0.106 | 13.9 | 0.34 | 0.34 | 0.0828 | 0.288 | -- | -- | 0.543 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 31 | / | 34 | 91 | 5.3 | 437 | 36.6 | 602 | 73.56 | 47.6 | 7608 | 87.22 | 95.74 | 95% GROS Adjusted Gamma UCL | 95.74 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 34 | / | 34 | 100 | 11 | 37 | N/A | N/A | 21.68 | 20.5 | 37.01 | 6.084 | 23.44 | 95% Student's-t UCL | 23.44 | UCL |
| TOC by lloyd kahn | mg/kg | 268 | / | 268 | 100 | 1340 | 93700 | N/A | N/A | 15769 | 14650 | 116600000 | 10796 | 16821 | 95% Approximate Gamma UCL | 16821 | UCL |
| **Middle Assessment Area, Riparian Soil** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 3 | / | 3 | 100 | 7.1 | 41.9 | N/A | N/A | 22.47 | 18.4 | 315.2 | 17.75 | -- | -- | 41.9 | Maximum Detect |
| Lead | mg/kg | 3 | / | 3 | 100 | 25.5 | 52.7 | N/A | N/A | 34.93 | 26.6 | 237 | 15.4 | -- | -- | 52.7 | Maximum Detect |
| Mercury | mg/kg | 73 | / | 73 | 100 | 0.031 | 8.4 | N/A | N/A | 1.121 | 0.61 | 2.06 | 1.435 | 1.417 | 95% Approximate Gamma UCL | 1.417 | UCL |
| Vanadium | mg/kg | 3 | / | 3 | 100 | 11 | 15.7 | N/A | N/A | 13.33 | 13.3 | 5.523 | 2.35 | -- | -- | 15.7 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 75 | / | 86 | 87 | 0.04 | 15.5 | 0.037 | 0.074 | 2.201 | 1.51 | 6.759 | 2.6 | 2.475 | 95% KM Approximate Gamma UCL | 2.475 | UCL |

**Table E2-2**
**Summary Statistics by Assessment Area - Floodplain and Riparian Soil**
**Snow Creek, Upper Assessment Area, Middle Assessment Area, and Lower Assessment Area**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Aroclor-1016 | mg/kg | 0 | / | 86 | 0 | N/A | N/A | 0.035 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 86 | 0 | N/A | N/A | 0.037 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 86 | 0 | N/A | N/A | 0.035 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 12 | / | 86 | 14 | 0.13 | 1.5 | 0.035 | 0.85 | 0.376 | 0.24 | 0.141 | 0.376 | 0.0808 | 95% GROS Approximate Gamma UCL | 0.0808 | UCL |
| Aroclor-1248 | mg/kg | 15 | / | 86 | 17 | 0.069 | 1.6 | 0.035 | 0.85 | 0.409 | 0.29 | 0.156 | 0.395 | 0.107 | 95% GROS Approximate Gamma UCL | 0.107 | UCL |
| Aroclor-1254 | mg/kg | 65 | / | 86 | 76 | 0.054 | 6.8 | 0.035 | 0.048 | 1.01 | 0.7 | 1.332 | 1.154 | 1.012 | 95% KM Approximate Gamma UCL | 1.012 | UCL |
| Aroclor-1260 | mg/kg | 75 | / | 86 | 87 | 0.04 | 7.7 | 0.035 | 0.048 | 1.082 | 0.72 | 1.606 | 1.267 | 1.216 | 95% KM Approximate Gamma UCL | 1.216 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 64 | 0 | N/A | N/A | 0.037 | 0.85 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 45 | / | 77 | 58 | 0.045 | 0.96 | 0.035 | 0.43 | 0.214 | 0.17 | 0.0282 | 0.168 | 0.166 | 95% GROS Approximate Gamma UCL | 0.166 | UCL |
| BZ#105 | mg/kg | 20 | / | 20 | 100 | 0.013 | 0.095 | N/A | N/A | 0.0409 | 0.0385 | 0.00048557 | 0.022 | 0.0494 | 95% Student's-t UCL | 0.0494 | UCL |
| BZ#114 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.0031 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 20 | / | 20 | 100 | 0.026 | 0.18 | N/A | N/A | 0.0805 | 0.0755 | 0.00172 | 0.0414 | 0.0998 | 95% Adjusted Gamma UCL | 0.0998 | UCL |
| BZ#123 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.0031 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.0031 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 20 | / | 20 | 100 | 0.064 | 0.32 | N/A | N/A | 0.148 | 0.135 | 0.00498 | 0.0706 | 0.175 | 95% Student's-t UCL | 0.175 | UCL |
| BZ#156 | mg/kg | 20 | / | 20 | 100 | 0.0052 | 0.034 | N/A | N/A | 0.0157 | 0.0145 | 0.000058533 | 0.00765 | 0.0187 | 95% Student's-t UCL | 0.0187 | UCL |
| BZ#157 | mg/kg | 8 | / | 20 | 40 | 0.0037 | 0.012 | 0.0033 | 0.018 | 0.0068 | 0.0056 | 7.4086E-06 | 0.00272 | 0.00597 | 95% KM (t) UCL | 0.00597 | UCL |
| BZ#167 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.0062 | 0.037 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.0031 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.0031 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 1 | / | 20 | 5 | 0.071 | 0.071 | 0.0031 | 0.018 | 0.071 | 0.071 | N/A | N/A | -- | -- | 0.071 | Maximum Detect |
| BZ#81 | mg/kg | 0 | / | 20 | 0 | N/A | N/A | 0.0062 | 0.037 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 19 | / | 19 | 100 | 25.6 | 296 | N/A | N/A | 97.66 | 82.5 | 3832 | 61.9 | 122.3 | 95% Student's-t UCL | 122.3 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 13 | / | 19 | 68 | 21 | 156 | 18.5 | 49.6 | 54.51 | 45 | 1208 | 34.76 | 62.91 | 95% KM Adjusted Gamma UCL | 62.91 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 19 | / | 19 | 100 | 3.4 | 54.5 | N/A | N/A | 12.24 | 8.86 | 148 | 12.16 | 17.08 | 95% H-UCL | 17.08 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 13 | / | 19 | 68 | 0.426 | 2.62 | 0.24 | 2.15 | 1.374 | 1.31 | 0.386 | 0.621 | 1.412 | 95% KM (t) UCL | 1.412 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 19 | / | 19 | 100 | 12.4 | 120 | N/A | N/A | 36.56 | 29.6 | 773.7 | 27.82 | 49.03 | 95% Adjusted Gamma UCL | 49.03 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 16 | / | 19 | 84 | 1.87 | 12.2 | 1.23 | 2.3 | 4.321 | 3.85 | 6.626 | 2.574 | 4.897 | 95% KM (t) UCL | 4.897 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 15 | / | 19 | 79 | 4.61 | 372 | 8.67 | 23.9 | 103.8 | 76.3 | 9255 | 96.2 | 144.6 | 95% KM Adjusted Gamma UCL | 144.6 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 12 | / | 19 | 63 | 1.06 | 8.21 | 1.07 | 6.06 | 4.22 | 4.46 | 4.924 | 2.219 | 4.246 | 95% KM (t) UCL | 4.246 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 2 | / | 19 | 11 | 0.463 | 1.44 | 0.505 | 4.58 | 0.952 | 0.952 | 0.477 | 0.691 | -- | -- | 1.44 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 19 | 0 | N/A | N/A | 0.185 | 2.41 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 9 | / | 19 | 47 | 4.38 | 1140 | 0.815 | 780 | 133.2 | 7.69 | 142560 | 377.6 | 449.5 | 97.5% KM (Chebyshev) UCL | 449.5 | UCL |
| 2,3,4,6,7,8-hxcdf | pg/g | 12 | / | 19 | 63 | 2.23 | 16.3 | 4.94 | 15.5 | 5.104 | 3.7 | 15.19 | 3.897 | 5.66 | 95% GROS Adjusted Gamma UCL | 5.66 | UCL |
| 2,3,4,7,8-pecdf | pg/g | 18 | / | 19 | 95 | 4.08 | 73.7 | 15.3 | 15.3 | 16.53 | 11.15 | 252.9 | 15.9 | 22.51 | 95% GROS Adjusted Gamma UCL | 22.51 | UCL |
| 2,3,7,8-tcdd | pg/g | 0 | / | 19 | 0 | N/A | N/A | 0.168 | 13.9 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 17 | / | 19 | 89 | 16.6 | 437 | 304 | 602 | 80.26 | 63.9 | 9403 | 96.97 | 112.9 | 95% GROS Adjusted Gamma UCL | 112.9 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 19 | / | 19 | 100 | 11 | 29 | N/A | N/A | 20.84 | 21 | 31.58 | 5.62 | 23.08 | 95% Student's-t UCL | 23.08 | UCL |
| TOC by lloyd kahn | mg/kg | 82 | / | 82 | 100 | 2090 | 65850 | N/A | N/A | 17945 | 17000 | 106500000 | 10318 | 19864 | 95% Approximate Gamma UCL | 19864 | UCL |
| **Lower Assessment Area, All Soil** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Barium | mg/kg | 26 | / | 26 | 100 | 45.9 | 163 | N/A | N/A | 88 | 79.63 | 1199 | 34.62 | 101.6 | 95% Adjusted Gamma UCL | 101.6 | UCL |
| Cobalt | mg/kg | 26 | / | 26 | 100 | 3.85 | 25.2 | N/A | N/A | 8.913 | 8 | 19.68 | 4.436 | 10.45 | 95% Adjusted Gamma UCL | 10.45 | UCL |
| Chromium | mg/kg | 26 | / | 26 | 100 | 4.3 | 42 | N/A | N/A | 16.86 | 14.3 | 100.3 | 10.01 | 20.22 | 95% Student's-t UCL | 20.22 | UCL |
| Lead | mg/kg | 26 | / | 26 | 100 | 9.95 | 39.4 | N/A | N/A | 20.9 | 19.4 | 60.59 | 7.784 | 23.51 | 95% Student's-t UCL | 23.51 | UCL |
| Mercury | mg/kg | 130 | / | 140 | 93 | 0.0075 | 8.4 | 0.0068 | 0.076 | 0.515 | 0.081 | 1.644 | 1.282 | 0.938 | 95% KM (Chebyshev) UCL | 0.938 | UCL |
| Vanadium | mg/kg | 26 | / | 26 | 100 | 5.85 | 45.4 | N/A | N/A | 19.63 | 14.85 | 104.4 | 10.22 | 23.73 | 95% Adjusted Gamma UCL | 23.73 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 132 | / | 288 | 46 | 0.028 | 9.9 | 0.034 | 0.084 | 1.037 | 0.264 | 3.049 | 1.746 | 0.821 | 95% KM (Chebyshev) UCL | 0.821 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 288 | 0 | N/A | N/A | 0.034 | 0.89 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 288 | 0 | N/A | N/A | 0.034 | 1.6 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 288 | 0 | N/A | N/A | 0.034 | 0.89 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 10 | / | 288 | 3 | 0.047 | 0.81 | 0.034 | 0.89 | 0.318 | 0.25 | 0.0661 | 0.257 | 0.0513 | 95% KM (t) UCL | 0.0513 | UCL |
| Aroclor-1248 | mg/kg | 7 | / | 288 | 2 | 0.034 | 0.58 | 0.034 | 0.89 | 0.205 | 0.19 | 0.0333 | 0.183 | 0.0423 | 95% KM (t) UCL | 0.0423 | UCL |
| Aroclor-1254 | mg/kg | 73 | / | 288 | 25 | 0.042 | 5.2 | 0.034 | 0.38 | 0.682 | 0.25 | 0.918 | 0.958 | 0.342 | 95% KM (Chebyshev) UCL | 0.342 | UCL |
| Aroclor-1260 | mg/kg | 132 | / | 288 | 46 | 0.028 | 5.2 | 0.034 | 0.079 | 0.576 | 0.195 | 0.856 | 0.925 | 0.455 | 95% KM (Chebyshev) UCL | 0.455 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 252 | 0 | N/A | N/A | 0.034 | 0.89 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 41 | / | 275 | 15 | 0.039 | 0.71 | 0.034 | 0.89 | 0.167 | 0.12 | 0.0256 | 0.16 | 0.0755 | 95% KM (Chebyshev) UCL | 0.0755 | UCL |

**Table E2-2**
**Summary Statistics by Assessment Area - Floodplain and Riparian Soil**
**Snow Creek, Upper Assessment Area, Middle Assessment Area, and Lower Assessment Area**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| BZ#105 | mg/kg | 21 | / | 28 | 75 | 0.0023 | 0.12 | 0.0014 | 0.0017 | 0.0269 | 0.012 | 0.00124 | 0.0352 | 0.0378 | Gamma Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 0.0378 | UCL |
| BZ#114 | mg/kg | 0 | / | 28 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 24 | / | 28 | 86 | 0.0019 | 0.23 | 0.0014 | 0.0015 | 0.0462 | 0.015 | 0.00436 | 0.0661 | 0.0736 | Gamma Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 0.0736 | UCL |
| BZ#123 | mg/kg | 2 | / | 28 | 7 | 0.0041 | 0.023 | 0.0014 | 0.017 | 0.0136 | 0.0136 | 0.00017861 | 0.0134 | -- | -- | 0.023 | Maximum Detect |
| BZ#126 | mg/kg | 7 | / | 28 | 25 | 0.002 | 0.044 | 0.0014 | 0.017 | 0.0148 | 0.0031 | 0.00035273 | 0.0188 | 0.00506 | KM H-UCL | 0.00506 | UCL |
| BZ#153 | mg/kg | 25 | / | 28 | 89 | 0.0032 | 0.37 | 0.0028 | 0.003 | 0.0853 | 0.042 | 0.0139 | 0.118 | 0.136 | Gamma Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 0.136 | UCL |
| BZ#156 | mg/kg | 17 | / | 28 | 61 | 0.0019 | 0.042 | 0.0014 | 0.0017 | 0.0125 | 0.0069 | 0.0001806 | 0.0134 | 0.0129 | KM H-UCL | 0.0129 | UCL |
| BZ#157 | mg/kg | 1 | / | 28 | 4 | 0.0031 | 0.0031 | 0.0014 | 0.017 | 0.0031 | 0.0031 | N/A | N/A | -- | -- | 0.0031 | Maximum Detect |
| BZ#167 | mg/kg | 2 | / | 28 | 7 | 0.0031 | 0.0041 | 0.0028 | 0.035 | 0.0036 | 0.0036 | 0.0000005 | 0.00070711 | -- | -- | 0.0041 | Maximum Detect |
| BZ#169 | mg/kg | 0 | / | 28 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 1 | / | 28 | 4 | 0.0015 | 0.0015 | 0.0014 | 0.017 | 0.0015 | 0.0015 | N/A | N/A | -- | -- | 0.0015 | Maximum Detect |
| BZ#77 | mg/kg | 5 | / | 28 | 18 | 0.0019 | 0.315 | 0.0014 | 0.017 | 0.0711 | 0.012 | 0.0186 | 0.136 | 0.0812 | Gamma Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 0.0812 | UCL |
| BZ#81 | mg/kg | 0 | / | 28 | 0 | N/A | N/A | 0.0028 | 0.035 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 28 | / | 28 | 100 | 11.8 | 250 | N/A | N/A | 69.87 | 57.2 | 2499 | 49.99 | 87.69 | 95% Adjusted Gamma UCL | 87.69 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 20 | / | 28 | 71 | 2.7 | 109 | 0.34 | 34.6 | 22.99 | 13.45 | 753.5 | 27.45 | 30.03 | 95% KM Adjusted Gamma UCL | 30.03 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 20 | / | 28 | 71 | 0.18 | 24.3 | 0.17 | 2.15 | 5.785 | 3.235 | 43.82 | 6.62 | 7.361 | Gamma Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 7.361 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 19 | / | 28 | 68 | 0.19 | 2.51 | 0.119 | 2.53 | 0.947 | 0.82 | 0.382 | 0.618 | 1.025 | 95% GROS Adjusted Gamma UCL | 1.025 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 23 | / | 28 | 82 | 0.59 | 86.7 | 0.082 | 4.61 | 16.38 | 10.3 | 438.9 | 20.95 | 23.88 | Gamma Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 23.88 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 22 | / | 28 | 79 | 0.195 | 10 | 0.928 | 2.62 | 2.296 | 1.18 | 6.381 | 2.526 | 2.918 | 95% GROS Adjusted Gamma UCL | 2.918 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 25 | / | 28 | 89 | 1.12 | 365 | 0.25 | 1.88 | 65.51 | 41.5 | 7859 | 88.65 | 103.2 | Gamma Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 103.2 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 25 | / | 28 | 89 | 0.316 | 5.42 | 1.45 | 2.77 | 2.017 | 1.83 | 1.394 | 1.181 | 2.309 | 95% KM (t) UCL | 2.309 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 2 | / | 28 | 7 | 1.41 | 2.665 | 0.11 | 4.4 | 2.038 | 2.038 | 0.788 | 0.887 | -- | -- | 2.665 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 1 | / | 28 | 4 | 0.969 | 0.969 | 0.093 | 1.62 | 0.969 | 0.969 | N/A | N/A | -- | -- | 0.969 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 8 | / | 28 | 29 | 0.4 | 23.6 | 0.13 | 708 | 7.989 | 3.425 | 74.74 | 8.645 | 6.04 | 95% KM (t) UCL | 6.04 | UCL |
| 2,3,4,6,7,8-hxcdf | pg/g | 18 | / | 28 | 64 | 0.3 | 13.7 | 0.097 | 5.78 | 3.498 | 2.05 | 14.38 | 3.792 | 4.113 | 95% KM Adjusted Gamma UCL | 4.113 | UCL |
| 2,3,4,7,8-pecdf | pg/g | 21 | / | 28 | 75 | 0.66 | 37.1 | 0.14 | 4.73 | 7.437 | 4 | 88.05 | 9.384 | 19.45 | KM H-UCL | 19.45 | UCL |
| 2,3,7,8-tcdd | pg/g | 2 | / | 28 | 7 | 0.441 | 0.75 | 0.092 | 0.752 | 0.596 | 0.596 | 0.0477 | 0.218 | -- | -- | 0.75 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 26 | / | 28 | 93 | 1.24 | 683 | 0.58 | 4.32 | 83.51 | 11.55 | 32648 | 180.7 | 222.2 | 95% KM (Chebyshev) UCL | 222.2 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 17 | / | 17 | 100 | 7.18 | 23 | N/A | N/A | 16.48 | 18 | 21.2 | 4.604 | 18.43 | 95% Student's-t UCL | 18.43 | UCL |
| TOC by lloyd kahn | mg/kg | 288 | / | 288 | 100 | 1100 | 55300 | N/A | N/A | 14296 | 12550 | 67468462 | 8214 | 15080 | 95% Approximate Gamma UCL | 15080 | UCL |
| **Lower Assessment Area, Riparian Soil** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 10 | / | 10 | 100 | 7.4 | 27.8 | N/A | N/A | 15.82 | 15.8 | 43.46 | 6.592 | 19.64 | 95% Student's-t UCL | 19.64 | UCL |
| Lead | mg/kg | 10 | / | 10 | 100 | 11 | 32.1 | N/A | N/A | 21.08 | 21.3 | 56.56 | 7.521 | 25.44 | 95% Student's-t UCL | 25.44 | UCL |
| Mercury | mg/kg | 29 | / | 30 | 97 | 0.029 | 7.6 | 0.02 | 0.02 | 1.467 | 0.74 | 3.641 | 1.908 | 3.871 | KM H-UCL | 3.871 | UCL |
| Vanadium | mg/kg | 10 | / | 10 | 100 | 9.7 | 28.3 | N/A | N/A | 15.37 | 13.97 | 46.27 | 6.802 | 20.66 | 95% Adjusted Gamma UCL | 20.66 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 70 | / | 79 | 89 | 0.028 | 9.9 | 0.037 | 0.084 | 1.58 | 0.795 | 3.609 | 1.9 | 1.829 | 95% KM Approximate Gamma UCL | 1.829 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 79 | 0 | N/A | N/A | 0.034 | 0.77 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 79 | 0 | N/A | N/A | 0.034 | 1.6 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 79 | 0 | N/A | N/A | 0.034 | 0.77 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 9 | / | 79 | 11 | 0.047 | 0.81 | 0.034 | 0.77 | 0.319 | 0.2 | 0.0743 | 0.273 | 0.095 | 95% KM (t) UCL | 0.095 | UCL |
| Aroclor-1248 | mg/kg | 7 | / | 79 | 9 | 0.034 | 0.58 | 0.034 | 0.77 | 0.205 | 0.19 | 0.0333 | 0.183 | 0.0663 | 95% KM (t) UCL | 0.0663 | UCL |
| Aroclor-1254 | mg/kg | 54 | / | 79 | 68 | 0.045 | 5.2 | 0.035 | 0.38 | 0.746 | 0.385 | 0.87 | 0.933 | 0.724 | 95% KM Approximate Gamma UCL | 0.724 | UCL |
| Aroclor-1260 | mg/kg | 70 | / | 79 | 89 | 0.028 | 4.7 | 0.035 | 0.054 | 0.859 | 0.455 | 1.001 | 1 | 0.987 | 95% KM Approximate Gamma UCL | 0.987 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 61 | 0 | N/A | N/A | 0.034 | 0.77 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 28 | / | 66 | 42 | 0.039 | 0.71 | 0.034 | 0.77 | 0.22 | 0.165 | 0.0287 | 0.169 | 0.137 | 95% GROS Approximate Gamma UCL | 0.137 | UCL |

**Table E2-2**
**Summary Statistics by Assessment Area - Floodplain and Riparian Soil**
**Snow Creek, Upper Assessment Area, Middle Assessment Area, and Lower Assessment Area**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| BZ#105 | mg/kg | 13 | / | 14 | 93 | 0.0029 | 0.12 | 0.0015 | 0.0015 | 0.0382 | 0.022 | 0.00166 | 0.0408 | 0.0601 | 95% KM Bootstrap t UCL | 0.0601 | UCL |
| BZ#114 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 13 | / | 14 | 93 | 0.0057 | 0.23 | 0.0015 | 0.0015 | 0.0746 | 0.038 | 0.00631 | 0.0795 | 0.118 | 95% KM Bootstrap t UCL | 0.118 | UCL |
| BZ#123 | mg/kg | 1 | / | 14 | 7 | 0.023 | 0.023 | 0.0014 | 0.017 | 0.023 | 0.023 | N/A | N/A | -- | -- | 0.023 | Maximum Detect |
| BZ#126 | mg/kg | 5 | / | 14 | 36 | 0.002 | 0.044 | 0.0015 | 0.017 | 0.0197 | 0.0093 | 0.0004249 | 0.0206 | 0.0156 | 95% KM (t) UCL | 0.0156 | UCL |
| BZ#153 | mg/kg | 14 | / | 14 | 100 | 0.0032 | 0.37 | N/A | N/A | 0.129 | 0.0595 | 0.0205 | 0.143 | 0.272 | 95% Adjusted Gamma UCL | 0.272 | UCL |
| BZ#156 | mg/kg | 11 | / | 14 | 79 | 0.0019 | 0.042 | 0.0015 | 0.0016 | 0.0166 | 0.0079 | 0.00023242 | 0.0152 | 0.0228 | 95% KM Bootstrap t UCL | 0.0228 | UCL |
| BZ#157 | mg/kg | 1 | / | 14 | 7 | 0.0031 | 0.0031 | 0.0014 | 0.017 | 0.0031 | 0.0031 | N/A | N/A | -- | -- | 0.0031 | Maximum Detect |
| BZ#167 | mg/kg | 1 | / | 14 | 7 | 0.0041 | 0.0041 | 0.0029 | 0.035 | 0.0041 | 0.0041 | N/A | N/A | -- | -- | 0.0041 | Maximum Detect |
| BZ#169 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 1 | / | 14 | 7 | 0.0015 | 0.0015 | 0.0014 | 0.017 | 0.0015 | 0.0015 | N/A | N/A | -- | -- | 0.0015 | Maximum Detect |
| BZ#77 | mg/kg | 3 | / | 14 | 21 | 0.0086 | 0.315 | 0.0014 | 0.017 | 0.114 | 0.018 | 0.0304 | 0.174 | -- | -- | 0.315 | Maximum Detect |
| BZ#81 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.0029 | 0.035 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 14 | / | 14 | 100 | 17.7 | 250 | N/A | N/A | 87.59 | 68.4 | 4028 | 63.47 | 117.6 | 95% Student's-t UCL | 117.6 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 10 | / | 14 | 71 | 4.94 | 109 | 0.93 | 34.6 | 35.57 | 21.75 | 1186 | 34.44 | 56.73 | 95% KM Adjusted Gamma UCL | 56.73 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 12 | / | 14 | 86 | 0.18 | 24.3 | 0.186 | 2.15 | 8.077 | 5.228 | 59.34 | 7.703 | 10.62 | 95% KM (t) UCL | 10.62 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 8 | / | 14 | 57 | 0.25 | 2.51 | 0.446 | 2.53 | 1.166 | 0.775 | 0.716 | 0.846 | 1.275 | 95% KM (t) UCL | 1.275 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 12 | / | 14 | 86 | 0.59 | 86.7 | 3.4 | 4.61 | 24.95 | 12.2 | 678 | 26.04 | 41.39 | 95% KM Bootstrap t UCL | 41.39 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 10 | / | 14 | 71 | 0.37 | 10 | 0.928 | 2.62 | 3.684 | 2.73 | 10.45 | 3.232 | 4.327 | 95% KM (t) UCL | 4.327 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 14 | / | 14 | 100 | 1.12 | 365 | N/A | N/A | 99.26 | 64.55 | 11254 | 106.1 | 207.7 | 95% Adjusted Gamma UCL | 207.7 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 11 | / | 14 | 79 | 0.49 | 5.42 | 1.45 | 2.77 | 2.636 | 2.2 | 2.034 | 1.426 | 3.035 | 95% KM (t) UCL | 3.035 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 2 | / | 14 | 14 | 1.41 | 2.665 | 0.18 | 4.4 | 2.038 | 2.038 | 0.788 | 0.887 | -- | -- | 2.665 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 1 | / | 14 | 7 | 0.969 | 0.969 | 0.158 | 0.97 | 0.969 | 0.969 | N/A | N/A | -- | -- | 0.969 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 5 | / | 14 | 36 | 1.69 | 23.6 | 0.5 | 708 | 11.39 | 11.5 | 90.22 | 9.498 | 12.05 | 95% KM (t) UCL | 12.05 | UCL |
| 2,3,4,6,7,8-hxcdf | pg/g | 10 | / | 14 | 71 | 1.35 | 13.7 | 0.27 | 5.78 | 5.119 | 3.438 | 19.7 | 4.438 | 7.622 | 95% KM Adjusted Gamma UCL | 7.622 | UCL |
| 2,3,4,7,8-pecdf | pg/g | 12 | / | 14 | 86 | 1.76 | 37.1 | 0.51 | 3.23 | 10.48 | 4.65 | 130.2 | 11.41 | 18.29 | 95% KM Bootstrap t UCL | 18.29 | UCL |
| 2,3,7,8-tcdd | pg/g | 2 | / | 14 | 14 | 0.441 | 0.75 | 0.117 | 0.752 | 0.596 | 0.596 | 0.0477 | 0.218 | -- | -- | 0.75 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 14 | / | 14 | 100 | 2.1 | 683 | N/A | N/A | 148.5 | 31.75 | 52894 | 230 | 381.8 | 95% Adjusted Gamma UCL | 381.8 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 6 | / | 6 | 100 | 12 | 22 | N/A | N/A | 17.5 | 18 | 11.1 | 3.332 | -- | -- | 22 | Maximum Detect |
| TOC by lloyd kahn | mg/kg | 79 | / | 79 | 100 | 1100 | 45600 | N/A | N/A | 17902 | 17200 | 80451428 | 8969 | 19582 | 95% Student's-t UCL | 19582 | UCL |

**Notes:**
"--" = not applicable
% = percent
EPC = exposure point concentration
mg/kg = milligrams per kilograms
N/A = not available
pg/g = picograms per gram
PCB = polychlorinated biphenyl
TOC = total organic carbon
UCL = upper confidence limit

**Table E2-3**
**Summary Statistics by Assessment Area - Terrestrial Tissue**
**Upper Assessment Area, Middle Assessment Area, and Lower Assessment Area**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Total Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | |
| **Terrestrial Plants** | | | | | | | | | | | | | | | | |
| Upper | PCBs | mg/kg dw | 1 / 18 | 6 | 0.257 | 0.257 | 0.033 | 0.213 | 0.257 | 0.257 | N/A | N/A | -- | -- | 0.26 | Maximum Detect |
| Middle | PCBs | mg/kg dw | 2 / 18 | 11 | 0.31 | 0.437 | 0.0344 | 0.231 | 0.373 | 0.373 | 0.00797 | 0.0893 | -- | -- | 0.44 | Maximum Detect |
| Lower | PCBs | mg/kg dw | 0 / 18 | 0 | N/A | N/A | 0.0276 | 0.348 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Terrestrial Insects (Grasshoppers/Crickets)** | | | | | | | | | | | | | | | | |
| Upper | PCBs | mg/kg dw | 0 / 6 | 0 | N/A | N/A | 0.086 | 0.182 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Middle | PCBs | mg/kg dw | 0 / 6 | 0 | N/A | N/A | 0.138 | 0.176 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | PCBs | mg/kg dw | 0 / 6 | 0 | N/A | N/A | 0.0809 | 0.192 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Soil Invertebrates (Earthworms)** | | | | | | | | | | | | | | | | |
| Upper | PCBs | mg/kg dw | 6 / 9 | 67 | 13.98 | 84.64 | 0.0714 | 0.178 | 39.89 | 34.86 | 706.6 | 26.58 | 45.15 | 95% KM (t) UCL | 45.15 | UCL |
| Middle | PCBs | mg/kg dw | 5 / 9 | 56 | 0.913 | 11.08 | 0.0442 | 0.18 | 3.946 | 1.325 | 19.17 | 4.379 | 4.64 | 95% KM (t) UCL | 4.64 | UCL |
| Lower | PCBs | mg/kg dw | 5 / 9 | 56 | 3.304 | 7.897 | 0.107 | 0.184 | 5.589 | 5.366 | 3.417 | 1.848 | 5.225 | 95% KM (t) UCL | 5.225 | UCL |
| **Small Mammals** | | | | | | | | | | | | | | | | |
| Upper | PCBs | mg/kg dw | 14 / 16 | 88 | 0.319 | 13.53 | 0.0531 | 0.0531 | 3.223 | 1.106 | 17.27 | 4.156 | 6.357 | 95% Gamma Adjusted KM-UCL | 6.357 | UCL |
| Middle | PCBs | mg/kg dw | 8 / 11 | 73 | 0.13 | 20.34 | 0.0531 | 0.0781 | 3.923 | 1.538 | 46.34 | 6.807 | 14.9 | 95% Gamma Adjusted KM-UCL | 14.9 | UCL |
| Lower | PCBs | mg/kg dw | 8 / 17 | 47 | 0.195 | 38.13 | 0.05 | 0.175 | 7.804 | 4.828 | 157.3 | 12.54 | 15.36 | 95% Gamma Adjusted KM-UCL | 15.36 | UCL |
| **Mercury** | | | | | | | | | | | | | | | | |
| **Terrestrial Plants** | | | | | | | | | | | | | | | | |
| Upper | Hg | mg/kg dw | 0 / 18 | 0 | N/A | N/A | 0.0106 | 0.0615 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Middle | Hg | mg/kg dw | 2 / 18 | 11 | 0.0238 | 0.0598 | 0.00894 | 0.0652 | 0.0418 | 0.0418 | 0.0006463 | 0.0254 | -- | -- | 0.0598 | Maximum Detect |
| Lower | Hg | mg/kg dw | 0 / 18 | 0 | N/A | N/A | 0.0117 | 0.059 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Terrestrial Insects (Grasshoppers/Crickets)** | | | | | | | | | | | | | | | | |
| Upper | Hg | mg/kg dw | 4 / 7 | 57 | 0.0207 | 0.0377 | 0.0176 | 0.0248 | 0.0314 | 0.0336 | 5.561E-05 | 0.00746 | -- | -- | 0.0377 | Maximum Detect |
| Middle | Hg | mg/kg dw | 0 / 6 | 0 | N/A | N/A | 0.0183 | 0.0221 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | Hg | mg/kg dw | 1 / 7 | 14 | 0.0631 | 0.0631 | 0.0223 | 0.0286 | 0.0631 | 0.0631 | N/A | N/A | -- | -- | 0.0631 | Maximum Detect |
| **Soil Invertebrates (Earthworms)** | | | | | | | | | | | | | | | | |
| Upper | Hg | mg/kg dw | 9 / 9 | 100 | 0.11 | 7.362 | N/A | N/A | 3.757 | 4.405 | 8.676 | 2.945 | 5.583 | 95% Student's-t UCL | 5.583 | UCL |
| Middle | Hg | mg/kg dw | 9 / 9 | 100 | 0.529 | 4.395 | N/A | N/A | 1.309 | 0.758 | 1.621 | 1.273 | 3.159 | 95% Chebyshev (Mean, Sd) UCL | 3.159 | UCL |
| Lower | Hg | mg/kg dw | 9 / 9 | 100 | 0.14 | 3.712 | N/A | N/A | 1.581 | 1.316 | 1.682 | 1.297 | 2.385 | 95% Student's-t UCL | 2.385 | UCL |
| **Small Mammals** | | | | | | | | | | | | | | | | |
| Upper | Hg | mg/kg dw | 8 / 16 | 50 | 0.0203 | 0.0906 | 0.0169 | 0.0209 | 0.0526 | 0.0469 | 0.0007871 | 0.0281 | 0.0468 | 95% KM (t) UCL | 0.0468 | UCL |
| Middle | Hg | mg/kg dw | 5 / 11 | 45 | 0.0222 | 0.278 | 0.0131 | 0.0203 | 0.128 | 0.0781 | 0.0109 | 0.104 | 0.117 | 95% KM (t) UCL | 0.117 | UCL |
| Lower | Hg | mg/kg dw | 5 / 17 | 29 | 0.05 | 0.75 | 0.0156 | 0.0225 | 0.242 | 0.134 | 0.0849 | 0.291 | 0.165 | 95% KM (t) UCL | 0.165 | UCL |
| **Barium** | | | | | | | | | | | | | | | | |
| **Terrestrial Plants** | | | | | | | | | | | | | | | | |
| Upper | Ba | mg/kg dw | 2 / 2 | 100 | 1.781 | 52.56 | N/A | N/A | 27.17 | 27.17 | 1289 | 35.91 | -- | -- | 52.56 | Maximum Detect |
| Middle | Ba | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 1.36 | 1.36 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | Ba | mg/kg dw | 3 / 3 | 100 | 41.61 | 250.8 | N/A | N/A | 112.1 | 43.97 | 14423 | 120.1 | -- | -- | 250.8 | Maximum Detect |
| **Terrestrial Insects (Grasshoppers/Crickets)** | | | | | | | | | | | | | | | | |
| Upper | Ba | mg/kg dw | 1 / 1 | 100 | 3.252 | 3.252 | N/A | N/A | 3.252 | 3.252 | N/A | N/A | -- | -- | 3.252 | Maximum Detect |
| Lower | Ba | mg/kg dw | 1 / 1 | 100 | 8.856 | 8.856 | N/A | N/A | 8.856 | 8.856 | N/A | N/A | -- | -- | 8.856 | Maximum Detect |
| **Soil Invertebrates (Earthworms)** | | | | | | | | | | | | | | | | |
| Upper | Ba | mg/kg dw | 1 / 1 | 100 | 228.9 | 228.9 | N/A | N/A | 228.9 | 228.9 | N/A | N/A | -- | -- | 228.9 | Maximum Detect |

**Table E2-3**
**Summary Statistics by Assessment Area - Terrestrial Tissue**
**Upper Assessment Area, Middle Assessment Area, and Lower Assessment Area**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Middle | Ba | mg/kg dw | 2 / 2 | 100 | 84.1 | 155.3 | N/A | N/A | 119.7 | 119.7 | 2535 | 50.35 | -- | -- | 155.3 | Maximum Detect |
| Lower | Ba | mg/kg dw | 1 / 1 | 100 | 54 | 54 | N/A | N/A | 54 | 54 | N/A | N/A | -- | -- | 54 | Maximum Detect |
| **Small Mammals** | | | | | | | | | | | | | | | | |
| Upper | Ba | mg/kg dw | 2 / 2 | 100 | 9.375 | 9.688 | N/A | N/A | 9.531 | 9.531 | 0.0488 | 0.221 | -- | -- | 9.688 | Maximum Detect |
| Middle | Ba | mg/kg dw | 1 / 1 | 100 | 13.13 | 13.13 | N/A | N/A | 13.13 | 13.13 | N/A | N/A | -- | -- | 13.13 | Maximum Detect |
| Lower | Ba | mg/kg dw | 1 / 1 | 100 | 43.44 | 43.44 | N/A | N/A | 43.44 | 43.44 | N/A | N/A | -- | -- | 43.44 | Maximum Detect |
| **Cobalt** | | | | | | | | | | | | | | | | |
| **Terrestrial Plants** | | | | | | | | | | | | | | | | |
| Upper | Co | mg/kg dw | 0 / 2 | 0 | N/A | N/A | 0.0377 | 0.0705 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Middle | Co | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 43.86 | 43.86 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | Co | mg/kg dw | 2 / 3 | 67 | 0.385 | 0.394 | 28.74 | 28.74 | 0.389 | 0.389 | 4.127E-05 | 0.00642 | -- | -- | 0.394 | Maximum Detect |
| **Terrestrial Insects (Grasshoppers/Crickets)** | | | | | | | | | | | | | | | | |
| Upper | Co | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 34.97 | 34.97 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | Co | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 36.9 | 36.9 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Soil Invertebrates (Earthworms)** | | | | | | | | | | | | | | | | |
| Upper | Co | mg/kg dw | 1 / 1 | 100 | 5.575 | 5.575 | N/A | N/A | 5.575 | 5.575 | N/A | N/A | -- | -- | 5.575 | Maximum Detect |
| Middle | Co | mg/kg dw | 2 / 2 | 100 | 4.417 | 5.682 | N/A | N/A | 5.049 | 5.049 | 0.8 | 0.894 | -- | -- | 5.682 | Maximum Detect |
| Lower | Co | mg/kg dw | 1 / 1 | 100 | 5.405 | 5.405 | N/A | N/A | 5.405 | 5.405 | N/A | N/A | -- | -- | 5.405 | Maximum Detect |
| **Small Mammals** | | | | | | | | | | | | | | | | |
| Upper | Co | mg/kg dw | 0 / 2 | 0 | N/A | N/A | 31.25 | 31.25 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Middle | Co | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 31.25 | 31.25 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | Co | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 31.25 | 31.25 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Chromium** | | | | | | | | | | | | | | | | |
| **Terrestrial Plants** | | | | | | | | | | | | | | | | |
| Upper | Cr | mg/kg dw | 2 / 2 | 100 | 0.641 | 2.397 | N/A | N/A | 1.519 | 1.519 | 1.542 | 1.242 | -- | -- | 2.397 | Maximum Detect |
| Middle | Cr | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 17.54 | 17.54 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | Cr | mg/kg dw | 3 / 3 | 100 | 0.472 | 0.862 | N/A | N/A | 0.631 | 0.559 | 0.0418 | 0.205 | -- | -- | 0.862 | Maximum Detect |
| **Terrestrial Insects (Grasshoppers/Crickets)** | | | | | | | | | | | | | | | | |
| Upper | Cr | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 13.99 | 13.99 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | Cr | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 14.76 | 14.76 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Soil Invertebrates (Earthworms)** | | | | | | | | | | | | | | | | |
| Upper | Cr | mg/kg dw | 1 / 1 | 100 | 12.89 | 12.89 | N/A | N/A | 12.89 | 12.89 | N/A | N/A | -- | -- | 12.89 | Maximum Detect |
| Middle | Cr | mg/kg dw | 2 / 2 | 100 | 10.23 | 19.43 | N/A | N/A | 14.83 | 14.83 | 42.39 | 6.511 | -- | -- | 19.43 | Maximum Detect |
| Lower | Cr | mg/kg dw | 1 / 1 | 100 | 13.85 | 13.85 | N/A | N/A | 13.85 | 13.85 | N/A | N/A | -- | -- | 13.85 | Maximum Detect |
| **Small Mammals** | | | | | | | | | | | | | | | | |
| Upper | Cr | mg/kg dw | 2 / 2 | 100 | 2.125 | 4.688 | N/A | N/A | 3.406 | 3.406 | 3.283 | 1.812 | -- | -- | 4.688 | Maximum Detect |
| Middle | Cr | mg/kg dw | 1 / 1 | 100 | 2.25 | 2.25 | N/A | N/A | 2.25 | 2.25 | N/A | N/A | -- | -- | 2.25 | Maximum Detect |
| Lower | Cr | mg/kg dw | 1 / 1 | 100 | 4.063 | 4.063 | N/A | N/A | 4.063 | 4.063 | N/A | N/A | -- | -- | 4.063 | Maximum Detect |
| **Lead** | | | | | | | | | | | | | | | | |
| **Terrestrial Plants** | | | | | | | | | | | | | | | | |
| Upper | Pb | mg/kg dw | 0 / 2 | 0 | N/A | N/A | 6.849 | 12.82 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Middle | Pb | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 0.0154 | 0.0154 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | Pb | mg/kg dw | 1 / 3 | 33 | 0.103 | 0.103 | 6.993 | 7.874 | 0.103 | 0.103 | N/A | N/A | -- | -- | 0.103 | Maximum Detect |
| **Terrestrial Insects (Grasshoppers/Crickets)** | | | | | | | | | | | | | | | | |

**Table E2-3**
**Summary Statistics by Assessment Area - Terrestrial Tissue**
**Upper Assessment Area, Middle Assessment Area, and Lower Assessment Area**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Upper | Pb | mg/kg dw | 1 / 1 | 100 | 0.245 | 0.245 | N/A | N/A | 0.245 | 0.245 | N/A | N/A | -- | -- | 0.245 | Maximum Detect |
| Lower | Pb | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 7.38 | 7.38 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Soil Invertebrates (Earthworms)** | | | | | | | | | | | | | | | | |
| Upper | Pb | mg/kg dw | 1 / 1 | 100 | 20.21 | 20.21 | N/A | N/A | 20.21 | 20.21 | N/A | N/A | -- | -- | 20.21 | Maximum Detect |
| Middle | Pb | mg/kg dw | 2 / 2 | 100 | 16.67 | 115.7 | N/A | N/A | 66.2 | 66.2 | 4906 | 70.04 | -- | -- | 115.7 | Maximum Detect |
| Lower | Pb | mg/kg dw | 1 / 1 | 100 | 15.88 | 15.88 | N/A | N/A | 15.88 | 15.88 | N/A | N/A | -- | -- | 15.88 | Maximum Detect |
| **Small Mammals** | | | | | | | | | | | | | | | | |
| Upper | Pb | mg/kg dw | 1 / 2 | 50 | 3.75 | 3.75 | 6.25 | 6.25 | 3.75 | 3.75 | N/A | N/A | -- | -- | 3.75 | Maximum Detect |
| Middle | Pb | mg/kg dw | 1 / 1 | 100 | 5.313 | 5.313 | N/A | N/A | 5.313 | 5.313 | N/A | N/A | -- | -- | 5.313 | Maximum Detect |
| Lower | Pb | mg/kg dw | 1 / 1 | 100 | 0.594 | 0.594 | N/A | N/A | 0.594 | 0.594 | N/A | N/A | -- | -- | 0.594 | Maximum Detect |
| **Vanadium** | | | | | | | | | | | | | | | | |
| **Terrestrial Plants** | | | | | | | | | | | | | | | | |
| Upper | V | mg/kg dw | 2 / 2 | 100 | 0.0753 | 0.122 | N/A | N/A | 0.0986 | 0.0986 | 0.00108 | 0.0328 | -- | -- | 0.122 | Maximum Detect |
| Middle | V | mg/kg dw | 1 / 1 | 100 | 0.114 | 0.114 | N/A | N/A | 0.114 | 0.114 | N/A | N/A | -- | -- | 0.114 | Maximum Detect |
| Lower | V | mg/kg dw | 3 / 3 | 100 | 0.0805 | 0.11 | N/A | N/A | 0.0997 | 0.108 | 0.0002784 | 0.0167 | -- | -- | 0.11 | Maximum Detect |
| **Terrestrial Insects (Grasshoppers/Crickets)** | | | | | | | | | | | | | | | | |
| Upper | V | mg/kg dw | 1 / 1 | 100 | 0.0944 | 0.0944 | N/A | N/A | 0.0944 | 0.0944 | N/A | N/A | -- | -- | 0.0944 | Maximum Detect |
| Lower | V | mg/kg dw | 1 / 1 | 100 | 0.214 | 0.214 | N/A | N/A | 0.214 | 0.214 | N/A | N/A | -- | -- | 0.214 | Maximum Detect |
| **Soil Invertebrates (Earthworms)** | | | | | | | | | | | | | | | | |
| Upper | V | mg/kg dw | 1 / 1 | 100 | 9.408 | 9.408 | N/A | N/A | 9.408 | 9.408 | N/A | N/A | -- | -- | 9.408 | Maximum Detect |
| Middle | V | mg/kg dw | 2 / 2 | 100 | 6.007 | 8.712 | N/A | N/A | 7.36 | 7.36 | 3.659 | 1.913 | -- | -- | 8.712 | Maximum Detect |
| Lower | V | mg/kg dw | 1 / 1 | 100 | 6.081 | 6.081 | N/A | N/A | 6.081 | 6.081 | N/A | N/A | -- | -- | 6.081 | Maximum Detect |
| **Small Mammals** | | | | | | | | | | | | | | | | |
| Upper | V | mg/kg dw | 0 / 2 | 0 | N/A | N/A | 12.5 | 12.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Middle | V | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 12.5 | 12.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | V | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 12.5 | 12.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Notes:**
"--" = not applicable
% = percent
EPC = exposure point concentration
mg/kg dw= milligrams per kilograms dry weight
N/A = not available
PCB = polychlorinated biphenyl
TOC = total organic carbon
UCL = upper confidence limit

**Table E2-4**
**Summary Statistics - Sitewide Soil and Reference Soil**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Sitewide** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 88 | / | 88 | 100 | 4.3 | 55.2 | N/A | N/A | 17.5 | 13.15 | 128.2 | 11.32 | 22.76 | 95% Chebyshev (Mean, Sd) UCL | 22.76 | UCL |
| Lead | mg/kg | 88 | / | 88 | 100 | 7.3 | 106 | N/A | N/A | 29.34 | 23.15 | 439.6 | 20.97 | 32.7 | 95% H-UCL | 32.7 | UCL |
| Mercury | mg/kg | 833 | / | 845 | 99 | 0.0064 | 21.7 | 0.0068 | 0.076 | 1.13 | 0.24 | 4.706 | 2.169 | 1.438 | 95% KM (Chebyshev) UCL | 1.438 | UCL |
| Vanadium | mg/kg | 88 | / | 88 | 100 | 4.3 | 45.4 | N/A | N/A | 19.71 | 18.65 | 71.56 | 8.459 | 21.21 | 95% Student's-t UCL | 21.21 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 756 | / | 1202 | 63 | 0.028 | 206.5 | 0 | 0.14 | 5.709 | 1.55 | 155.3 | 12.46 | 6.54 | 99% KM (Chebyshev) UCL | 6.54 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 1184 | 0 | N/A | N/A | 0.034 | 8.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 1184 | 0 | N/A | N/A | 0.034 | 17 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 1 | / | 1184 | 0 | 0.48 | 0.48 | 0.034 | 8.5 | 0.48 | 0.48 | N/A | N/A | -- | -- | 0.48 | Maximum Detect |
| Aroclor-1242 | mg/kg | 85 | / | 1184 | 7 | 0.045 | 11 | 0.034 | 8.5 | 1.028 | 0.48 | 2.504 | 1.582 | NA | NA | 11 | Maximum Detect |
| Aroclor-1248 | mg/kg | 143 | / | 1184 | 12 | 0.034 | 16 | 0.034 | 8.5 | 1.841 | 0.73 | 8.095 | 2.845 | NA | NA | 16 | Maximum Detect |
| Aroclor-1254 | mg/kg | 614 | / | 1184 | 52 | 0.037 | 120 | 0.034 | 0.38 | 3.153 | 0.925 | 51.35 | 7.166 | 2.334 | 95% KM (Chebyshev) UCL | 2.334 | UCL |
| Aroclor-1260 | mg/kg | 738 | / | 1184 | 62 | 0.028 | 69.5 | 0.034 | 0.099 | 2.245 | 0.72 | 21.14 | 4.598 | 1.889 | 95% KM (Chebyshev) UCL | 1.889 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 855 | 0 | N/A | N/A | 0.034 | 4.2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 427 | / | 1149 | 37 | 0.038 | 17 | 0.034 | 4.2 | 0.537 | 0.265 | 1.068 | 1.033 | 0.312 | 95% KM (Chebyshev) UCL | 0.312 | UCL |
| BZ#105 | mg/kg | 95 | / | 102 | 93 | 0.0023 | 0.14 | 0.0014 | 0.0017 | 0.0479 | 0.04 | 0.00127 | 0.0357 | 0.0514 | 95% KM Approximate Gamma UCL | 0.0514 | UCL |
| BZ#114 | mg/kg | 1 | / | 102 | 1 | 0.0089 | 0.0089 | 0.0014 | 0.018 | 0.0089 | 0.0089 | N/A | N/A | -- | -- | 0.0089 | Maximum Detect |
| BZ#118 | mg/kg | 98 | / | 102 | 96 | 0.0019 | 0.28 | 0.0014 | 0.0015 | 0.0888 | 0.079 | 0.00451 | 0.0672 | 0.0978 | 95% KM Approximate Gamma UCL | 0.0978 | UCL |
| BZ#123 | mg/kg | 2 | / | 102 | 2 | 0.0041 | 0.023 | 0.0014 | 0.018 | 0.0136 | 0.0136 | 0.00017861 | 0.0134 | -- | -- | 0.023 | Maximum Detect |
| BZ#126 | mg/kg | 11 | / | 102 | 11 | 0.002 | 0.044 | 0.0014 | 0.018 | 0.0168 | 0.016 | 0.00022807 | 0.0151 | 0.0044 | 95% KM (t) UCL | 0.0044 | UCL |
| BZ#153 | mg/kg | 99 | / | 102 | 97 | 0.0032 | 0.42 | 0.0028 | 0.003 | 0.149 | 0.13 | 0.0108 | 0.104 | 0.164 | 95% KM Approximate Gamma UCL | 0.164 | UCL |
| BZ#156 | mg/kg | 91 | / | 102 | 89 | 0.0019 | 0.048 | 0.0014 | 0.0017 | 0.0177 | 0.016 | 0.00012583 | 0.0112 | 0.0181 | 95% KM Approximate Gamma UCL | 0.0181 | UCL |
| BZ#157 | mg/kg | 31 | / | 102 | 30 | 0.0018 | 0.017 | 0.0014 | 0.018 | 0.00705 | 0.0068 | 1.2604E-05 | 0.00355 | 0.0043 | 95% KM (t) UCL | 0.0043 | UCL |
| BZ#167 | mg/kg | 13 | / | 102 | 13 | 0.0027 | 0.015 | 0.0028 | 0.037 | 0.00802 | 0.007 | 0.00001941 | 0.00441 | 0.00457 | 95% KM (t) UCL | 0.00457 | UCL |
| BZ#169 | mg/kg | 0 | / | 102 | 0 | N/A | N/A | 0.0014 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 1 | / | 102 | 1 | 0.0015 | 0.0015 | 0.0014 | 0.018 | 0.0015 | 0.0015 | N/A | N/A | -- | -- | 0.0015 | Maximum Detect |
| BZ#77 | mg/kg | 6 | / | 102 | 6 | 0.0019 | 0.315 | 0.0014 | 0.018 | 0.0711 | 0.015 | 0.0149 | 0.122 | 0.0171 | 95% KM Approximate Gamma UCL | 0.0171 | UCL |
| BZ#81 | mg/kg | 0 | / | 102 | 0 | N/A | N/A | 0.0028 | 0.037 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 100 | / | 100 | 100 | 11.8 | 425 | N/A | N/A | 90.69 | 76.25 | 3570 | 59.75 | 100.3 | 95% Approximate Gamma UCL | 100.3 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 72 | / | 100 | 72 | 2.7 | 156 | 0.34 | 70.8 | 37.51 | 33.4 | 759.4 | 27.56 | 35.06 | 95% KM Approximate Gamma UCL | 35.06 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 89 | / | 100 | 89 | 0.18 | 54.5 | 0.17 | 13.5 | 8.724 | 7.84 | 53.55 | 7.318 | 9.255 | 95% KM Approximate Gamma UCL | 9.255 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 78 | / | 100 | 78 | 0.19 | 3.19 | 0.119 | 5.6 | 1.172 | 1.08 | 0.397 | 0.63 | 1.139 | 95% GROS Approximate Gamma UCL | 1.139 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 94 | / | 100 | 94 | 0.59 | 183 | 0.082 | 6.63 | 29.15 | 24.5 | 683.1 | 26.14 | 32.4 | 95% KM Approximate Gamma UCL | 32.4 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 86 | / | 100 | 86 | 0.195 | 17.6 | 0.928 | 5.81 | 3.403 | 2.7 | 7.843 | 2.8 | 3.531 | 95% GROS Approximate Gamma UCL | 3.531 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 90 | / | 100 | 90 | 1.1 | 372 | 0.25 | 23.9 | 46.69 | 13.95 | 5102 | 71.43 | 72.47 | 95% KM (Chebyshev) UCL | 72.47 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 83 | / | 100 | 83 | 0.316 | 8.21 | 1.07 | 7.81 | 2.961 | 2.58 | 3.1 | 1.761 | 3.023 | 95% GROS Approximate Gamma UCL | 3.023 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 35 | / | 100 | 35 | 0.223 | 2.665 | 0.11 | 6.71 | 0.864 | 0.825 | 0.233 | 0.482 | 0.624 | 95% KM (t) UCL | 0.624 | UCL |
| 1,2,3,7,8-pecdd | pg/g | 30 | / | 100 | 30 | 0.283 | 1.56 | 0.093 | 2.41 | 0.64 | 0.551 | 0.1 | 0.316 | 0.256 | KM Student's t | 0.256 | UCL |
| 1,2,3,7,8-pecdf | pg/g | 62 | / | 100 | 62 | 0.4 | 1140 | 0.13 | 780 | 25.81 | 6.295 | 20707 | 143.9 | 66.57 | 95% KM (Chebyshev) UCL | 66.57 | UCL |
| 2,3,4,6,7,8-hxcdf | pg/g | 79 | / | 100 | 79 | 0.3 | 16.3 | 0.097 | 15.5 | 4.503 | 3.63 | 9.645 | 3.106 | 4.483 | 95% KM Approximate Gamma UCL | 4.483 | UCL |
| 2,3,4,7,8-pecdf | pg/g | 91 | / | 100 | 91 | 0.66 | 73.7 | 0.14 | 15.3 | 12.8 | 10.4 | 113.8 | 10.67 | 13.8 | 95% KM Approximate Gamma UCL | 13.8 | UCL |
| 2,3,7,8-tcdd | pg/g | 10 | / | 100 | 10 | 0.136 | 0.75 | 0.0722 | 13.9 | 0.323 | 0.255 | 0.0397 | 0.199 | 0.135 | 95% KM (t) UCL | 0.135 | UCL |
| 2,3,7,8-tcdf | pg/g | 93 | / | 100 | 93 | 1.24 | 683 | 0.58 | 602 | 56.22 | 22.7 | 12229 | 110.6 | 73.19 | KM H-UCL | 73.19 | UCL |

**Table E2-4**
**Summary Statistics - Sitewide Soil and Reference Soil**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 145 | / | 145 | 100 | 6.29 | 37 | N/A | N/A | 18.57 | 19 | 31.66 | 5.627 | 19.35 | 95% Student's-t UCL | 19.35 | UCL |
| TOC by lloyd kahn | mg/kg | 1015 | / | 1015 | 100 | 1100 | 93700 | N/A | N/A | 16074 | 14600 | 90030468 | 9488 | 16551 | 95% Approximate Gamma UCL | 16551 | UCL |
| **Reference Area** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/kg | 1 | / | 1 | 100 | 10.7 | 10.7 | N/A | N/A | 10.7 | 10.7 | N/A | N/A | -- | -- | 10.7 | Maximum Detect |
| Lead | mg/kg | 1 | / | 1 | 100 | 16 | 16 | N/A | N/A | 16 | 16 | N/A | N/A | -- | -- | 16 | Maximum Detect |
| Mercury | mg/kg | 14 | / | 14 | 100 | 0.024 | 0.11 | N/A | N/A | 0.0424 | 0.0335 | 0.00057842 | 0.0241 | 0.0558 | 95% Adjusted Gamma UCL | 0.0558 | UCL |
| Vanadium | mg/kg | 1 | / | 1 | 100 | 13.5 | 13.5 | N/A | N/A | 13.5 | 13.5 | N/A | N/A | -- | -- | 13.5 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.038 | 0.051 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1016 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.038 | 0.051 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.038 | 0.051 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.038 | 0.051 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.038 | 0.051 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1248 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.038 | 0.051 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.038 | 0.051 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1260 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.038 | 0.051 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1262 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.038 | 0.051 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 0 | / | 14 | 0 | N/A | N/A | 0.038 | 0.051 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TOC by lloyd kahn | mg/kg | 14 | / | 14 | 100 | 6910 | 39100 | N/A | N/A | 21004 | 20650 | 62808488 | 7925 | 24755 | 95% Student's-t UCL | 24755 | UCL |

**Notes:**
"--" = not applicable
% = percent
EPC = exposure point concentration
mg/kg = milligrams per kilograms
N/A = not available
pg/g = picograms per gram
PCB = polychlorinated biphenyl
TOC = total organic carbon
UCL = upper confidence limit

**Table E2-5**
**Summary Statistics - Sitewide Terrestrial Tissue and Reference Tissue**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | | |
| **Terrestrial Plants** | | | | | | | | | | | | | | | | | | |
| Sitewide | PCBs | mg/kg dw | 3 | / | 54 | 6 | 0.257 | 0.437 | 0.0276 | 0.348 | 0.335 | 0.31 | 0.00851 | 0.0922 | -- | -- | 0.437 | Maximum Detect |
| Reference Area | PCBs | mg/kg dw | 0 | / | 14 | 0 | N/A | N/A | 0.0428 | 0.278 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Terrestrial Insects** | | | | | | | | | | | | | | | | | | |
| Sitewide | PCBs | mg/kg dw | 0 | / | 18 | 0 | N/A | N/A | 0.0809 | 0.192 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Reference Area | PCBs | mg/kg dw | 0 | / | 6 | 0 | N/A | N/A | 0.126 | 0.159 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Soil Invertebrates (Earthworms)** | | | | | | | | | | | | | | | | | | |
| Sitewide | PCBs | mg/kg dw | 16 | / | 27 | 59 | 0.913 | 84.64 | 0.0442 | 0.184 | 17.94 | 7.41 | 550.3 | 23.46 | 22.71 | 95% Gamma Adjusted KM-UCL | 22.71 | UCL |
| Reference Area | PCBs | mg/kg dw | 0 | / | 9 | 0 | N/A | N/A | 0.136 | 0.242 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Small Mammals** | | | | | | | | | | | | | | | | | | |
| Sitewide | PCBs | mg/kg dw | 30 | / | 44 | 68 | 0.13 | 38.13 | 0.05 | 0.175 | 4.631 | 1.355 | 60.77 | 7.795 | 5.993 | 95% Gamma Adjusted KM-UCL | 5.993 | UCL |
| Reference Area | PCBs | mg/kg dw | 1 | / | 10 | 10 | 14.28 | 14.28 | 0.05 | 0.156 | 14.28 | 14.28 | N/A | N/A | -- | -- | 14.28 | Maximum Detect |
| **Mercury** | | | | | | | | | | | | | | | | | | |
| **Terrestrial Plants** | | | | | | | | | | | | | | | | | | |
| Sitewide | Hg | mg/kg dw | 2 | / | 54 | 4 | 0.0238 | 0.0598 | 0.00894 | 0.0652 | 0.0418 | 0.0418 | 0.00064625 | 0.0254 | -- | -- | 0.0598 | Maximum Detect |
| Reference Area | Hg | mg/kg dw | 2 | / | 14 | 14 | 0.0453 | 0.0473 | 0.0127 | 0.0825 | 0.0463 | 0.0463 | 0.000002063 | 0.00144 | -- | -- | 0.0473 | Maximum Detect |
| **Terrestrial Insects** | | | | | | | | | | | | | | | | | | |
| Sitewide | Hg | mg/kg dw | 5 | / | 20 | 25 | 0.0207 | 0.0631 | 0.0176 | 0.0286 | 0.0378 | 0.035 | 0.00024264 | 0.0156 | 0.0278 | 95% KM (t) UCL | 0.0278 | UCL |
| Reference Area | Hg | mg/kg dw | 0 | / | 6 | 0 | N/A | N/A | 0.0165 | 0.0234 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Soil Invertebrates (Earthworms)** | | | | | | | | | | | | | | | | | | |
| Sitewide | Hg | mg/kg dw | 27 | / | 27 | 100 | 0.11 | 7.362 | N/A | N/A | 2.216 | 0.952 | 4.932 | 2.221 | 3.339 | 95% Adjusted Gamma UCL | 3.339 | UCL |
| Reference Area | Hg | mg/kg dw | 9 | / | 9 | 100 | 0.219 | 0.533 | N/A | N/A | 0.343 | 0.311 | 0.0123 | 0.111 | 0.411 | 95% Student's-t UCL | 0.411 | UCL |
| **Small Mammals** | | | | | | | | | | | | | | | | | | |
| Sitewide | Hg | mg/kg dw | 18 | / | 44 | 41 | 0.0203 | 0.75 | 0.0131 | 0.0225 | 0.126 | 0.0688 | 0.0294 | 0.171 | 0.0689 | KM H-UCL | 0.0689 | UCL |
| Reference Area | Hg | mg/kg dw | 1 | / | 10 | 10 | 0.0406 | 0.0406 | 0.0159 | 0.0216 | 0.0406 | 0.0406 | N/A | N/A | -- | -- | 0.0406 | Maximum Detect |
| **Barium** | | | | | | | | | | | | | | | | | | |
| **Terrestrial Plants** | | | | | | | | | | | | | | | | | | |
| Sitewide | Ba | mg/kg dw | 5 | / | 6 | 83 | 1.781 | 250.8 | 1.36 | 1.36 | 78.14 | 43.97 | 9699 | 98.48 | -- | -- | 250.8 | Maximum Detect |
| Reference Area | Ba | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 787.4 | 787.4 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Terrestrial Insects** | | | | | | | | | | | | | | | | | | |
| Sitewide | Ba | mg/kg dw | 2 | / | 2 | 100 | 3.252 | 8.856 | N/A | N/A | 6.054 | 6.054 | 15.7 | 3.963 | -- | -- | 8.856 | Maximum Detect |
| **Soil Invertebrates (Earthworms)** | | | | | | | | | | | | | | | | | | |
| Sitewide | Ba | mg/kg dw | 4 | / | 4 | 100 | 54 | 228.9 | N/A | N/A | 130.6 | 119.7 | 6102 | 78.12 | -- | -- | 228.9 | Maximum Detect |
| Reference Area | Ba | mg/kg dw | 1 | / | 1 | 100 | 41.59 | 41.59 | N/A | N/A | 41.59 | 41.59 | N/A | N/A | -- | -- | 41.59 | Maximum Detect |
| **Small Mammals** | | | | | | | | | | | | | | | | | | |
| Sitewide | Ba | mg/kg dw | 4 | / | 4 | 100 | 9.375 | 43.44 | N/A | N/A | 18.91 | 11.41 | 270.3 | 16.44 | -- | -- | 43.44 | Maximum Detect |
| Reference Area | Ba | mg/kg dw | 1 | / | 1 | 100 | 8.125 | 8.125 | N/A | N/A | 8.125 | 8.125 | N/A | N/A | -- | -- | 8.125 | Maximum Detect |
| **Cobalt** | | | | | | | | | | | | | | | | | | |
| **Terrestrial Plants** | | | | | | | | | | | | | | | | | | |
| Sitewide | Co | mg/kg dw | 2 | / | 6 | 33 | 0.385 | 0.394 | 0.0377 | 43.86 | 0.389 | 0.389 | 0.000041272 | 0.00642 | -- | -- | 0.394 | Maximum Detect |
| Reference Area | Co | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 39.37 | 39.37 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Terrestrial Insects** | | | | | | | | | | | | | | | | | | |
| Sitewide | Co | mg/kg dw | 0 | / | 2 | 0 | N/A | N/A | 34.97 | 36.9 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Soil Invertebrates (Earthworms)** | | | | | | | | | | | | | | | | | | |
| Sitewide | Co | mg/kg dw | 4 | / | 4 | 100 | 4.417 | 5.682 | N/A | N/A | 5.27 | 5.49 | 0.336 | 0.58 | -- | -- | 5.682 | Maximum Detect |
| Reference Area | Co | mg/kg dw | 1 | / | 1 | 100 | 4.867 | 4.867 | N/A | N/A | 4.867 | 4.867 | N/A | N/A | -- | -- | 4.867 | Maximum Detect |
| **Small Mammals** | | | | | | | | | | | | | | | | | | |
| Sitewide | Co | mg/kg dw | 0 | / | 4 | 0 | N/A | N/A | 31.25 | 31.25 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Reference Area | Co | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 31.25 | 31.25 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Chromium** | | | | | | | | | | | | | | | | | | |
| **Terrestrial Plants** | | | | | | | | | | | | | | | | | | |
| Sitewide | Cr | mg/kg dw | 5 | / | 6 | 83 | 0.472 | 2.397 | 17.54 | 17.54 | 0.986 | 0.641 | 0.643 | 0.802 | -- | -- | 2.397 | Maximum Detect |
| Reference Area | Cr | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 15.75 | 15.75 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Terrestrial Insects** | | | | | | | | | | | | | | | | | | |
| Sitewide | Cr | mg/kg dw | 0 | / | 2 | 0 | N/A | N/A | 13.99 | 14.76 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Soil Invertebrates (Earthworms)** | | | | | | | | | | | | | | | | | | |
| Sitewide | Cr | mg/kg dw | 4 | / | 4 | 100 | 10.23 | 19.43 | N/A | N/A | 14.1 | 13.37 | 14.99 | 3.872 | -- | -- | 19.43 | Maximum Detect |
| Reference Area | Cr | mg/kg dw | 1 | / | 1 | 100 | 4.867 | 4.867 | N/A | N/A | 4.867 | 4.867 | N/A | N/A | -- | -- | 4.867 | Maximum Detect |
| **Small Mammals** | | | | | | | | | | | | | | | | | | |
| Sitewide | Cr | mg/kg dw | 4 | / | 4 | 100 | 2.125 | 4.688 | N/A | N/A | 3.281 | 3.156 | 1.663 | 1.289 | -- | -- | 4.688 | Maximum Detect |
| Reference Area | Cr | mg/kg dw | 1 | / | 1 | 100 | 4.375 | 4.375 | N/A | N/A | 4.375 | 4.375 | N/A | N/A | -- | -- | 4.375 | Maximum Detect |
| **Lead** | | | | | | | | | | | | | | | | | | |

**Table E2-5**
**Summary Statistics - Sitewide Terrestrial Tissue and Reference Tissue**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Terrestrial Plants** | | | | | | | | | | | | | | | | | | |
| Sitewide | Pb | mg/kg dw | 1 | / | 6 | 17 | 0.103 | 0.103 | 0.0154 | 12.82 | 0.103 | 0.103 | N/A | N/A | -- | -- | 0.103 | Maximum Detect |
| Reference Area | Pb | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 7.874 | 7.874 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Terrestrial Insects** | | | | | | | | | | | | | | | | | | |
| Sitewide | Pb | mg/kg dw | 1 | / | 2 | 50 | 0.245 | 0.245 | 7.38 | 7.38 | 0.245 | 0.245 | N/A | N/A | -- | -- | 0.245 | Maximum Detect |
| **Soil Invertebrates (Earthworms)** | | | | | | | | | | | | | | | | | | |
| Sitewide | Pb | mg/kg dw | 4 | / | 4 | 100 | 15.88 | 115.7 | N/A | N/A | 42.12 | 18.44 | 2411 | 49.11 | -- | -- | 115.7 | Maximum Detect |
| Reference Area | Pb | mg/kg dw | 1 | / | 1 | 100 | 6.195 | 6.195 | N/A | N/A | 6.195 | 6.195 | N/A | N/A | -- | -- | 6.195 | Maximum Detect |
| **Small Mammals** | | | | | | | | | | | | | | | | | | |
| Sitewide | Pb | mg/kg dw | 3 | / | 4 | 75 | 0.594 | 5.313 | 6.25 | 6.25 | 3.219 | 3.75 | 5.778 | 2.404 | -- | -- | 5.313 | Maximum Detect |
| Reference Area | Pb | mg/kg dw | 1 | / | 1 | 100 | 0.781 | 0.781 | N/A | N/A | 0.781 | 0.781 | N/A | N/A | -- | -- | 0.781 | Maximum Detect |
| **Vanadium** | | | | | | | | | | | | | | | | | | |
| **Terrestrial Plants** | | | | | | | | | | | | | | | | | | |
| Sitewide | V | mg/kg dw | 6 | / | 6 | 100 | 0.0753 | 0.122 | N/A | N/A | 0.102 | 0.109 | 0.00036389 | 0.0191 | -- | -- | 0.122 | Maximum Detect |
| Reference Area | V | mg/kg dw | 1 | / | 1 | 100 | 15.75 | 15.75 | N/A | N/A | 15.75 | 15.75 | N/A | N/A | -- | -- | 15.75 | Maximum Detect |
| **Terrestrial Insects** | | | | | | | | | | | | | | | | | | |
| Sitewide | V | mg/kg dw | 2 | / | 2 | 100 | 0.0944 | 0.214 | N/A | N/A | 0.154 | 0.154 | 0.00715 | 0.0846 | -- | -- | 0.214 | Maximum Detect |
| **Soil Invertebrates (Earthworms)** | | | | | | | | | | | | | | | | | | |
| Sitewide | V | mg/kg dw | 4 | / | 4 | 100 | 6.007 | 9.408 | N/A | N/A | 7.552 | 7.397 | 3.113 | 1.764 | -- | -- | 9.408 | Maximum Detect |
| Reference Area | V | mg/kg dw | 1 | / | 1 | 100 | 5.752 | 5.752 | N/A | N/A | 5.752 | 5.752 | N/A | N/A | -- | -- | 5.752 | Maximum Detect |
| **Small Mammals** | | | | | | | | | | | | | | | | | | |
| Sitewide | V | mg/kg dw | 0 | / | 4 | 0 | N/A | N/A | 12.5 | 12.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Reference Area | V | mg/kg dw | 1 | / | 1 | 100 | 0.875 | 0.875 | N/A | N/A | 0.875 | 0.875 | N/A | N/A | -- | -- | 0.875 | Maximum Detect |

**Notes:**
"--" = not applicable
% = percent
EPC = exposure point concentration
mg/kg dw= milligrams per kilograms dry weight
N/A = not available
PCB = polychlorinated biphenyl
TOC = total organic carbon
UCL = upper confidence limit

**Table E2-6**
**Summary Statistics by Reach - Sediment**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Reach 1** | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Barium | mg/kg | 2 / 2 | 100 | 160 | 220 | N/A | N/A | 190 | 190 | 1800 | 42.43 | -- | -- | 220 | Maximum Detect |
| Cobalt | mg/kg | 2 / 2 | 100 | 16 | 21 | N/A | N/A | 18.5 | 18.5 | 12.5 | 3.536 | -- | -- | 21 | Maximum Detect |
| Chromium | mg/kg | 2 / 2 | 100 | 42 | 46 | N/A | N/A | 44 | 44 | 8 | 2.828 | -- | -- | 46 | Maximum Detect |
| Lead | mg/kg | 2 / 2 | 100 | 57 | 110 | N/A | N/A | 83.5 | 83.5 | 1405 | 37.48 | -- | -- | 110 | Maximum Detect |
| Mercury | mg/kg | 2 / 2 | 100 | 0.51 | 0.58 | N/A | N/A | 0.545 | 0.545 | 0.00245 | 0.0495 | -- | -- | 0.58 | Maximum Detect |
| Vanadium | mg/kg | 2 / 2 | 100 | 52 | 53 | N/A | N/A | 52.5 | 52.5 | 0.5 | 0.707 | -- | -- | 53 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 15 / 16 | 94 | 0.43 | 41 | 0.17 | 0.17 | 5.596 | 2.24 | 101.4 | 10.07 | 15.98 | 95% KM (Chebyshev) UCL | 15.98 | UCL |
| Aroclor-1016 | mg/kg | 0 / 16 | 0 | N/A | N/A | 0.069 | 1.3 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 / 16 | 0 | N/A | N/A | 0.14 | 2.7 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 / 16 | 0 | N/A | N/A | 0.069 | 1.3 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 4 / 16 | 25 | 0.29 | 12 | 0.069 | 0.34 | 3.453 | 0.76 | 32.6 | 5.709 | -- | -- | 12 | Maximum Detect |
| Aroclor-1248 | mg/kg | 11 / 16 | 69 | 0.12 | 1.9 | 0.069 | 1.3 | 0.673 | 0.43 | 0.283 | 0.532 | 0.741 | 95% KM (t) UCL | 0.741 | UCL |
| Aroclor-1254 | mg/kg | 15 / 16 | 94 | 0.17 | 16 | 0.085 | 0.085 | 2.495 | 1.2 | 15.48 | 3.934 | 6.063 | a Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 6.063 | UCL |
| Aroclor-1260 | mg/kg | 15 / 16 | 94 | 0.14 | 13 | 0.085 | 0.085 | 1.687 | 0.76 | 10.22 | 3.197 | 4.989 | 95% KM (Chebyshev) UCL | 4.989 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | |
| TOC by lloyd kahn | mg/kg | 13 / 16 | 81 | 1200 | 36000 | 500 | 500 | 7808 | 5100 | 81839103 | 9046 | 13738 | 95% KM Adjusted Gamma UCL | 13738 | UCL |
| **Reach 2** | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Barium | mg/kg | 4 / 4 | 100 | 15.9 | 172 | N/A | N/A | 86.23 | 78.5 | 4682 | 68.43 | -- | -- | 172 | Maximum Detect |
| Cobalt | mg/kg | 4 / 4 | 100 | 2.7 | 7.8 | N/A | N/A | 5.45 | 5.65 | 4.87 | 2.207 | -- | -- | 7.8 | Maximum Detect |
| Chromium | mg/kg | 4 / 4 | 100 | 6 | 16 | N/A | N/A | 9.85 | 8.7 | 19.93 | 4.464 | -- | -- | 16 | Maximum Detect |
| Lead | mg/kg | 3 / 4 | 75 | 9.1 | 50.3 | 3.8 | 3.8 | 25.03 | 15.7 | 489.7 | 22.13 | -- | -- | 50.3 | Maximum Detect |
| Mercury | mg/kg | 6 / 7 | 86 | 0.04 | 46.6 | 0.011 | 0.011 | 8.835 | 1.715 | 343.8 | 18.54 | -- | -- | 46.6 | Maximum Detect |
| Vanadium | mg/kg | 4 / 4 | 100 | 4.7 | 13.7 | N/A | N/A | 9.625 | 10.05 | 19.94 | 4.466 | -- | -- | 13.7 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 18 / 39 | 46 | 0.116 | 95 | 0.038 | 0.12 | 11.11 | 2.48 | 534.3 | 23.12 | 16.8 | 95% KM (Chebyshev) UCL | 16.8 | UCL |
| Aroclor-1016 | mg/kg | 0 / 39 | 0 | N/A | N/A | 0.038 | 8.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 / 39 | 0 | N/A | N/A | 0.038 | 8.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 12 / 39 | 31 | 0.063 | 75 | 0.038 | 0.24 | 12.62 | 2.1 | 498.8 | 22.33 | 12.37 | a Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 12.37 | UCL |
| Aroclor-1242 | mg/kg | 3 / 39 | 8 | 0.2 | 0.48 | 0.038 | 8.5 | 0.35 | 0.37 | 0.0199 | 0.141 | -- | -- | 0.48 | Maximum Detect |
| Aroclor-1248 | mg/kg | 3 / 39 | 8 | 0.054 | 0.67 | 0.038 | 8.5 | 0.391 | 0.45 | 0.0974 | 0.312 | -- | -- | 0.67 | Maximum Detect |
| Aroclor-1254 | mg/kg | 8 / 39 | 21 | 0.14 | 1.2 | 0.038 | 8.5 | 0.621 | 0.6 | 0.113 | 0.336 | 0.26 | 95% KM (t) UCL | 0.26 | UCL |
| Aroclor-1260 | mg/kg | 14 / 39 | 36 | 0.053 | 20 | 0.038 | 5.5 | 2.904 | 0.595 | 29.88 | 5.466 | 3.189 | a Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 3.189 | UCL |
| Aroclor-1262 | mg/kg | 0 / 33 | 0 | N/A | N/A | 0.038 | 5.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 2 / 33 | 6 | 0.085 | 0.48 | 0.038 | 5.5 | 0.283 | 0.283 | 0.078 | 0.279 | -- | -- | 0.48 | Maximum Detect |
| BZ#105 | mg/kg | 1 / 5 | 20 | 0.0086 | 0.0086 | 0.0016 | 0.0058 | 0.0086 | 0.0086 | N/A | N/A | -- | -- | 0.0086 | Maximum Detect |
| BZ#114 | mg/kg | 0 / 5 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 3 / 5 | 60 | 0.0022 | 0.025 | 0.0016 | 0.0021 | 0.0134 | 0.013 | 0.00013008 | 0.0114 | -- | -- | 0.025 | Maximum Detect |

**Table E2-6**
**Summary Statistics by Reach - Sediment**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| BZ#123 | mg/kg | 0 / 5 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 2 / 5 | 40 | 0.0064 | 0.012 | 0.0016 | 0.0021 | 0.0092 | 0.0092 | 0.00001568 | 0.00396 | -- | -- | 0.012 | Maximum Detect |
| BZ#153 | mg/kg | 3 / 5 | 60 | 0.0044 | 0.11 | 0.0032 | 0.0042 | 0.0585 | 0.061 | 0.00279 | 0.0528 | -- | -- | 0.11 | Maximum Detect |
| BZ#156 | mg/kg | 1 / 5 | 20 | 0.0035 | 0.0035 | 0.0016 | 0.0058 | 0.0035 | 0.0035 | N/A | N/A | -- | -- | 0.0035 | Maximum Detect |
| BZ#157 | mg/kg | 0 / 5 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0 / 5 | 0 | N/A | N/A | 0.0032 | 0.012 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 / 5 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 / 5 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 / 5 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 / 5 | 0 | N/A | N/A | 0.0032 | 0.012 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 3 / 3 | 100 | 2.47 | 53.6 | N/A | N/A | 23.49 | 14.4 | 715.5 | 26.75 | -- | -- | 53.6 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 1 / 3 | 33 | 102 | 102 | 0.55 | 3.5 | 102 | 102 | N/A | N/A | -- | -- | 102 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 2 / 3 | 67 | 0.44 | 43.8 | 0.17 | 0.17 | 22.12 | 22.12 | 940 | 30.66 | -- | -- | 43.8 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 0 / 3 | 0 | N/A | N/A | 0.14 | 0.92 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,7,8-hxcdf | pg/g | 2 / 3 | 67 | 0.65 | 114 | 0.11 | 0.11 | 57.33 | 57.33 | 6424 | 80.15 | -- | -- | 114 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 3 / 3 | 100 | 0.13 | 3.08 | N/A | N/A | 1.293 | 0.67 | 2.467 | 1.571 | -- | -- | 3.08 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 2 / 3 | 67 | 0.59 | 28.2 | 0.11 | 0.11 | 14.4 | 14.4 | 381.2 | 19.52 | -- | -- | 28.2 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 2 / 3 | 67 | 0.63 | 2.64 | 0.12 | 0.12 | 1.635 | 1.635 | 2.02 | 1.421 | -- | -- | 2.64 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 1 / 3 | 33 | 3.91 | 3.91 | 0.15 | 0.26 | 3.91 | 3.91 | N/A | N/A | -- | -- | 3.91 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 0 / 3 | 0 | N/A | N/A | 0.13 | 0.54 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 2 / 3 | 67 | 0.32 | 19.7 | 0.17 | 0.17 | 10.01 | 10.01 | 187.8 | 13.7 | -- | -- | 19.7 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 1 / 3 | 33 | 9.49 | 9.49 | 0.13 | 0.23 | 9.49 | 9.49 | N/A | N/A | -- | -- | 9.49 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 2 / 3 | 67 | 0.28 | 19.6 | 0.17 | 0.17 | 9.94 | 9.94 | 186.6 | 13.66 | -- | -- | 19.6 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 0 / 3 | 0 | N/A | N/A | 0.097 | 1.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 2 / 3 | 67 | 0.63 | 64.2 | 0.15 | 0.15 | 32.42 | 32.42 | 2021 | 44.95 | -- | -- | 64.2 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | |
| Solids, percent | % | 33 / 33 | 100 | 52.2 | 88.5 | N/A | N/A | 70.99 | 72.2 | 107.8 | 10.38 | 74.05 | 95% Student's-t UCL | 74.05 | UCL |
| TOC by lloyd kahn | mg/kg | 35 / 38 | 92 | 682 | 52200 | 500 | 500 | 11602 | 7850 | 132400000 | 11506 | 14907 | a Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 14907 | UCL |
| **Reach 3** | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Barium | mg/kg | 2 / 2 | 100 | 47.5 | 82.9 | N/A | N/A | 65.2 | 65.2 | 626.6 | 25.03 | -- | -- | 82.9 | Maximum Detect |
| Cobalt | mg/kg | 2 / 2 | 100 | 7 | 10.5 | N/A | N/A | 8.75 | 8.75 | 6.125 | 2.475 | -- | -- | 10.5 | Maximum Detect |
| Chromium | mg/kg | 2 / 2 | 100 | 16.9 | 20.8 | N/A | N/A | 18.85 | 18.85 | 7.605 | 2.758 | -- | -- | 20.8 | Maximum Detect |
| Lead | mg/kg | 2 / 2 | 100 | 10.2 | 13.9 | N/A | N/A | 12.05 | 12.05 | 6.845 | 2.616 | -- | -- | 13.9 | Maximum Detect |
| Mercury | mg/kg | 10 / 10 | 100 | 0.039 | 1.3 | N/A | N/A | 0.566 | 0.56 | 0.166 | 0.407 | 0.802 | 95% Student's-t UCL | 0.802 | UCL |
| Vanadium | mg/kg | 2 / 2 | 100 | 9.4 | 17.2 | N/A | N/A | 13.3 | 13.3 | 30.42 | 5.515 | -- | -- | 17.2 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 14 / 14 | 100 | 0.23 | 2.83 | N/A | N/A | 1.097 | 0.685 | 0.761 | 0.872 | 1.796 | 95% Adjusted Gamma UCL | 1.796 | UCL |
| Aroclor-1016 | mg/kg | 0 / 14 | 0 | N/A | N/A | 0.036 | 0.22 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 / 14 | 0 | N/A | N/A | 0.036 | 0.22 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 / 14 | 0 | N/A | N/A | 0.036 | 0.22 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 11 / 14 | 79 | 0.036 | 0.83 | 0.047 | 0.05 | 0.271 | 0.25 | 0.0559 | 0.237 | 0.331 | 95% KM (t) UCL | 0.331 | UCL |

**Table E2-6**
**Summary Statistics by Reach - Sediment**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Aroclor-1248 | mg/kg | 2 / 14 | 14 | 0.1 | 0.12 | 0.036 | 0.22 | 0.11 | 0.11 | 0.0002 | 0.0141 | -- | -- | 0.12 | Maximum Detect |
| Aroclor-1254 | mg/kg | 14 / 14 | 100 | 0.11 | 1.2 | N/A | N/A | 0.509 | 0.28 | 0.183 | 0.428 | 1.07 | 95% H-UCL | 1.07 | UCL |
| Aroclor-1260 | mg/kg | 14 / 14 | 100 | 0.084 | 0.83 | N/A | N/A | 0.359 | 0.225 | 0.0742 | 0.272 | 0.571 | 95% Adjusted Gamma UCL | 0.571 | UCL |
| Aroclor-1262 | mg/kg | 0 / 9 | 0 | N/A | N/A | 0.036 | 0.22 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 0 / 9 | 0 | N/A | N/A | 0.036 | 0.22 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#105 | mg/kg | 2 / 2 | 100 | 0.027 | 0.036 | N/A | N/A | 0.0315 | 0.0315 | 0.0000405 | 0.00636 | -- | -- | 0.036 | Maximum Detect |
| BZ#114 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0035 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 2 / 2 | 100 | 0.0505 | 0.072 | N/A | N/A | 0.0613 | 0.0613 | 0.00023113 | 0.0152 | -- | -- | 0.072 | Maximum Detect |
| BZ#123 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0035 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0035 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 2 / 2 | 100 | 0.0665 | 0.088 | N/A | N/A | 0.0773 | 0.0773 | 0.00023113 | 0.0152 | -- | -- | 0.088 | Maximum Detect |
| BZ#156 | mg/kg | 2 / 2 | 100 | 0.0088 | 0.011 | N/A | N/A | 0.0099 | 0.0099 | 0.00000242 | 0.00156 | -- | -- | 0.011 | Maximum Detect |
| BZ#157 | mg/kg | 1 / 2 | 50 | 0.0021 | 0.0021 | 0.0035 | 0.0035 | 0.0021 | 0.0021 | N/A | N/A | -- | -- | 0.0021 | Maximum Detect |
| BZ#167 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.0039 | 0.007 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0035 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0035 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0035 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.0039 | 0.007 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 2 / 2 | 100 | 20.1 | 23.4 | N/A | N/A | 21.75 | 21.75 | 5.445 | 2.333 | -- | -- | 23.4 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 2 / 2 | 100 | 11.85 | 13.6 | N/A | N/A | 12.73 | 12.73 | 1.531 | 1.237 | -- | -- | 13.6 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 2 / 2 | 100 | 3.05 | 3.08 | N/A | N/A | 3.065 | 3.065 | 0.00045 | 0.0212 | -- | -- | 3.08 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 2 / 2 | 100 | 0.388 | 0.551 | N/A | N/A | 0.47 | 0.47 | 0.0133 | 0.115 | -- | -- | 0.551 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 2 / 2 | 100 | 9.21 | 10.6 | N/A | N/A | 9.905 | 9.905 | 0.966 | 0.983 | -- | -- | 10.6 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 0 / 2 | 0 | N/A | N/A | 1.01 | 1.05 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,6,7,8-hxcdf | pg/g | 2 / 2 | 100 | 2.835 | 2.92 | N/A | N/A | 2.878 | 2.878 | 0.00361 | 0.0601 | -- | -- | 2.92 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 2 / 2 | 100 | 1.02 | 1.22 | N/A | N/A | 1.12 | 1.12 | 0.02 | 0.141 | -- | -- | 1.22 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 0 / 2 | 0 | N/A | N/A | 0.273 | 0.408 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | pg/g | 2 / 2 | 100 | 0.392 | 0.482 | N/A | N/A | 0.437 | 0.437 | 0.00405 | 0.0636 | -- | -- | 0.482 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 2 / 2 | 100 | 1.93 | 2.12 | N/A | N/A | 2.025 | 2.025 | 0.0181 | 0.134 | -- | -- | 2.12 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 2 / 2 | 100 | 1.89 | 1.935 | N/A | N/A | 1.913 | 1.913 | 0.00101 | 0.0318 | -- | -- | 1.935 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 2 / 2 | 100 | 5.315 | 5.8 | N/A | N/A | 5.558 | 5.558 | 0.118 | 0.343 | -- | -- | 5.8 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 0 / 2 | 0 | N/A | N/A | 0.103 | 0.2 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 2 / 2 | 100 | 9.82 | 12.6 | N/A | N/A | 11.21 | 11.21 | 3.864 | 1.966 | -- | -- | 12.6 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | |
| Moisture, percent | % | 2 / 2 | 100 | 22 | 27 | N/A | N/A | 24.5 | 24.5 | 12.5 | 3.536 | -- | -- | 27 | Maximum Detect |
| Solids, percent | % | 9 / 9 | 100 | 60.4 | 87.6 | N/A | N/A | 73.55 | 75.6 | 58.5 | 7.649 | 78.29 | 95% Student's-t UCL | 78.29 | UCL |
| TOC by lloyd kahn | mg/kg | 11 / 15 | 73 | 2140 | 15000 | 500 | 500 | 6696 | 5855 | 18135684 | 4259 | 7155 | 95% KM (t) UCL | 7155 | UCL |
| **Reach 4** | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Barium | mg/kg | 2 / 2 | 100 | 35.1 | 47.5 | N/A | N/A | 41.3 | 41.3 | 76.88 | 8.768 | -- | -- | 47.5 | Maximum Detect |
| Cobalt | mg/kg | 2 / 2 | 100 | 4.1 | 4.2 | N/A | N/A | 4.15 | 4.15 | 0.005 | 0.0707 | -- | -- | 4.2 | Maximum Detect |
| Chromium | mg/kg | 2 / 2 | 100 | 9.3 | 18.1 | N/A | N/A | 13.7 | 13.7 | 38.72 | 6.223 | -- | -- | 18.1 | Maximum Detect |
| Lead | mg/kg | 2 / 2 | 100 | 10.4 | 12.9 | N/A | N/A | 11.65 | 11.65 | 3.125 | 1.768 | -- | -- | 12.9 | Maximum Detect |

**Table E2-6**
**Summary Statistics by Reach - Sediment**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects / Total | | | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Mercury | mg/kg | 7 | / | 7 | 100 | 0.27 | 1.3 | N/A | N/A | 0.776 | 0.86 | 0.131 | 0.363 | -- | -- | 1.3 | Maximum Detect |
| Vanadium | mg/kg | 2 | / | 2 | 100 | 6.9 | 7.4 | N/A | N/A | 7.15 | 7.15 | 0.125 | 0.354 | -- | -- | 7.4 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 25 | / | 25 | 100 | 0.056 | 23.2 | N/A | N/A | 1.843 | 0.356 | 22.84 | 4.779 | 2.941 | 95% H-UCL | 2.941 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 25 | 0 | N/A | N/A | 0.038 | 5.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 25 | 0 | N/A | N/A | 0.038 | 8.3 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 2 | / | 25 | 8 | 0.04 | 17 | 0.038 | 0.68 | 8.52 | 8.52 | 143.8 | 11.99 | -- | -- | 17 | Maximum Detect |
| Aroclor-1242 | mg/kg | 14 | / | 25 | 56 | 0.024 | 0.73 | 0.05 | 5.5 | 0.263 | 0.185 | 0.0636 | 0.252 | 0.291 | a Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 0.291 | UCL |
| Aroclor-1248 | mg/kg | 7 | / | 25 | 28 | 0.04 | 3.2 | 0.038 | 5.5 | 0.511 | 0.054 | 1.407 | 1.186 | 0.784 | 95% KM (Chebyshev) UCL | 0.784 | UCL |
| Aroclor-1254 | mg/kg | 25 | / | 25 | 100 | 0.026 | 6.2 | N/A | N/A | 0.64 | 0.15 | 2.013 | 1.419 | 0.995 | 95% H-UCL | 0.995 | UCL |
| Aroclor-1260 | mg/kg | 24 | / | 25 | 96 | 0.03 | 1.5 | 5.5 | 5.5 | 0.241 | 0.13 | 0.095 | 0.308 | 0.342 | 95% GROS Adjusted Gamma UCL | 0.342 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.038 | 0.22 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 0 | / | 6 | 0 | N/A | N/A | 0.038 | 0.22 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Solids, percent | % | 6 | / | 6 | 100 | 75.5 | 89 | N/A | N/A | 81.32 | 80.7 | 28.66 | 5.353 | -- | -- | 89 | Maximum Detect |
| TOC by lloyd kahn | mg/kg | 16 | / | 27 | 59 | 680 | 32000 | 500 | 1260 | 10428 | 6900 | 90910273 | 9535 | 10955 | 95% KM Adjusted Gamma UCL | 10955 | UCL |
| **Reach 5** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Barium | mg/kg | 4 | / | 4 | 100 | 24.1 | 251 | N/A | N/A | 85.5 | 33.45 | 12193 | 110.4 | -- | -- | 251 | Maximum Detect |
| Cobalt | mg/kg | 4 | / | 4 | 100 | 2.3 | 34.3 | N/A | N/A | 10.66 | 3.025 | 248.6 | 15.77 | -- | -- | 34.3 | Maximum Detect |
| Chromium | mg/kg | 4 | / | 4 | 100 | 6.3 | 54.7 | N/A | N/A | 19.05 | 7.6 | 565.2 | 23.77 | -- | -- | 54.7 | Maximum Detect |
| Lead | mg/kg | 4 | / | 4 | 100 | 4.3 | 71 | N/A | N/A | 22.31 | 6.975 | 1056 | 32.49 | -- | -- | 71 | Maximum Detect |
| Mercury | mg/kg | 25 | / | 25 | 100 | 0.3 | 1.4 | N/A | N/A | 0.711 | 0.65 | 0.0924 | 0.304 | 0.815 | 95% Student's-t UCL | 0.815 | UCL |
| Vanadium | mg/kg | 4 | / | 4 | 100 | 3.15 | 43.1 | N/A | N/A | 13.66 | 4.2 | 385.8 | 19.64 | -- | -- | 43.1 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 42 | / | 48 | 88 | 0.06 | 5.15 | 0.041 | 0.096 | 0.922 | 0.37 | 1.336 | 1.156 | 1.517 | 95% KM (Chebyshev) UCL | 1.517 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 48 | 0 | N/A | N/A | 0.039 | 0.31 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 48 | 0 | N/A | N/A | 0.039 | 0.31 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 48 | 0 | N/A | N/A | 0.039 | 0.31 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 28 | / | 48 | 58 | 0.025 | 2.4 | 0.041 | 0.066 | 0.353 | 0.155 | 0.244 | 0.494 | 0.369 | a Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 0.369 | UCL |
| Aroclor-1248 | mg/kg | 3 | / | 48 | 6 | 0.017 | 0.39 | 0.039 | 0.31 | 0.226 | 0.27 | 0.0363 | 0.19 | -- | -- | 0.39 | Maximum Detect |
| Aroclor-1254 | mg/kg | 42 | / | 48 | 88 | 0.032 | 1.8 | 0.041 | 0.05 | 0.369 | 0.13 | 0.187 | 0.432 | 0.591 | 95% KM (Chebyshev) UCL | 0.591 | UCL |
| Aroclor-1260 | mg/kg | 42 | / | 48 | 88 | 0.027 | 1.5 | 0.041 | 0.05 | 0.285 | 0.135 | 0.118 | 0.344 | 0.379 | KM H-UCL | 0.379 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 19 | 0 | N/A | N/A | 0.039 | 0.31 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 6 | / | 19 | 32 | 0.05 | 0.25 | 0.039 | 0.31 | 0.125 | 0.099 | 0.00659 | 0.0812 | 0.0991 | 95% KM (t) UCL | 0.0991 | UCL |
| BZ#105 | mg/kg | 3 | / | 3 | 100 | 0.014 | 0.047 | N/A | N/A | 0.0357 | 0.046 | 0.00035233 | 0.0188 | -- | -- | 0.047 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 3 | / | 3 | 100 | 0.023 | 0.098 | N/A | N/A | 0.0707 | 0.091 | 0.00172 | 0.0414 | -- | -- | 0.098 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 3 | / | 3 | 100 | 0.023 | 0.14 | N/A | N/A | 0.091 | 0.11 | 0.00369 | 0.0608 | -- | -- | 0.14 | Maximum Detect |
| BZ#156 | mg/kg | 3 | / | 3 | 100 | 0.0054 | 0.017 | N/A | N/A | 0.0111 | 0.011 | 0.000033653 | 0.0058 | -- | -- | 0.017 | Maximum Detect |

**Table E2-6**
**Summary Statistics by Reach - Sediment**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| BZ#157 | mg/kg | 0 / 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0 / 3 | 0 | N/A | N/A | 0.0034 | 0.013 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 / 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 / 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 / 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 / 3 | 0 | N/A | N/A | 0.0034 | 0.013 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 3 / 3 | 100 | 2.76 | 94.1 | N/A | N/A | 36.59 | 12.9 | 2507 | 50.07 | -- | -- | 94.1 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 3 / 3 | 100 | 1.53 | 36.3 | N/A | N/A | 14.15 | 4.62 | 370.4 | 19.24 | -- | -- | 36.3 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 3 / 3 | 100 | 0.686 | 5.27 | N/A | N/A | 2.311 | 0.978 | 6.587 | 2.566 | -- | -- | 5.27 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 3 / 3 | 100 | 0.127 | 1.63 | N/A | N/A | 0.666 | 0.242 | 0.7 | 0.837 | -- | -- | 1.63 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 3 / 3 | 100 | 1.38 | 18.4 | N/A | N/A | 7.787 | 3.58 | 85.69 | 9.257 | -- | -- | 18.4 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 1 / 3 | 33 | 3.7 | 3.7 | 0.247 | 0.573 | 3.7 | 3.7 | N/A | N/A | -- | -- | 3.7 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 2 / 3 | 67 | 1.23 | 6.9 | 0.545 | 0.545 | 4.065 | 4.065 | 16.07 | 4.009 | -- | -- | 6.9 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 3 / 3 | 100 | 0.33 | 3.97 | N/A | N/A | 1.607 | 0.521 | 4.197 | 2.049 | -- | -- | 3.97 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 0 / 3 | 0 | N/A | N/A | 0.125 | 0.497 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | pg/g | 2 / 3 | 67 | 0.209 | 1.21 | 0.161 | 0.161 | 0.71 | 0.71 | 0.501 | 0.708 | -- | -- | 1.21 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 3 / 3 | 100 | 0.488 | 6.52 | N/A | N/A | 2.809 | 1.42 | 10.54 | 3.247 | -- | -- | 6.52 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 2 / 3 | 67 | 0.785 | 5.7 | 0.332 | 0.332 | 3.243 | 3.243 | 12.08 | 3.475 | -- | -- | 5.7 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 2 / 3 | 67 | 3.09 | 13 | 0.877 | 0.877 | 8.045 | 8.045 | 49.1 | 7.007 | -- | -- | 13 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 2 / 3 | 67 | 0.147 | 0.5 | 0.103 | 0.103 | 0.324 | 0.324 | 0.0623 | 0.25 | -- | -- | 0.5 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 3 / 3 | 100 | 1.91 | 33.3 | N/A | N/A | 14.8 | 9.18 | 270 | 16.43 | -- | -- | 33.3 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | |
| Moisture, percent | % | 3 / 3 | 100 | 24 | 50 | N/A | N/A | 36.67 | 36 | 169.3 | 13.01 | -- | -- | 50 | Maximum Detect |
| Solids, percent | % | 19 / 19 | 100 | 43.5 | 82.4 | N/A | N/A | 65.55 | 67.9 | 135.3 | 11.63 | 70.18 | 95% Student's-t UCL | 70.18 | UCL |
| TOC by lloyd kahn | mg/kg | 31 / 49 | 63 | 870 | 40000 | 500 | 500 | 11880 | 7050 | 136800000 | 11695 | 11234 | a Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 11234 | UCL |
| **Reach 6** | | | | | | | | | | | | | | | |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 3 / 4 | 75 | 0.102 | 1.2 | 0.061 | 0.061 | 0.482 | 0.144 | 0.387 | 0.622 | -- | -- | 1.2 | Maximum Detect |
| Aroclor-1016 | mg/kg | 0 / 4 | 0 | N/A | N/A | 0.05 | 0.094 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 / 4 | 0 | N/A | N/A | 0.06 | 0.19 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 / 4 | 0 | N/A | N/A | 0.05 | 0.094 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 1 / 4 | 25 | 0.39 | 0.39 | 0.05 | 0.05 | 0.39 | 0.39 | N/A | N/A | -- | -- | 0.39 | Maximum Detect |
| Aroclor-1248 | mg/kg | 0 / 4 | 0 | N/A | N/A | 0.05 | 0.094 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/kg | 3 / 4 | 75 | 0.048 | 0.53 | 0.05 | 0.05 | 0.221 | 0.084 | 0.0721 | 0.268 | -- | -- | 0.53 | Maximum Detect |
| Aroclor-1260 | mg/kg | 3 / 4 | 75 | 0.054 | 0.28 | 0.05 | 0.05 | 0.131 | 0.06 | 0.0166 | 0.129 | -- | -- | 0.28 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | |
| TOC by lloyd kahn | mg/kg | 1 / 4 | 25 | 15000 | 15000 | 500 | 500 | 15000 | 15000 | N/A | N/A | -- | -- | 15000 | Maximum Detect |
| **Reach 7** | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Barium | mg/kg | 3 / 3 | 100 | 14.3 | 26.9 | N/A | N/A | 20.05 | 18.95 | 40.6 | 6.372 | -- | -- | 26.9 | Maximum Detect |
| Cobalt | mg/kg | 3 / 3 | 100 | 2.45 | 3.9 | N/A | N/A | 3.25 | 3.4 | 0.543 | 0.737 | -- | -- | 3.9 | Maximum Detect |
| Chromium | mg/kg | 3 / 3 | 100 | 8.15 | 13.6 | N/A | N/A | 10.08 | 8.5 | 9.306 | 3.051 | -- | -- | 13.6 | Maximum Detect |

**Table E2-6**
**Summary Statistics by Reach - Sediment**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Lead | mg/kg | 3 / 3 | 100 | 7.05 | 9.2 | N/A | N/A | 8.217 | 8.4 | 1.181 | 1.087 | -- | -- | 9.2 | Maximum Detect |
| Mercury | mg/kg | 21 / 21 | 100 | 0.16 | 6.3 | N/A | N/A | 0.827 | 0.49 | 1.702 | 1.305 | 1.144 | 95% H-UCL | 1.144 | UCL |
| Vanadium | mg/kg | 3 / 3 | 100 | 5.05 | 7.6 | N/A | N/A | 5.983 | 5.3 | 1.976 | 1.406 | -- | -- | 7.6 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 29 / 36 | 81 | 0.044 | 4.2 | 0.053 | 0.095 | 1.455 | 1.08 | 1.775 | 1.332 | 1.69 | a Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 1.69 | UCL |
| Aroclor-1016 | mg/kg | 0 / 36 | 0 | N/A | N/A | 0.035 | 0.26 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 / 36 | 0 | N/A | N/A | 0.035 | 0.29 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 / 36 | 0 | N/A | N/A | 0.035 | 0.26 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 25 / 36 | 69 | 0.044 | 1.8 | 0.05 | 0.09 | 0.528 | 0.43 | 0.234 | 0.484 | 0.511 | 95% KM (t) UCL | 0.511 | UCL |
| Aroclor-1248 | mg/kg | 0 / 36 | 0 | N/A | N/A | 0.035 | 0.26 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/kg | 27 / 36 | 75 | 0.047 | 2 | 0.035 | 0.05 | 0.616 | 0.43 | 0.295 | 0.543 | 0.677 | 95% KM Adjusted Gamma UCL | 0.677 | UCL |
| Aroclor-1260 | mg/kg | 27 / 36 | 75 | 0.037 | 1.6 | 0.035 | 0.05 | 0.448 | 0.38 | 0.154 | 0.393 | 0.453 | 95% KM (t) UCL | 0.453 | UCL |
| Aroclor-1262 | mg/kg | 0 / 19 | 0 | N/A | N/A | 0.035 | 0.26 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 2 / 19 | 11 | 0.12 | 0.15 | 0.035 | 0.26 | 0.135 | 0.135 | 0.00045 | 0.0212 | -- | -- | 0.15 | Maximum Detect |
| BZ#105 | mg/kg | 2 / 2 | 100 | 0.017 | 0.044 | N/A | N/A | 0.0305 | 0.0305 | 0.0003645 | 0.0191 | -- | -- | 0.044 | Maximum Detect |
| BZ#114 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 2 / 2 | 100 | 0.027 | 0.094 | N/A | N/A | 0.0605 | 0.0605 | 0.00224 | 0.0474 | -- | -- | 0.094 | Maximum Detect |
| BZ#123 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 2 / 2 | 100 | 0.022 | 0.13 | N/A | N/A | 0.076 | 0.076 | 0.00583 | 0.0764 | -- | -- | 0.13 | Maximum Detect |
| BZ#156 | mg/kg | 2 / 2 | 100 | 0.0036 | 0.015 | N/A | N/A | 0.0093 | 0.0093 | 0.00006498 | 0.00806 | -- | -- | 0.015 | Maximum Detect |
| BZ#157 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.0039 | 0.011 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 / 2 | 0 | N/A | N/A | 0.0039 | 0.011 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 2 / 2 | 100 | 9.05 | 118 | N/A | N/A | 63.53 | 63.53 | 5935 | 77.04 | -- | -- | 118 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 2 / 2 | 100 | 3.43 | 26.3 | N/A | N/A | 14.87 | 14.87 | 261.5 | 16.17 | -- | -- | 26.3 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 2 / 2 | 100 | 0.66 | 6.43 | N/A | N/A | 3.545 | 3.545 | 16.65 | 4.08 | -- | -- | 6.43 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 2 / 2 | 100 | 0.14 | 1.61 | N/A | N/A | 0.875 | 0.875 | 1.08 | 1.039 | -- | -- | 1.61 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 2 / 2 | 100 | 2.08 | 16.5 | N/A | N/A | 9.29 | 9.29 | 104 | 10.2 | -- | -- | 16.5 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 1 / 2 | 50 | 3.36 | 3.36 | 0.329 | 0.329 | 3.36 | 3.36 | N/A | N/A | -- | -- | 3.36 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 1 / 2 | 50 | 5.64 | 5.64 | 0.753 | 0.753 | 5.64 | 5.64 | N/A | N/A | -- | -- | 5.64 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 2 / 2 | 100 | 0.36 | 5.25 | N/A | N/A | 2.805 | 2.805 | 11.96 | 3.458 | -- | -- | 5.25 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 0 / 2 | 0 | N/A | N/A | 0.114 | 0.51 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | pg/g | 1 / 2 | 50 | 1.08 | 1.08 | 0.124 | 0.124 | 1.08 | 1.08 | N/A | N/A | -- | -- | 1.08 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 2 / 2 | 100 | 0.874 | 5 | N/A | N/A | 2.937 | 2.937 | 8.512 | 2.918 | -- | -- | 5 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 1 / 2 | 50 | 4.06 | 4.06 | 0.551 | 0.551 | 4.06 | 4.06 | N/A | N/A | -- | -- | 4.06 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 2 / 2 | 100 | 2.04 | 12.8 | N/A | N/A | 7.42 | 7.42 | 57.89 | 7.608 | -- | -- | 12.8 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 0 / 2 | 0 | N/A | N/A | 0.104 | 0.247 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 2 / 2 | 100 | 5.92 | 30.8 | N/A | N/A | 18.36 | 18.36 | 309.5 | 17.59 | -- | -- | 30.8 | Maximum Detect |

**Table E2-6**
**Summary Statistics by Reach - Sediment**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Miscellaneous** | | | | | | | | | | | | | | | |
| Moisture, percent | % | 2 / 2 | 100 | 25 | 47 | N/A | N/A | 36 | 36 | 242 | 15.56 | -- | -- | 47 | Maximum Detect |
| Solids, percent | % | 19 / 19 | 100 | 48.1 | 90.4 | N/A | N/A | 68.46 | 69.4 | 134.8 | 11.61 | 73.08 | 95% Student's-t UCL | 73.08 | UCL |
| TOC by lloyd kahn | mg/kg | 29 / 37 | 78 | 1850 | 33000 | 500 | 1320 | 12423 | 10600 | 86573267 | 9304 | 16748 | 95% KM (Chebyshev) UCL | 16748 | UCL |
| **Reach 8** | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Mercury | mg/kg | 3 / 3 | 100 | 0.27 | 1.3 | N/A | N/A | 0.823 | 0.9 | 0.27 | 0.519 | -- | -- | 1.3 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 31 / 32 | 97 | 0.026 | 2.64 | 0.083 | 0.083 | 0.886 | 0.78 | 0.519 | 0.72 | 1.077 | 95% KM (t) UCL | 1.077 | UCL |
| Aroclor-1016 | mg/kg | 0 / 32 | 0 | N/A | N/A | 0.05 | 0.14 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 / 32 | 0 | N/A | N/A | 0.064 | 0.29 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 / 32 | 0 | N/A | N/A | 0.05 | 0.14 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 22 / 32 | 69 | 0.041 | 0.68 | 0.05 | 0.14 | 0.194 | 0.145 | 0.0299 | 0.173 | 0.202 | 95% GROS Adjusted Gamma UCL | 0.202 | UCL |
| Aroclor-1248 | mg/kg | 2 / 32 | 6 | 0.036 | 0.047 | 0.044 | 0.14 | 0.0415 | 0.0415 | 0.0000605 | 0.00778 | -- | -- | 0.047 | Maximum Detect |
| Aroclor-1254 | mg/kg | 28 / 32 | 88 | 0.027 | 1.2 | 0.05 | 0.05 | 0.45 | 0.41 | 0.0989 | 0.314 | 0.496 | 95% KM (t) UCL | 0.496 | UCL |
| Aroclor-1260 | mg/kg | 30 / 32 | 94 | 0.026 | 1 | 0.05 | 0.05 | 0.35 | 0.34 | 0.069 | 0.263 | 0.41 | 95% KM (t) UCL | 0.41 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | |
| TOC by lloyd kahn | mg/kg | 29 / 34 | 85 | 1100 | 60000 | 500 | 500 | 22672 | 23000 | 206700000 | 14376 | 23909 | 95% KM (t) UCL | 23909 | UCL |
| **Reach 9** | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Barium | mg/kg | 1 / 1 | 100 | 88.8 | 88.8 | N/A | N/A | 88.8 | 88.8 | N/A | N/A | -- | -- | 88.8 | Maximum Detect |
| Cobalt | mg/kg | 1 / 1 | 100 | 9.3 | 9.3 | N/A | N/A | 9.3 | 9.3 | N/A | N/A | -- | -- | 9.3 | Maximum Detect |
| Chromium | mg/kg | 1 / 1 | 100 | 23.1 | 23.1 | N/A | N/A | 23.1 | 23.1 | N/A | N/A | -- | -- | 23.1 | Maximum Detect |
| Lead | mg/kg | 1 / 1 | 100 | 23.9 | 23.9 | N/A | N/A | 23.9 | 23.9 | N/A | N/A | -- | -- | 23.9 | Maximum Detect |
| Mercury | mg/kg | 1 / 1 | 100 | 0.71 | 0.71 | N/A | N/A | 0.71 | 0.71 | N/A | N/A | -- | -- | 0.71 | Maximum Detect |
| Vanadium | mg/kg | 1 / 1 | 100 | 16.2 | 16.2 | N/A | N/A | 16.2 | 16.2 | N/A | N/A | -- | -- | 16.2 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 12 / 17 | 71 | 0.021 | 0.84 | 0.058 | 0.13 | 0.242 | 0.145 | 0.0622 | 0.249 | 0.357 | a Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 0.357 | UCL |
| Aroclor-1016 | mg/kg | 0 / 17 | 0 | N/A | N/A | 0.05 | 0.066 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 / 17 | 0 | N/A | N/A | 0.055 | 0.13 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 / 17 | 0 | N/A | N/A | 0.05 | 0.066 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 1 / 17 | 6 | 0.055 | 0.055 | 0.05 | 0.066 | 0.055 | 0.055 | N/A | N/A | -- | -- | 0.055 | Maximum Detect |
| Aroclor-1248 | mg/kg | 6 / 17 | 35 | 0.03 | 0.2 | 0.05 | 0.066 | 0.095 | 0.078 | 0.0045 | 0.0671 | 0.0812 | 95% KM (t) UCL | 0.0812 | UCL |
| Aroclor-1254 | mg/kg | 11 / 17 | 65 | 0.026 | 0.35 | 0.05 | 0.066 | 0.114 | 0.074 | 0.0108 | 0.104 | 0.125 | 95% KM (t) UCL | 0.125 | UCL |
| Aroclor-1260 | mg/kg | 11 / 17 | 65 | 0.021 | 0.29 | 0.05 | 0.066 | 0.093 | 0.051 | 0.00793 | 0.0891 | 0.104 | 95% KM (t) UCL | 0.104 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | |
| TOC by lloyd kahn | mg/kg | 11 / 17 | 65 | 870 | 35000 | 500 | 500 | 13515 | 14000 | 122300000 | 11057 | 13592 | 95% KM (t) UCL | 13592 | UCL |
| **Reach 10** | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Barium | mg/kg | 10 / 10 | 100 | 39.2 | 134 | N/A | N/A | 89.46 | 100.3 | 1227 | 35.03 | 109.8 | 95% Student's-t UCL | 109.8 | UCL |
| Cobalt | mg/kg | 10 / 10 | 100 | 4 | 13.3 | N/A | N/A | 8.025 | 7.725 | 8.603 | 2.933 | 9.725 | 95% Student's-t UCL | 9.725 | UCL |
| Chromium | mg/kg | 10 / 10 | 100 | 7.5 | 41.2 | N/A | N/A | 21.71 | 20.25 | 119.3 | 10.92 | 28.04 | 95% Student's-t UCL | 28.04 | UCL |
| Lead | mg/kg | 10 / 10 | 100 | 6.3 | 36.1 | N/A | N/A | 20.1 | 19.45 | 123.8 | 11.13 | 26.54 | 95% Student's-t UCL | 26.54 | UCL |

**Table E2-6**
**Summary Statistics by Reach - Sediment**
**Reaches C1 through C10**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Mercury | mg/kg | 15 / 15 | 100 | 0.03 | 1.7 | N/A | N/A | 0.629 | 0.57 | 0.292 | 0.54 | 0.874 | 95% Student's-t UCL | 0.874 | UCL |
| Vanadium | mg/kg | 10 / 10 | 100 | 7.5 | 30.9 | N/A | N/A | 17.51 | 17.55 | 63.91 | 7.994 | 22.14 | 95% Student's-t UCL | 22.14 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 31 / 37 | 84 | 0.082 | 2.72 | 0.061 | 0.088 | 0.627 | 0.42 | 0.357 | 0.598 | 0.755 | 95% KM Adjusted Gamma UCL | 0.755 | UCL |
| Aroclor-1016 | mg/kg | 0 / 37 | 0 | N/A | N/A | 0.05 | 0.12 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 / 37 | 0 | N/A | N/A | 0.061 | 0.24 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 / 37 | 0 | N/A | N/A | 0.05 | 0.12 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 7 / 37 | 19 | 0.039 | 0.95 | 0.05 | 0.12 | 0.2 | 0.085 | 0.11 | 0.332 | 0.187 | 95% KM (Chebyshev) UCL | 0.187 | UCL |
| Aroclor-1248 | mg/kg | 9 / 37 | 24 | 0.089 | 0.42 | 0.05 | 0.12 | 0.242 | 0.25 | 0.0132 | 0.115 | 0.126 | 95% KM (t) UCL | 0.126 | UCL |
| Aroclor-1254 | mg/kg | 31 / 37 | 84 | 0.048 | 1.1 | 0.05 | 0.05 | 0.279 | 0.21 | 0.0551 | 0.235 | 0.325 | 95% KM Adjusted Gamma UCL | 0.325 | UCL |
| Aroclor-1260 | mg/kg | 31 / 37 | 84 | 0.034 | 0.67 | 0.05 | 0.05 | 0.233 | 0.17 | 0.0341 | 0.185 | 0.267 | 95% KM Adjusted Gamma UCL | 0.267 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | |
| TOC by lloyd kahn | mg/kg | 33 / 37 | 89 | 960 | 54000 | 500 | 500 | 18872 | 17000 | 139700000 | 11820 | 20376 | 95% KM (t) UCL | 20376 | UCL |

**Notes:**
"--" = not applicable
% = percent
EPC = exposure point concentration
mg/kg = milligrams per kilograms
N/A = not available
pg/g = picograms per gram
PCB = polychlorinated biphenyl
TOC = total organic carbon
UCL = upper confidence limit

**Table E2-7**
**Summary Statistics by Assessment Area - Sediment**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Snow Creek** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Barium | mg/kg | 2 | / | 2 | 100 | 160 | 220 | N/A | N/A | 190 | 190 | 1800 | 42.43 | -- | -- | 220 | Maximum Detect |
| Cobalt | mg/kg | 2 | / | 2 | 100 | 16 | 21 | N/A | N/A | 18.5 | 18.5 | 12.5 | 3.536 | -- | -- | 21 | Maximum Detect |
| Chromium | mg/kg | 2 | / | 2 | 100 | 42 | 46 | N/A | N/A | 44 | 44 | 8 | 2.828 | -- | -- | 46 | Maximum Detect |
| Lead | mg/kg | 2 | / | 2 | 100 | 57 | 110 | N/A | N/A | 83.5 | 83.5 | 1405 | 37.48 | -- | -- | 110 | Maximum Detect |
| Mercury | mg/kg | 2 | / | 2 | 100 | 0.51 | 0.58 | N/A | N/A | 0.545 | 0.545 | 0.00245 | 0.0495 | -- | -- | 0.58 | Maximum Detect |
| Vanadium | mg/kg | 2 | / | 2 | 100 | 52 | 53 | N/A | N/A | 52.5 | 52.5 | 0.5 | 0.707 | -- | -- | 53 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 15 | / | 16 | 94 | 0.43 | 41 | 0.17 | 0.17 | 5.596 | 2.24 | 101.4 | 10.07 | 15.98 | 95% KM (Chebyshev) UCL | 15.98 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 16 | 0 | N/A | N/A | 0.069 | 1.3 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 16 | 0 | N/A | N/A | 0.14 | 2.7 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 16 | 0 | N/A | N/A | 0.069 | 1.3 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 4 | / | 16 | 25 | 0.29 | 12 | 0.069 | 0.34 | 3.453 | 0.76 | 32.6 | 5.709 | -- | -- | 12 | Maximum Detect |
| Aroclor-1248 | mg/kg | 11 | / | 16 | 69 | 0.12 | 1.9 | 0.069 | 1.3 | 0.673 | 0.43 | 0.283 | 0.532 | 0.74 | 95% KM (t) UCL | 0.741 | UCL |
| Aroclor-1254 | mg/kg | 15 | / | 16 | 94 | 0.17 | 16 | 0.085 | 0.085 | 2.495 | 1.2 | 15.48 | 3.934 | 6.06 | a Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1) | 6.063 | UCL |
| Aroclor-1260 | mg/kg | 15 | / | 16 | 94 | 0.14 | 13 | 0.085 | 0.085 | 1.687 | 0.76 | 10.22 | 3.197 | 4.99 | 95% KM (Chebyshev) UCL | 4.989 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| TOC by lloyd kahn | mg/kg | 13 | / | 16 | 81 | 1200 | 36000 | 500 | 500 | 7808 | 5100 | 81839103 | 9046 | 13738.00 | 95% KM Adjusted Gamma UCL | 13738 | UCL |
| **Upper Assessment Area** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Barium | mg/kg | 8 | / | 8 | 100 | 15.9 | 172 | N/A | N/A | 69.74 | 48.75 | 2499 | 49.99 | 103.20 | 95% Student's-t UCL | 103.2 | UCL |
| Cobalt | mg/kg | 8 | / | 8 | 100 | 2.7 | 10.5 | N/A | N/A | 5.95 | 5.65 | 6.271 | 2.504 | 7.63 | 95% Student's-t UCL | 7.627 | UCL |
| Chromium | mg/kg | 8 | / | 8 | 100 | 6 | 20.8 | N/A | N/A | 13.06 | 13.1 | 30.74 | 5.545 | 16.78 | 95% Student's-t UCL | 16.78 | UCL |
| Lead | mg/kg | 7 | / | 8 | 87.5 | 9.1 | 50.3 | 3.8 | 3.8 | 17.5 | 12.9 | 214.6 | 14.65 | 30.28 | KM H-UCL | 30.28 | UCL |
| Mercury | mg/kg | 23 | / | 24 | 96 | 0.039 | 46.6 | 0.011 | 0.011 | 2.787 | 0.75 | 91.75 | 9.579 | 11.03 | 95% KM (Chebyshev) UCL | 11.03 | UCL |
| Vanadium | mg/kg | 8 | / | 8 | 100 | 4.7 | 17.2 | N/A | N/A | 9.925 | 8.4 | 18.42 | 4.291 | 12.80 | 95% Student's-t UCL | 12.8 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 57 | / | 78 | 73 | 0.056 | 95 | 0.038 | 0.12 | 4.585 | 0.82 | 192.2 | 13.86 | 5.61 | KM H-UCL | 5.613 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 78 | 0 | N/A | N/A | 0.036 | 8.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 78 | 0 | N/A | N/A | 0.036 | 8.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 14 | / | 78 | 18 | 0.04 | 75 | 0.036 | 0.68 | 12.04 | 2.1 | 435.4 | 20.87 | 5.92 | 95% KM Approximate Gamma UCL | 5.922 | UCL |
| Aroclor-1242 | mg/kg | 28 | / | 78 | 36 | 0.024 | 0.83 | 0.038 | 8.5 | 0.276 | 0.215 | 0.0535 | 0.231 | 0.14 | 95% GROS Approximate Gamma UCL | 0.143 | UCL |
| Aroclor-1248 | mg/kg | 12 | / | 78 | 15 | 0.04 | 3.2 | 0.036 | 8.5 | 0.414 | 0.0785 | 0.808 | 0.899 | 0.07 | KM H-UCL | 0.0697 | UCL |
| Aroclor-1254 | mg/kg | 47 | / | 78 | 60 | 0.026 | 6.2 | 0.038 | 8.5 | 0.598 | 0.25 | 1.123 | 1.06 | 0.56 | KM H-UCL | 0.558 | UCL |
| Aroclor-1260 | mg/kg | 52 | / | 78 | 67 | 0.03 | 20 | 0.038 | 5.5 | 0.99 | 0.22 | 9.056 | 3.009 | 0.66 | KM H-UCL | 0.662 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 48 | 0 | N/A | N/A | 0.036 | 5.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 2 | / | 48 | 4 | 0.085 | 0.48 | 0.036 | 5.5 | 0.283 | 0.283 | 0.078 | 0.279 | -- | -- | 0.48 | Maximum Detect |
| BZ#105 | mg/kg | 3 | / | 7 | 43 | 0.0086 | 0.036 | 0.0016 | 0.0058 | 0.0239 | 0.027 | 0.00019505 | 0.014 | -- | -- | 0.036 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 7 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 5 | / | 7 | 71 | 0.0022 | 0.072 | 0.0016 | 0.0021 | 0.0325 | 0.025 | 0.00080971 | 0.0285 | -- | -- | 0.072 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 7 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 2 | / | 7 | 29 | 0.0064 | 0.012 | 0.0016 | 0.0035 | 0.0092 | 0.0092 | 0.00001568 | 0.00396 | -- | -- | 0.012 | Maximum Detect |
| BZ#153 | mg/kg | 5 | / | 7 | 71 | 0.0044 | 0.11 | 0.0032 | 0.0042 | 0.066 | 0.0665 | 0.00156 | 0.0395 | -- | -- | 0.11 | Maximum Detect |
| BZ#156 | mg/kg | 3 | / | 7 | 43 | 0.0035 | 0.011 | 0.0016 | 0.0058 | 0.00777 | 0.0088 | 1.4863E-05 | 0.00386 | -- | -- | 0.011 | Maximum Detect |
| BZ#157 | mg/kg | 1 | / | 7 | 14 | 0.0021 | 0.0021 | 0.0016 | 0.0058 | 0.0021 | 0.0021 | N/A | N/A | -- | -- | 0.0021 | Maximum Detect |
| BZ#167 | mg/kg | 0 | / | 7 | 0 | N/A | N/A | 0.0032 | 0.012 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 7 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 7 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 7 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 7 | 0 | N/A | N/A | 0.0032 | 0.012 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Table E2-7**
**Summary Statistics by Assessment Area - Sediment**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 5 | / | 5 | 100 | 2.47 | 53.6 | N/A | N/A | 22.79 | 20.1 | 360 | 18.97 | -- | -- | 53.6 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 3 | / | 5 | 60 | 11.85 | 102 | 0.55 | 3.5 | 42.48 | 13.6 | 2657 | 51.55 | -- | -- | 102 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 4 | / | 5 | 80 | 0.44 | 43.8 | 0.17 | 0.17 | 12.59 | 3.065 | 434.4 | 20.84 | -- | -- | 43.8 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 2 | / | 5 | 40 | 0.388 | 0.551 | 0.14 | 0.92 | 0.47 | 0.47 | 0.0133 | 0.115 | -- | -- | 0.551 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 4 | / | 5 | 80 | 0.65 | 114 | 0.11 | 0.11 | 33.62 | 9.905 | 2891 | 53.77 | -- | -- | 114 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 3 | / | 5 | 60 | 0.13 | 3.08 | 1.01 | 1.05 | 1.293 | 0.67 | 2.467 | 1.571 | -- | -- | 3.08 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 4 | / | 5 | 80 | 0.59 | 28.2 | 0.11 | 0.11 | 8.636 | 2.878 | 171.3 | 13.09 | -- | -- | 28.2 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 4 | / | 5 | 80 | 0.63 | 2.64 | 0.12 | 0.12 | 1.378 | 1.12 | 0.768 | 0.877 | -- | -- | 2.64 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 1 | / | 5 | 20 | 3.91 | 3.91 | 0.15 | 0.408 | 3.91 | 3.91 | N/A | N/A | -- | -- | 3.91 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 2 | / | 5 | 40 | 0.392 | 0.482 | 0.13 | 0.54 | 0.437 | 0.437 | 0.00405 | 0.0636 | -- | -- | 0.482 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 4 | / | 5 | 80 | 0.32 | 19.7 | 0.17 | 0.17 | 6.018 | 2.025 | 83.86 | 9.157 | -- | -- | 19.7 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 3 | / | 5 | 60 | 1.89 | 9.49 | 0.13 | 0.23 | 4.438 | 1.935 | 19.14 | 4.375 | -- | -- | 9.49 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 4 | / | 5 | 80 | 0.28 | 19.6 | 0.17 | 0.17 | 7.749 | 5.558 | 68.65 | 8.286 | -- | -- | 19.6 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 0 | / | 5 | 0 | N/A | N/A | 0.097 | 1.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 4 | / | 5 | 80 | 0.63 | 64.2 | 0.15 | 0.15 | 21.81 | 11.21 | 824.7 | 28.72 | -- | -- | 64.2 | Maximum Detect |
| octa cdd | pg/g | 5 | / | 5 | 100 | 94.4 | 995 | N/A | N/A | 450.9 | 371 | 112883 | 336 | -- | -- | 995 | Maximum Detect |
| octa cdf | pg/g | 5 | / | 5 | 100 | 1.2 | 299 | N/A | N/A | 69.27 | 16.15 | 16592 | 128.8 | -- | -- | 299 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 2 | / | 2 | 100 | 22 | 27 | N/A | N/A | 24.5 | 24.5 | 12.5 | 3.536 | -- | -- | 27 | Maximum Detect |
| Solids, percent | % | 48 | / | 48 | 100 | 52.2 | 89 | N/A | N/A | 72.76 | 74.05 | 98.08 | 9.903 | 75.16 | 95% Student's-t UCL | 75.16 | UCL |
| TOC by lloyd kahn | mg/kg | 62 | / | 80 | 78 | 680 | 52200 | 500 | 1260 | 10429 | 6630 | 102400000 | 10120 | 10388.00 | 95% KM Approximate Gamma UCL | 10388 | UCL |
| **Middle Assessment Area** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Barium | mg/kg | 4 | / | 4 | 100 | 24.1 | 251 | N/A | N/A | 85.5 | 33.45 | 12193 | 110.4 | -- | -- | 251 | Maximum Detect |
| Cobalt | mg/kg | 4 | / | 4 | 100 | 2.3 | 34.3 | N/A | N/A | 10.66 | 3.025 | 248.6 | 15.77 | -- | -- | 34.3 | Maximum Detect |
| Chromium | mg/kg | 4 | / | 4 | 100 | 6.3 | 54.7 | N/A | N/A | 19.05 | 7.6 | 565.2 | 23.77 | -- | -- | 54.7 | Maximum Detect |
| Lead | mg/kg | 4 | / | 4 | 100 | 4.3 | 71 | N/A | N/A | 22.31 | 6.975 | 1056 | 32.49 | -- | -- | 71 | Maximum Detect |
| Mercury | mg/kg | 25 | / | 25 | 100 | 0.3 | 1.4 | N/A | N/A | 0.711 | 0.65 | 0.0924 | 0.304 | 0.82 | 95% Student's-t UCL | 0.815 | UCL |
| Vanadium | mg/kg | 4 | / | 4 | 100 | 3.15 | 43.1 | N/A | N/A | 13.66 | 4.2 | 385.8 | 19.64 | -- | -- | 43.1 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 45 | / | 52 | 87 | 0.06 | 5.15 | 0.041 | 0.096 | 0.893 | 0.36 | 1.275 | 1.129 | 1.44 | 95% KM (Chebyshev) UCL | 1.437 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 52 | 0 | N/A | N/A | 0.039 | 0.31 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 52 | 0 | N/A | N/A | 0.039 | 0.31 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 52 | 0 | N/A | N/A | 0.039 | 0.31 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 29 | / | 52 | 56 | 0.025 | 2.4 | 0.041 | 0.066 | 0.354 | 0.16 | 0.235 | 0.485 | 0.34 | 95% KM Approximate Gamma UCL | 0.343 | UCL |
| Aroclor-1248 | mg/kg | 3 | / | 52 | 6 | 0.017 | 0.39 | 0.039 | 0.31 | 0.226 | 0.27 | 0.0363 | 0.19 | -- | -- | 0.39 | Maximum Detect |
| Aroclor-1254 | mg/kg | 45 | / | 52 | 87 | 0.032 | 1.8 | 0.041 | 0.05 | 0.359 | 0.12 | 0.178 | 0.422 | 0.56 | 95% KM (Chebyshev) UCL | 0.563 | UCL |
| Aroclor-1260 | mg/kg | 45 | / | 52 | 87 | 0.027 | 1.5 | 0.041 | 0.05 | 0.274 | 0.12 | 0.112 | 0.335 | 0.35 | KM H-UCL | 0.348 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 19 | 0 | N/A | N/A | 0.039 | 0.31 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 6 | / | 19 | 32 | 0.05 | 0.25 | 0.039 | 0.31 | 0.125 | 0.099 | 0.00659 | 0.0812 | 0.10 | 95% KM (t) UCL | 0.0991 | UCL |
| BZ#105 | mg/kg | 3 | / | 3 | 100 | 0.014 | 0.047 | N/A | N/A | 0.0357 | 0.046 | 0.00035233 | 0.0188 | -- | -- | 0.047 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 3 | / | 3 | 100 | 0.023 | 0.098 | N/A | N/A | 0.0707 | 0.091 | 0.00172 | 0.0414 | -- | -- | 0.098 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 3 | / | 3 | 100 | 0.023 | 0.14 | N/A | N/A | 0.091 | 0.11 | 0.00369 | 0.0608 | -- | -- | 0.14 | Maximum Detect |
| BZ#156 | mg/kg | 3 | / | 3 | 100 | 0.0054 | 0.017 | N/A | N/A | 0.0111 | 0.011 | 3.3653E-05 | 0.0058 | -- | -- | 0.017 | Maximum Detect |
| BZ#157 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0034 | 0.013 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.0034 | 0.013 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Table E2-7**
**Summary Statistics by Assessment Area - Sediment**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 3 | / | 3 | 100 | 2.76 | 94.1 | N/A | N/A | 36.59 | 12.9 | 2507 | 50.07 | -- | -- | 94.1 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 3 | / | 3 | 100 | 1.53 | 36.3 | N/A | N/A | 14.15 | 4.62 | 370.4 | 19.24 | -- | -- | 36.3 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 3 | / | 3 | 100 | 0.686 | 5.27 | N/A | N/A | 2.311 | 0.978 | 6.587 | 2.566 | -- | -- | 5.27 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 3 | / | 3 | 100 | 0.127 | 1.63 | N/A | N/A | 0.666 | 0.242 | 0.7 | 0.837 | -- | -- | 1.63 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 3 | / | 3 | 100 | 1.38 | 18.4 | N/A | N/A | 7.787 | 3.58 | 85.69 | 9.257 | -- | -- | 18.4 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 1 | / | 3 | 33 | 3.7 | 3.7 | 0.247 | 0.573 | 3.7 | 3.7 | N/A | N/A | -- | -- | 3.7 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 2 | / | 3 | 67 | 1.23 | 6.9 | 0.545 | 0.545 | 4.065 | 4.065 | 16.07 | 4.009 | -- | -- | 6.9 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 3 | / | 3 | 100 | 0.33 | 3.97 | N/A | N/A | 1.607 | 0.521 | 4.197 | 2.049 | -- | -- | 3.97 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 0 | / | 3 | 0 | N/A | N/A | 0.125 | 0.497 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | pg/g | 2 | / | 3 | 67 | 0.209 | 1.21 | 0.161 | 0.161 | 0.71 | 0.71 | 0.501 | 0.708 | -- | -- | 1.21 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 3 | / | 3 | 100 | 0.488 | 6.52 | N/A | N/A | 2.809 | 1.42 | 10.54 | 3.247 | -- | -- | 6.52 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 2 | / | 3 | 67 | 0.785 | 5.7 | 0.332 | 0.332 | 3.243 | 3.243 | 12.08 | 3.475 | -- | -- | 5.7 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 2 | / | 3 | 67 | 3.09 | 13 | 0.877 | 0.877 | 8.045 | 8.045 | 49.1 | 7.007 | -- | -- | 13 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 2 | / | 3 | 67 | 0.147 | 0.5 | 0.103 | 0.103 | 0.324 | 0.324 | 0.0623 | 0.25 | -- | -- | 0.5 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 3 | / | 3 | 100 | 1.91 | 33.3 | N/A | N/A | 14.8 | 9.18 | 270 | 16.43 | -- | -- | 33.3 | Maximum Detect |
| octa cdd | pg/g | 3 | / | 3 | 100 | 45.3 | 2030 | N/A | N/A | 784.8 | 279 | 1176608 | 1085 | -- | -- | 2030 | Maximum Detect |
| octa cdf | pg/g | 3 | / | 3 | 100 | 2.89 | 61.4 | N/A | N/A | 24 | 7.71 | 1055 | 32.48 | -- | -- | 61.4 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 3 | / | 3 | 100 | 24 | 50 | N/A | N/A | 36.67 | 36 | 169.3 | 13.01 | -- | -- | 50 | Maximum Detect |
| Solids, percent | % | 19 | / | 19 | 100 | 43.5 | 82.4 | N/A | N/A | 65.55 | 67.9 | 135.3 | 11.63 | 70.18 | 95% Student's-t UCL | 70.18 | UCL |
| TOC by lloyd kahn | mg/kg | 32 | / | 53 | 60 | 870 | 40000 | 500 | 500 | 11977 | 7175 | 132700000 | 11518 | 10606.00 | 95% KM Approximate Gamma UCL | 10606 | UCL |
| **Lower Assessment Area** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Barium | mg/kg | 14 | / | 14 | 100 | 14.3 | 134 | N/A | N/A | 74.54 | 82.15 | 1728 | 41.57 | 94.21 | 95% Student's-t UCL | 94.21 | UCL |
| Cobalt | mg/kg | 14 | / | 14 | 100 | 2.45 | 13.3 | N/A | N/A | 7.093 | 7.275 | 10.49 | 3.239 | 8.63 | 95% Student's-t UCL | 8.626 | UCL |
| Chromium | mg/kg | 14 | / | 14 | 100 | 7.5 | 41.2 | N/A | N/A | 19.32 | 16.8 | 109.2 | 10.45 | 24.26 | 95% Student's-t UCL | 24.26 | UCL |
| Lead | mg/kg | 14 | / | 14 | 100 | 6.3 | 36.1 | N/A | N/A | 17.82 | 13.43 | 114 | 10.68 | 22.87 | 95% Student's-t UCL | 22.87 | UCL |
| Mercury | mg/kg | 40 | / | 40 | 100 | 0.03 | 6.3 | N/A | N/A | 0.75 | 0.545 | 1.001 | 1 | 0.99 | 95% Adjusted Gamma UCL | 0.99 | UCL |
| Vanadium | mg/kg | 14 | / | 14 | 100 | 5.05 | 30.9 | N/A | N/A | 14.94 | 15.88 | 68.24 | 8.261 | 18.85 | 95% Student's-t UCL | 18.85 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 103 | / | 122 | 84 | 0.021 | 4.2 | 0.053 | 0.13 | 0.893 | 0.529 | 0.913 | 0.955 | 0.92 | 95% KM Approximate Gamma UCL | 0.922 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 122 | 0 | N/A | N/A | 0.035 | 0.26 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 122 | 0 | N/A | N/A | 0.035 | 0.29 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 122 | 0 | N/A | N/A | 0.035 | 0.26 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 55 | / | 122 | 45 | 0.039 | 1.8 | 0.05 | 0.14 | 0.344 | 0.16 | 0.157 | 0.396 | 0.18 | KM H-UCL | 0.179 | UCL |
| Aroclor-1248 | mg/kg | 17 | / | 122 | 14 | 0.03 | 0.42 | 0.035 | 0.26 | 0.167 | 0.13 | 0.0151 | 0.123 | 0.07 | 95% KM (t) UCL | 0.065 | UCL |
| Aroclor-1254 | mg/kg | 97 | / | 122 | 80 | 0.026 | 2 | 0.035 | 0.066 | 0.403 | 0.25 | 0.154 | 0.392 | 0.39 | 95% GROS Approximate Gamma UCL | 0.392 | UCL |
| Aroclor-1260 | mg/kg | 99 | / | 122 | 81 | 0.021 | 1.6 | 0.035 | 0.066 | 0.311 | 0.21 | 0.0855 | 0.292 | 0.31 | 95% GROS Approximate Gamma UCL | 0.306 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 19 | 0 | N/A | N/A | 0.035 | 0.26 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 2 | / | 19 | 11 | 0.12 | 0.15 | 0.035 | 0.26 | 0.135 | 0.135 | 0.00045 | 0.0212 | -- | -- | 0.15 | Maximum Detect |
| BZ#105 | mg/kg | 2 | / | 2 | 100 | 0.017 | 0.044 | N/A | N/A | 0.0305 | 0.0305 | 0.0003645 | 0.0191 | -- | -- | 0.044 | Maximum Detect |
| BZ#114 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 2 | / | 2 | 100 | 0.027 | 0.094 | N/A | N/A | 0.0605 | 0.0605 | 0.00224 | 0.0474 | -- | -- | 0.094 | Maximum Detect |
| BZ#123 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 2 | / | 2 | 100 | 0.022 | 0.13 | N/A | N/A | 0.076 | 0.076 | 0.00583 | 0.0764 | -- | -- | 0.13 | Maximum Detect |
| BZ#156 | mg/kg | 2 | / | 2 | 100 | 0.0036 | 0.015 | N/A | N/A | 0.0093 | 0.0093 | 0.00006498 | 0.00806 | -- | -- | 0.015 | Maximum Detect |
| BZ#157 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0039 | 0.011 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 2 | 0 | N/A | N/A | 0.0039 | 0.011 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Table E2-7**
**Summary Statistics by Assessment Area - Sediment**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 2 | / | 2 | 100 | 9.05 | 118 | N/A | N/A | 63.53 | 63.53 | 5935 | 77.04 | -- | -- | 118 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 2 | / | 2 | 100 | 3.43 | 26.3 | N/A | N/A | 14.87 | 14.87 | 261.5 | 16.17 | -- | -- | 26.3 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 2 | / | 2 | 100 | 0.66 | 6.43 | N/A | N/A | 3.545 | 3.545 | 16.65 | 4.08 | -- | -- | 6.43 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 2 | / | 2 | 100 | 0.14 | 1.61 | N/A | N/A | 0.875 | 0.875 | 1.08 | 1.039 | -- | -- | 1.61 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 2 | / | 2 | 100 | 2.08 | 16.5 | N/A | N/A | 9.29 | 9.29 | 104 | 10.2 | -- | -- | 16.5 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | pg/g | 1 | / | 2 | 50 | 3.36 | 3.36 | 0.329 | 0.329 | 3.36 | 3.36 | N/A | N/A | -- | -- | 3.36 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 1 | / | 2 | 50 | 5.64 | 5.64 | 0.753 | 0.753 | 5.64 | 5.64 | N/A | N/A | -- | -- | 5.64 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | pg/g | 2 | / | 2 | 100 | 0.36 | 5.25 | N/A | N/A | 2.805 | 2.805 | 11.96 | 3.458 | -- | -- | 5.25 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 0 | / | 2 | 0 | N/A | N/A | 0.114 | 0.51 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | pg/g | 1 | / | 2 | 50 | 1.08 | 1.08 | 0.124 | 0.124 | 1.08 | 1.08 | N/A | N/A | -- | -- | 1.08 | Maximum Detect |
| 1,2,3,7,8-pecdf | pg/g | 2 | / | 2 | 100 | 0.874 | 5 | N/A | N/A | 2.937 | 2.937 | 8.512 | 2.918 | -- | -- | 5 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | pg/g | 1 | / | 2 | 50 | 4.06 | 4.06 | 0.551 | 0.551 | 4.06 | 4.06 | N/A | N/A | -- | -- | 4.06 | Maximum Detect |
| 2,3,4,7,8-pecdf | pg/g | 2 | / | 2 | 100 | 2.04 | 12.8 | N/A | N/A | 7.42 | 7.42 | 57.89 | 7.608 | -- | -- | 12.8 | Maximum Detect |
| 2,3,7,8-tcdd | pg/g | 0 | / | 2 | 0 | N/A | N/A | 0.104 | 0.247 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 2 | / | 2 | 100 | 5.92 | 30.8 | N/A | N/A | 18.36 | 18.36 | 309.5 | 17.59 | -- | -- | 30.8 | Maximum Detect |
| octa cdd | pg/g | 2 | / | 2 | 100 | 170 | 2100 | N/A | N/A | 1135 | 1135 | 1862450 | 1365 | -- | -- | 2100 | Maximum Detect |
| octa cdf | pg/g | 2 | / | 2 | 100 | 5.56 | 48.5 | N/A | N/A | 27.03 | 27.03 | 921.9 | 30.36 | -- | -- | 48.5 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 2 | / | 2 | 100 | 25 | 47 | N/A | N/A | 36 | 36 | 242 | 15.56 | -- | -- | 47 | Maximum Detect |
| Solids, percent | % | 19 | / | 19 | 100 | 48.1 | 90.4 | N/A | N/A | 68.46 | 69.4 | 134.8 | 11.61 | 73.08 | 95% Student's-t UCL | 73.08 | UCL |
| TOC by lloyd kahn | mg/kg | 102 | / | 125 | 82 | 870 | 60000 | 500 | 1320 | 17541 | 16100 | 155100000 | 12454 | 19498.00 | 95% KM (Chebyshev) UCL | 19498 | UCL |

**Notes:**
"--" = not applicable
% = percent
EPC = exposure point concentration
mg/kg = milligrams per kilograms
N/A = not available
pg/g = picograms per gram
PCB = polychlorinated biphenyl
TOC = total organic carbon
UCL = upper confidence limit

**Table E2-8**
**Summary Statistics by Assessment Area - Surface Water**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Snow Creek** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Barium | mg/L | 4 | / | 4 | 100 | 0.0241 | 0.201 | N/A | N/A | 0.0859 | 0.0593 | 0.00692 | 0.0832 | -- | -- | 0.201 | Maximum Detect |
| Cobalt | mg/L | 2 | / | 4 | 50 | 0.005 | 0.0122 | 0.0019 | 0.0019 | 0.0086 | 0.0086 | 0.00002592 | 0.00509 | -- | -- | 0.0122 | Maximum Detect |
| Chromium | mg/L | 4 | / | 4 | 100 | 0.002 | 0.0329 | N/A | N/A | 0.012 | 0.0065 | 0.00021143 | 0.0145 | -- | -- | 0.0329 | Maximum Detect |
| Lead | mg/L | 4 | / | 4 | 100 | 0.0042 | 0.0964 | N/A | N/A | 0.0335 | 0.0167 | 0.00189 | 0.0434 | -- | -- | 0.0964 | Maximum Detect |
| Mercury | mg/L | 2 | / | 4 | 50 | 0.00015 | 0.00043 | 0.000018 | 0.000018 | 0.00029 | 0.00029 | 3.92E-08 | 0.00019799 | -- | -- | 0.00043 | Maximum Detect |
| Vanadium | mg/L | 4 | / | 4 | 100 | 0.0041 | 0.0339 | N/A | N/A | 0.0148 | 0.0106 | 0.00019395 | 0.0139 | -- | -- | 0.0339 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total Homolog PCBs | mg/L | 3 | / | 3 | 100 | 1.7500E-4 | 4.9800E-4 | N/A | N/A | 3.5700E-4 | 3.9800E-4 | 2.7343E-8 | 1.6536E-4 | -- | -- | 4.9800E-4 | Maximum Detect |
| Aroclor-1016 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.0005 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.0005 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.0005 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.0005 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1248 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.0005 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.0005 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1260 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.0005 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1262 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.0005 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.0005 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#105 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.00002 | 0.000022 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#114 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.00002 | 0.00004 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/L | 1 | / | 3 | 33 | 0.000028 | 0.000028 | 0.00002 | 0.000022 | 0.000028 | 0.000028 | N/A | N/A | -- | -- | 0.000028 | Maximum Detect |
| BZ#123 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.00002 | 0.00004 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.00002 | 0.000022 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.00004 | 0.000043 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#156 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.00002 | 0.000022 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#157 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.00002 | 0.00004 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.00004 | 0.000043 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.00002 | 0.000022 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.00002 | 0.000022 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.00002 | 0.00004 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.00004 | 0.00006 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | ng/L | 3 | / | 3 | 100 | 0.0157 | 0.173 | N/A | N/A | 0.0869 | 0.072 | 0.00635 | 0.0797 | -- | -- | 0.173 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | ng/L | 1 | / | 3 | 33 | 0.0279 | 0.0279 | 0.0046 | 0.067 | 0.0279 | 0.0279 | N/A | N/A | -- | -- | 0.0279 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | ng/L | 2 | / | 3 | 67 | 0.00232 | 0.0062 | 0.00098 | 0.00098 | 0.00426 | 0.00426 | 7.5272E-06 | 0.00274 | -- | -- | 0.0062 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | ng/L | 2 | / | 3 | 67 | 0.00186 | 0.004 | 0.00069 | 0.00069 | 0.00293 | 0.00293 | 2.2898E-06 | 0.00151 | -- | -- | 0.004 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | ng/L | 2 | / | 3 | 67 | 0.00722 | 0.0181 | 0.00099 | 0.00099 | 0.0127 | 0.0127 | 0.000059242 | 0.0077 | -- | -- | 0.0181 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | ng/L | 3 | / | 3 | 100 | 0.00076 | 0.00815 | N/A | N/A | 0.00438 | 0.00422 | 0.000013671 | 0.0037 | -- | -- | 0.00815 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | ng/L | 3 | / | 3 | 100 | 0.00163 | 0.00842 | N/A | N/A | 0.00422 | 0.0026 | 0.000013486 | 0.00367 | -- | -- | 0.00842 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | ng/L | 3 | / | 3 | 100 | 0.00095 | 0.0112 | N/A | N/A | 0.00562 | 0.00471 | 0.000026887 | 0.00519 | -- | -- | 0.0112 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | ng/L | 0 | / | 3 | 0 | N/A | N/A | 0.00062 | 0.00073 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | ng/L | 2 | / | 3 | 67 | 0.00221 | 0.00258 | 0.00058 | 0.00058 | 0.0024 | 0.0024 | 6.845E-08 | 0.00026163 | -- | -- | 0.00258 | Maximum Detect |
| 1,2,3,7,8-pecdf | ng/L | 2 | / | 3 | 67 | 0.00159 | 0.0048 | 0.0012 | 0.0012 | 0.0032 | 0.0032 | 5.1521E-06 | 0.00227 | -- | -- | 0.0048 | Maximum Detect |

**Table E2-8**
**Summary Statistics by Assessment Area - Surface Water**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| 2,3,4,6,7,8-hxcdf | ng/L | 2 | / | 3 | 67 | 0.00199 | 0.00548 | 0.00064 | 0.00064 | 0.00374 | 0.00374 | 6.0901E-06 | 0.00247 | -- | -- | 0.00548 | Maximum Detect |
| 2,3,4,7,8-pecdf | ng/L | 3 | / | 3 | 100 | 0.002 | 0.0156 | N/A | N/A | 0.00718 | 0.00394 | 0.000054129 | 0.00736 | -- | -- | 0.0156 | Maximum Detect |
| 2,3,7,8-tcdd | ng/L | 0 | / | 3 | 0 | N/A | N/A | 0.00057 | 0.00084 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | ng/L | 3 | / | 3 | 100 | 0.0099 | 0.0376 | N/A | N/A | 0.0199 | 0.0123 | 0.00023552 | 0.0153 | -- | -- | 0.0376 | Maximum Detect |
| octa cdd | ng/L | 3 | / | 3 | 100 | 0.148 | 1.89 | N/A | N/A | 0.971 | 0.876 | 0.765 | 0.875 | -- | -- | 1.89 | Maximum Detect |
| octa cdf | ng/L | 3 | / | 3 | 100 | 0.0088 | 0.149 | N/A | N/A | 0.0675 | 0.0447 | 0.00531 | 0.0728 | -- | -- | 0.149 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Total Suspended Solids | mg/L | 3 | / | 3 | 100 | 64 | 496 | N/A | N/A | 290 | 310 | 46956 | 216.7 | -- | -- | 496 | Maximum Detect |
| **Upper Assessment Area** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Barium | mg/L | 4 | / | 4 | 100 | 0.0251 | 0.0319 | N/A | N/A | 0.0295 | 0.0305 | 9.2042E-06 | 0.00303 | -- | -- | 0.0319 | Maximum Detect |
| Cobalt | mg/L | 0 | / | 4 | 0 | N/A | N/A | 0.00063 | 0.01 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Chromium | mg/L | 4 | / | 4 | 100 | 0.000575 | 0.0017 | N/A | N/A | 0.00111 | 0.00108 | 2.1599E-07 | 0.00046475 | -- | -- | 0.0017 | Maximum Detect |
| Lead | mg/L | 4 | / | 4 | 100 | 0.00048 | 0.00084 | N/A | N/A | 0.0006275 | 0.000595 | 2.5825E-08 | 0.0001607 | -- | -- | 0.00084 | Maximum Detect |
| Mercury | mg/L | 0 | / | 15 | 0 | N/A | N/A | 0.000018 | 0.000068 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Vanadium | mg/L | 4 | / | 4 | 100 | 0.000495 | 0.0013 | N/A | N/A | 0.00102 | 0.00115 | 1.3092E-07 | 0.00036183 | -- | -- | 0.0013 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total Homolog PCBs | mg/L | 11 | / | 15 | 73 | 1.6000E-5 | 1.3200E-4 | 0.0000806 | 0.00016 | 6.8200E-5 | 6.4100E-5 | 1.2814E-9 | 3.5797E-5 | 0.00 | 95% KM (t) UCL | 0.000083089 | UCL |
| Aroclor-1016 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.000024 | 0.000024 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.000024 | 0.000024 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.000024 | 0.000024 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.000024 | 0.000024 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1248 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.000024 | 0.000024 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.000024 | 0.000024 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1260 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.000024 | 0.000024 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1262 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.000024 | 0.000024 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/L | 0 | / | 3 | 0 | N/A | N/A | 0.000024 | 0.000024 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#105 | mg/L | 0 | / | 5 | 0 | N/A | N/A | 0.0000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#114 | mg/L | 0 | / | 5 | 0 | N/A | N/A | 0.0000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/L | 0 | / | 5 | 0 | N/A | N/A | 0.0000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#123 | mg/L | 0 | / | 5 | 0 | N/A | N/A | 0.0000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/L | 0 | / | 5 | 0 | N/A | N/A | 0.0000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/L | 0 | / | 5 | 0 | N/A | N/A | 0.0000038 | 0.000038 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#156 | mg/L | 0 | / | 5 | 0 | N/A | N/A | 0.0000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#157 | mg/L | 0 | / | 5 | 0 | N/A | N/A | 0.0000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/L | 0 | / | 5 | 0 | N/A | N/A | 0.0000038 | 0.000038 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/L | 0 | / | 5 | 0 | N/A | N/A | 0.0000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/L | 0 | / | 5 | 0 | N/A | N/A | 0.0000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/L | 0 | / | 5 | 0 | N/A | N/A | 0.0000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/L | 0 | / | 5 | 0 | N/A | N/A | 0.0000038 | 0.000038 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | ng/L | 3 | / | 5 | 60 | 0.00129 | 0.0181 | 0.0011 | 0.00228 | 0.007 | 0.00162 | 0.000092379 | 0.00961 | -- | -- | 0.0181 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | ng/L | 0 | / | 5 | 0 | N/A | N/A | 0.00042 | 0.0027 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,7,8,9-hpcdf | ng/L | 0 | / | 5 | 0 | N/A | N/A | 0.00061 | 0.00079 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,7,8-hxcdd | ng/L | 0 | / | 5 | 0 | N/A | N/A | 0.00056 | 0.00068 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,7,8-hxcdf | ng/L | 2 | / | 5 | 40 | 0.00063 | 0.00126 | 0.00047 | 0.00065 | 0.000945 | 0.000945 | 1.9845E-07 | 0.00044548 | -- | -- | 0.00126 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | ng/L | 1 | / | 5 | 20 | 0.00053 | 0.00053 | 0.00046 | 0.00062 | 0.00053 | 0.00053 | N/A | N/A | -- | -- | 0.00053 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | ng/L | 1 | / | 5 | 20 | 0.00279 | 0.00279 | 0.00047 | 0.00065 | 0.00279 | 0.00279 | N/A | N/A | -- | -- | 0.00279 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | ng/L | 0 | / | 5 | 0 | N/A | N/A | 0.00048 | 0.00061 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Table E2-8**
**Summary Statistics by Assessment Area - Surface Water**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| 1,2,3,7,8,9-hxcdf | ng/L | 0 | / | 5 | 0 | N/A | N/A | 0.0006 | 0.00079 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | ng/L | 0 | / | 5 | 0 | N/A | N/A | 0.0005 | 0.00055 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | ng/L | 1 | / | 5 | 20 | 0.00352 | 0.00352 | 0.00054 | 0.0006 | 0.00352 | 0.00352 | N/A | N/A | -- | -- | 0.00352 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | ng/L | 1 | / | 5 | 20 | 0.00091 | 0.00091 | 0.00055 | 0.00071 | 0.00091 | 0.00091 | N/A | N/A | -- | -- | 0.00091 | Maximum Detect |
| 2,3,4,7,8-pecdf | ng/L | 1 | / | 5 | 20 | 0.00834 | 0.00834 | 0.00055 | 0.00087 | 0.00834 | 0.00834 | N/A | N/A | -- | -- | 0.00834 | Maximum Detect |
| 2,3,7,8-tcdd | ng/L | 0 | / | 5 | 0 | N/A | N/A | 0.00051 | 0.00062 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | ng/L | 2 | / | 5 | 40 | 0.00263 | 0.0305 | 0.00053 | 0.00094 | 0.0166 | 0.0166 | 0.00038837 | 0.0197 | -- | -- | 0.0305 | Maximum Detect |
| octa cdd | ng/L | 5 | / | 5 | 100 | 0.0293 | 0.561 | N/A | N/A | 0.139 | 0.0347 | 0.0556 | 0.236 | -- | -- | 0.561 | Maximum Detect |
| octa cdf | ng/L | 2 | / | 5 | 40 | 0.0018 | 0.0031 | 0.00098 | 0.001 | 0.00245 | 0.00245 | 0.000000845 | 0.00091924 | -- | -- | 0.0031 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Total Suspended Solids | mg/L | 15 | / | 15 | 100 | 5.7 | 15 | N/A | N/A | 9.26 | 8 | 8.412 | 2.9 | 10.58 | 95% Student's-t UCL | 10.58 | UCL |
| **Middle Assessment Area** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Barium | mg/L | 2 | / | 2 | 100 | 0.0248 | 0.0428 | N/A | N/A | 0.0338 | 0.0338 | 0.000162 | 0.0127 | -- | -- | 0.0428 | Maximum Detect |
| Cobalt | mg/L | 1 | / | 2 | 50 | 0.0022 | 0.0022 | 0.01 | 0.01 | 0.0022 | 0.0022 | N/A | N/A | -- | -- | 0.0022 | Maximum Detect |
| Chromium | mg/L | 1 | / | 2 | 50 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | N/A | N/A | -- | -- | 0.004 | Maximum Detect |
| Lead | mg/L | 2 | / | 2 | 100 | 0.00058 | 0.0048 | N/A | N/A | 0.00269 | 0.00269 | 8.9042E-06 | 0.00298 | -- | -- | 0.0048 | Maximum Detect |
| Mercury | mg/L | 0 | / | 12 | 0 | N/A | N/A | 0.000068 | 0.000068 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Vanadium | mg/L | 2 | / | 2 | 100 | 0.00057 | 0.0031 | N/A | N/A | 0.00184 | 0.00184 | 3.2005E-06 | 0.00179 | -- | -- | 0.0031 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total Homolog PCBs | mg/L | 12 | / | 12 | 100 | 0.0000476 | 0.000172 | N/A | N/A | 8.6808E-05 | 0.0000846 | 1.0044E-09 | 0.000031692 | 0.00 | 95% Adjusted Gamma UCL | 0.00010747 | UCL |
| BZ#105 | mg/L | 0 | / | 2 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#114 | mg/L | 0 | / | 2 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/L | 0 | / | 2 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#123 | mg/L | 0 | / | 2 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/L | 0 | / | 2 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/L | 0 | / | 2 | 0 | N/A | N/A | 0.000038 | 0.000038 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#156 | mg/L | 0 | / | 2 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#157 | mg/L | 0 | / | 2 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/L | 0 | / | 2 | 0 | N/A | N/A | 0.000038 | 0.000038 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/L | 0 | / | 2 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/L | 0 | / | 2 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/L | 0 | / | 2 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/L | 0 | / | 2 | 0 | N/A | N/A | 0.000038 | 0.000038 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | ng/L | 1 | / | 2 | 50 | 0.0386 | 0.0386 | 0.00274 | 0.00274 | 0.0386 | 0.0386 | N/A | N/A | -- | -- | 0.0386 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | ng/L | 0 | / | 2 | 0 | N/A | N/A | 0.0013 | 0.014 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,7,8,9-hpcdf | ng/L | 1 | / | 2 | 50 | 0.00186 | 0.00186 | 0.00064 | 0.00064 | 0.00186 | 0.00186 | N/A | N/A | -- | -- | 0.00186 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | ng/L | 1 | / | 2 | 50 | 0.0007 | 0.0007 | 0.00084 | 0.00084 | 0.0007 | 0.0007 | N/A | N/A | -- | -- | 0.0007 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | ng/L | 1 | / | 2 | 50 | 0.00537 | 0.00537 | 0.00053 | 0.00053 | 0.00537 | 0.00537 | N/A | N/A | -- | -- | 0.00537 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | ng/L | 1 | / | 2 | 50 | 0.00166 | 0.00166 | 0.00076 | 0.00076 | 0.00166 | 0.00166 | N/A | N/A | -- | -- | 0.00166 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | ng/L | 1 | / | 2 | 50 | 0.00975 | 0.00975 | 0.00052 | 0.00052 | 0.00975 | 0.00975 | N/A | N/A | -- | -- | 0.00975 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | ng/L | 1 | / | 2 | 50 | 0.00126 | 0.00126 | 0.00075 | 0.00075 | 0.00126 | 0.00126 | N/A | N/A | -- | -- | 0.00126 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | ng/L | 0 | / | 2 | 0 | N/A | N/A | 0.00057 | 0.00064 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | ng/L | 0 | / | 2 | 0 | N/A | N/A | 0.00051 | 0.00051 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Table E2-8**
**Summary Statistics by Assessment Area - Surface Water**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| 1,2,3,7,8-pecdf | ng/L | 1 | / | 2 | 50 | 0.00168 | 0.00168 | 0.00084 | 0.00084 | 0.00168 | 0.00168 | N/A | N/A | -- | -- | 0.00168 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | ng/L | 1 | / | 2 | 50 | 0.00122 | 0.00122 | 0.00058 | 0.00058 | 0.00122 | 0.00122 | N/A | N/A | -- | -- | 0.00122 | Maximum Detect |
| 2,3,4,7,8-pecdf | ng/L | 1 | / | 2 | 50 | 0.00486 | 0.00486 | 0.00086 | 0.00086 | 0.00486 | 0.00486 | N/A | N/A | -- | -- | 0.00486 | Maximum Detect |
| 2,3,7,8-tcdd | ng/L | 0 | / | 2 | 0 | N/A | N/A | 0.00052 | 0.00083 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | ng/L | 2 | / | 2 | 100 | 0.003 | 0.0567 | N/A | N/A | 0.0299 | 0.0299 | 0.00144 | 0.038 | -- | -- | 0.0567 | Maximum Detect |
| octa cdd | ng/L | 2 | / | 2 | 100 | 0.0382 | 0.642 | N/A | N/A | 0.34 | 0.34 | 0.182 | 0.427 | -- | -- | 0.642 | Maximum Detect |
| octa cdf | ng/L | 2 | / | 2 | 100 | 0.0025 | 0.0267 | N/A | N/A | 0.0146 | 0.0146 | 0.00029282 | 0.0171 | -- | -- | 0.0267 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Total Suspended Solids | mg/L | 12 | / | 12 | 100 | 4.1 | 63 | N/A | N/A | 13.74 | 9.5 | 254 | 15.94 | 22.16 | 95% H-UCL | 22.16 | UCL |
| **Lower Assessment Area** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Barium | mg/L | 1 | / | 1 | 100 | 0.0244 | 0.0244 | N/A | N/A | 0.0244 | 0.0244 | N/A | N/A | -- | -- | 0.0244 | Maximum Detect |
| Cobalt | mg/L | 0 | / | 1 | 0 | N/A | N/A | 0.01 | 0.01 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Chromium | mg/L | 1 | / | 1 | 100 | 0.00067 | 0.00067 | N/A | N/A | 0.00067 | 0.00067 | N/A | N/A | -- | -- | 0.00067 | Maximum Detect |
| Lead | mg/L | 1 | / | 1 | 100 | 0.00034 | 0.00034 | N/A | N/A | 0.00034 | 0.00034 | N/A | N/A | -- | -- | 0.00034 | Maximum Detect |
| Mercury | mg/L | 1 | / | 13 | 7.7 | 0.000069 | 0.000069 | 0.000068 | 0.000068 | 0.000069 | 0.000069 | N/A | N/A | -- | -- | 0.000069 | Maximum Detect |
| Vanadium | mg/L | 1 | / | 1 | 100 | 0.00039 | 0.00039 | N/A | N/A | 0.00039 | 0.00039 | N/A | N/A | -- | -- | 0.00039 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total Homolog PCBs | mg/L | 13 | / | 13 | 100 | 0.0000242 | 0.000309 | N/A | N/A | 7.2765E-05 | 0.00005365 | 5.2386E-09 | 0.000072378 | 0.00 | 95% Chebyshev (Mean, Sd) UCL | 0.00016027 | UCL |
| BZ#105 | mg/L | 0 | / | 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#114 | mg/L | 0 | / | 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/L | 0 | / | 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#123 | mg/L | 0 | / | 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/L | 0 | / | 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/L | 0 | / | 1 | 0 | N/A | N/A | 0.000038 | 0.000038 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#156 | mg/L | 0 | / | 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#157 | mg/L | 0 | / | 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/L | 0 | / | 1 | 0 | N/A | N/A | 0.000038 | 0.000038 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/L | 0 | / | 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/L | 0 | / | 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/L | 0 | / | 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/L | 0 | / | 1 | 0 | N/A | N/A | 0.000038 | 0.000038 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | ng/L | 0 | / | 1 | 0 | N/A | N/A | 0.0018 | 0.0018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,6,7,8-hpcdf | ng/L | 0 | / | 1 | 0 | N/A | N/A | 0.00065 | 0.00065 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,7,8,9-hpcdf | ng/L | 0 | / | 1 | 0 | N/A | N/A | 0.00055 | 0.00055 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,7,8-hxcdd | ng/L | 0 | / | 1 | 0 | N/A | N/A | 0.00056 | 0.00056 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,7,8-hxcdf | ng/L | 0 | / | 1 | 0 | N/A | N/A | 0.00048 | 0.00048 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,6,7,8-hxcdd | ng/L | 0 | / | 1 | 0 | N/A | N/A | 0.00051 | 0.00051 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,6,7,8-hxcdf | ng/L | 0 | / | 1 | 0 | N/A | N/A | 0.00048 | 0.00048 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8,9-hxcdd | ng/L | 0 | / | 1 | 0 | N/A | N/A | 0.0005 | 0.0005 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8,9-hxcdf | ng/L | 0 | / | 1 | 0 | N/A | N/A | 0.00059 | 0.00059 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | ng/L | 0 | / | 1 | 0 | N/A | N/A | 0.0005 | 0.0005 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | ng/L | 0 | / | 1 | 0 | N/A | N/A | 0.00048 | 0.00048 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,4,6,7,8-hxcdf | ng/L | 0 | / | 1 | 0 | N/A | N/A | 0.00053 | 0.00053 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,4,7,8-pecdf | ng/L | 0 | / | 1 | 0 | N/A | N/A | 0.00053 | 0.00053 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdd | ng/L | 0 | / | 1 | 0 | N/A | N/A | 0.00049 | 0.00049 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | ng/L | 1 | / | 1 | 100 | 0.00103 | 0.00103 | N/A | N/A | 0.00103 | 0.00103 | N/A | N/A | -- | -- | 0.00103 | Maximum Detect |
| octa cdd | ng/L | 1 | / | 1 | 100 | 0.0319 | 0.0319 | N/A | N/A | 0.0319 | 0.0319 | N/A | N/A | -- | -- | 0.0319 | Maximum Detect |

**Table E2-8**
**Summary Statistics by Assessment Area - Surface Water**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| octa cdf | ng/L | 0 | / | 1 | 0 | N/A | N/A | 0.001 | 0.001 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Total Suspended Solids | mg/L | 13 | / | 13 | 100 | 0.7 | 7.7 | N/A | N/A | 3.573 | 3.35 | 2.965 | 1.722 | 4.42 | 95% Student's-t UCL | 4.424 | UCL |

**Notes:**
"--" = not applicable
% = percent
EPC = exposure point concentration
mg/L = milligrams per liter
N/A = not available
ng/L =nanograms per liter
PCB = polychlorinated biphenyl
TOC = total organic carbon
UCL = upper confidence limit

**Table E2-9**
**Summary Statistics by Assessment Area - Aquatic Tissue**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | |
| **Aquatic Plants** | | | | | | | | | | | | | | | | |
| Upper | PCBs | mg/kg dw | 9 / 9 | 100 | 0.414 | 1.194 | N/A | N/A | 0.823 | 0.8 | 0.0624 | 0.25 | 0.978 | 95% Student's-t UCL | 0.978 | UCL |
| Middle | PCBs | mg/kg dw | 6 / 9 | 67 | 0.39 | 1.69 | 0.0817 | 0.117 | 0.867 | 0.753 | 0.294 | 0.543 | 0.978 | 95% KM (t) UCL | 0.978 | UCL |
| Lower | PCBs | mg/kg dw | 6 / 9 | 67 | 0.244 | 0.631 | 0.073 | 0.0846 | 0.402 | 0.348 | 0.0277 | 0.166 | 0.427 | 95% KM (t) UCL | 0.427 | UCL |
| **Emergent Insects** | | | | | | | | | | | | | | | | |
| Upper | PCBs | mg/kg dw | 9 / 9 | 100 | 0.305 | 27.22 | N/A | N/A | 15.63 | 20.49 | 125.8 | 11.21 | 22.58 | 95% Student's-t UCL | 22.58 | UCL |
| Middle | PCBs | mg/kg dw | 9 / 9 | 100 | 0.31 | 1.011 | N/A | N/A | 0.685 | 0.691 | 0.0382 | 0.195 | 0.806 | 95% Student's-t UCL | 0.806 | UCL |
| Lower | PCBs | mg/kg dw | 9 / 9 | 100 | 0.67 | 1.381 | N/A | N/A | 0.957 | 0.952 | 0.0604 | 0.246 | 1.109 | 95% Student's-t UCL | 1.109 | UCL |
| **Benthic Invertebrates (Odonata)** | | | | | | | | | | | | | | | | |
| Upper | PCBs | mg/kg dw | 9 / 9 | 100 | 0.864 | 3.511 | N/A | N/A | 1.696 | 1.25 | 0.956 | 0.978 | 2.653 | 95% Adjusted Gamma UCL | 2.653 | UCL |
| Middle | PCBs | mg/kg dw | 9 / 9 | 100 | 1.179 | 1.987 | N/A | N/A | 1.615 | 1.568 | 0.117 | 0.342 | 1.828 | 95% Student's-t UCL | 1.828 | UCL |
| Lower | PCBs | mg/kg dw | 9 / 9 | 100 | 0.614 | 1.566 | N/A | N/A | 0.922 | 0.904 | 0.0726 | 0.269 | 1.089 | 95% Student's-t UCL | 1.089 | UCL |
| **Crayfish** | | | | | | | | | | | | | | | | |
| Upper | PCBs | mg/kg dw | 7 / 7 | 100 | 1.288 | 3.8 | N/A | N/A | 2.464 | 2.199 | 0.962 | 0.981 | -- | -- | 3.8 | Maximum Detect |
| Middle | PCBs | mg/kg dw | 7 / 7 | 100 | 0.892 | 2.622 | N/A | N/A | 1.809 | 1.828 | 0.453 | 0.673 | -- | -- | 2.622 | Maximum Detect |
| Lower | PCBs | mg/kg dw | 9 / 9 | 100 | 0.235 | 1.276 | N/A | N/A | 0.833 | 0.827 | 0.118 | 0.343 | 1.045 | 95% Student's-t UCL | 1.045 | UCL |
| **Mollusc** | | | | | | | | | | | | | | | | |
| Upper | PCBs | mg/kg dw | 9 / 9 | 100 | 5.905 | 16.89 | N/A | N/A | 11.72 | 11.59 | 17.42 | 4.174 | 14.3 | 95% Student's-t UCL | 14.3 | UCL |
| Middle | PCBs | mg/kg dw | 9 / 9 | 100 | 4.598 | 11.88 | N/A | N/A | 7.735 | 6.44 | 7.96 | 2.821 | 9.484 | 95% Student's-t UCL | 9.484 | UCL |
| Lower | PCBs | mg/kg dw | 9 / 9 | 100 | 6.076 | 13.77 | N/A | N/A | 10.58 | 11.01 | 4.94 | 2.223 | 11.96 | 95% Student's-t UCL | 11.96 | UCL |
| **Frogs** | | | | | | | | | | | | | | | | |
| Upper | PCBs | mg/kg dw | 7 / 7 | 100 | 2.531 | 38.45 | N/A | N/A | 15.15 | 14.58 | 139.8 | 11.82 | -- | -- | 38.45 | Maximum Detect |
| Middle | PCBs | mg/kg dw | 7 / 7 | 100 | 2.424 | 4.582 | N/A | N/A | 3.39 | 3.087 | 0.697 | 0.835 | -- | -- | 4.582 | Maximum Detect |
| Lower | PCBs | mg/kg dw | 2 / 2 | 100 | 5.285 | 5.431 | N/A | N/A | 5.358 | 5.358 | 0.0107 | 0.103 | -- | -- | 5.431 | Maximum Detect |
| **Snakes** | | | | | | | | | | | | | | | | |
| Upper | PCBs | mg/kg dw | 2 / 2 | 100 | 25.89 | 166.5 | N/A | N/A | 96.21 | 96.21 | 9888 | 99.44 | -- | -- | 166.5 | Maximum Detect |
| Middle | PCBs | mg/kg dw | 2 / 2 | 100 | 18.94 | 122.3 | N/A | N/A | 70.62 | 70.62 | 5342 | 73.09 | -- | -- | 122.3 | Maximum Detect |
| Lower | PCBs | mg/kg dw | 7 / 7 | 100 | 26.08 | 55.17 | N/A | N/A | 39.16 | 34.75 | 110.6 | 10.52 | -- | -- | 55.17 | Maximum Detect |
| **Predator Fish** | | | | | | | | | | | | | | | | |
| Upper | PCBs | mg/kg dw | 9 / 9 | 100 | 21.79 | 175.2 | N/A | N/A | 84.03 | 88.74 | 1935 | 43.98 | 111.3 | 95% Student's-t UCL | 111.3 | UCL |
| Middle | PCBs | mg/kg dw | 9 / 9 | 100 | 36.99 | 126.5 | N/A | N/A | 74.03 | 71.67 | 1190 | 34.5 | 95.42 | 95% Student's-t UCL | 95.42 | UCL |
| Lower | PCBs | mg/kg dw | 9 / 9 | 100 | 42.47 | 126.8 | N/A | N/A | 83.2 | 88 | 904.7 | 30.08 | 101.8 | 95% Student's-t UCL | 101.8 | UCL |
| **Forage Fish** | | | | | | | | | | | | | | | | |
| Upper | PCBs | mg/kg dw | 27 / 27 | 100 | 6.77 | 43.7 | N/A | N/A | 20.92 | 18.56 | 74.19 | 8.613 | 23.75 | 95% Student's-t UCL | 23.75 | UCL |
| Middle | PCBs | mg/kg dw | 27 / 27 | 100 | 18.41 | 51.09 | N/A | N/A | 32.83 | 32.33 | 93.49 | 9.669 | 36.01 | 95% Student's-t UCL | 36.01 | UCL |
| Lower | PCBs | mg/kg dw | 27 / 27 | 100 | 16.47 | 47.37 | N/A | N/A | 30.73 | 31.1 | 71.68 | 8.467 | 33.51 | 95% Student's-t UCL | 33.51 | UCL |
| **Bottom Fish** | | | | | | | | | | | | | | | | |
| Upper | PCBs | mg/kg dw | 9 / 9 | 100 | 33.77 | 67.51 | N/A | N/A | 52.69 | 48.44 | 169.1 | 13 | 60.75 | 95% Student's-t UCL | 60.75 | UCL |
| Middle | PCBs | mg/kg dw | 9 / 9 | 100 | 18.23 | 50.76 | N/A | N/A | 32.3 | 30.82 | 112.5 | 10.6 | 38.87 | 95% Student's-t UCL | 38.87 | UCL |
| Lower | PCBs | mg/kg dw | 9 / 9 | 100 | 22.41 | 84.27 | N/A | N/A | 53.47 | 56.11 | 422 | 20.54 | 66.2 | 95% Student's-t UCL | 66.2 | UCL |

**Table E2-9**
**Summary Statistics by Assessment Area - Aquatic Tissue**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **All Fish** | | | | | | | | | | | | | | | | |
| Upper | PCBs | mg/kg dw | 45 / 45 | 100 | 6.77 | 175.2 | N/A | N/A | 39.9 | 30.67 | 1079 | 32.85 | 50.11 | 95% H-UCL | 50.11 | UCL |
| Middle | PCBs | mg/kg dw | 45 / 45 | 100 | 18.23 | 126.5 | N/A | N/A | 40.96 | 35.03 | 571.7 | 23.91 | 45.99 | 95% H-UCL | 45.99 | UCL |
| Lower | PCBs | mg/kg dw | 45 / 45 | 100 | 16.47 | 126.8 | N/A | N/A | 45.77 | 35.25 | 721 | 26.85 | 52.83 | 95% H-UCL | 52.83 | UCL |
| **Mercury** | | | | | | | | | | | | | | | | |
| **Aquatic Plants** | | | | | | | | | | | | | | | | |
| Upper | Hg | mg/kg dw | 7 / 9 | 78 | 0.0457 | 0.113 | 0.0402 | 0.049 | 0.0787 | 0.0798 | 0.00043022 | 0.0207 | 0.0859 | 95% KM (t) UCL | 0.0859 | UCL |
| Middle | Hg | mg/kg dw | 5 / 9 | 56 | 0.0625 | 0.376 | 0.0467 | 0.0493 | 0.134 | 0.0814 | 0.0183 | 0.135 | 0.258 | 95% KM (Chebyshev) UCL | 0.258 | UCL |
| Lower | Hg | mg/kg dw | 7 / 9 | 78 | 0.0325 | 0.0924 | 0.0455 | 0.0478 | 0.0634 | 0.0667 | 0.00034443 | 0.0186 | 0.0699 | 95% KM (t) UCL | 0.0699 | UCL |
| **Emergent Insects** | | | | | | | | | | | | | | | | |
| Upper | Hg | mg/kg dw | 9 / 9 | 100 | 0.105 | 0.417 | N/A | N/A | 0.25 | 0.274 | 0.0132 | 0.115 | 0.321 | 95% Student's-t UCL | 0.321 | UCL |
| Middle | Hg | mg/kg dw | 9 / 9 | 100 | 0.0337 | 0.318 | N/A | N/A | 0.134 | 0.128 | 0.00754 | 0.0868 | 0.188 | 95% Student's-t UCL | 0.188 | UCL |
| Lower | Hg | mg/kg dw | 9 / 9 | 100 | 0.0813 | 0.253 | N/A | N/A | 0.17 | 0.168 | 0.00328 | 0.0573 | 0.206 | 95% Student's-t UCL | 0.206 | UCL |
| **Benthic Invertebrates (Odonata)** | | | | | | | | | | | | | | | | |
| Upper | Hg | mg/kg dw | 9 / 9 | 100 | 0.128 | 0.311 | N/A | N/A | 0.192 | 0.179 | 0.00416 | 0.0645 | 0.232 | 95% Student's-t UCL | 0.232 | UCL |
| Middle | Hg | mg/kg dw | 9 / 9 | 100 | 0.22 | 0.444 | N/A | N/A | 0.301 | 0.284 | 0.00629 | 0.0793 | 0.35 | 95% Student's-t UCL | 0.35 | UCL |
| Lower | Hg | mg/kg dw | 9 / 9 | 100 | 0.254 | 0.696 | N/A | N/A | 0.382 | 0.339 | 0.0235 | 0.153 | 0.476 | 95% Student's-t UCL | 0.476 | UCL |
| **Crayfish** | | | | | | | | | | | | | | | | |
| Upper | Hg | mg/kg dw | 6 / 7 | 86 | 0.115 | 0.19 | 0.8 | 0.8 | 0.136 | 0.126 | 0.00076356 | 0.0276 | -- | -- | 0.19 | Maximum Detect |
| Middle | Hg | mg/kg dw | 7 / 7 | 100 | 0.119 | 0.206 | N/A | N/A | 0.167 | 0.174 | 0.00125 | 0.0353 | -- | -- | 0.206 | Maximum Detect |
| Lower | Hg | mg/kg dw | 8 / 9 | 89 | 0.109 | 0.287 | 0.725 | 0.725 | 0.194 | 0.197 | 0.00367 | 0.0605 | 0.234 | 95% KM (t) UCL | 0.234 | UCL |
| **Mollusc** | | | | | | | | | | | | | | | | |
| Upper | Hg | mg/kg dw | 9 / 9 | 100 | 0.14 | 0.377 | N/A | N/A | 0.24 | 0.25 | 0.00697 | 0.0835 | 0.292 | 95% Student's-t UCL | 0.292 | UCL |
| Middle | Hg | mg/kg dw | 9 / 9 | 100 | 0.136 | 0.424 | N/A | N/A | 0.3 | 0.326 | 0.00918 | 0.0958 | 0.36 | 95% Student's-t UCL | 0.36 | UCL |
| Lower | Hg | mg/kg dw | 9 / 9 | 100 | 0.519 | 1.014 | N/A | N/A | 0.769 | 0.779 | 0.0237 | 0.154 | 0.864 | 95% Student's-t UCL | 0.864 | UCL |
| **Frogs** | | | | | | | | | | | | | | | | |
| Upper | Hg | mg/kg dw | 7 / 7 | 100 | 0.122 | 1.031 | N/A | N/A | 0.646 | 0.729 | 0.146 | 0.382 | -- | -- | 1.031 | Maximum Detect |
| Middle | Hg | mg/kg dw | 7 / 7 | 100 | 0.235 | 1.755 | N/A | N/A | 0.566 | 0.328 | 0.295 | 0.543 | -- | -- | 1.755 | Maximum Detect |
| Lower | Hg | mg/kg dw | 2 / 2 | 100 | 0.321 | 0.56 | N/A | N/A | 0.441 | 0.441 | 0.0286 | 0.169 | -- | -- | 0.56 | Maximum Detect |
| **Snakes** | | | | | | | | | | | | | | | | |
| Upper | Hg | mg/kg dw | 2 / 2 | 100 | 0.609 | 0.875 | N/A | N/A | 0.742 | 0.742 | 0.0356 | 0.189 | -- | -- | 0.875 | Maximum Detect |
| Middle | Hg | mg/kg dw | 2 / 2 | 100 | 0.54 | 1.705 | N/A | N/A | 1.122 | 1.122 | 0.678 | 0.823 | -- | -- | 1.705 | Maximum Detect |
| Lower | Hg | mg/kg dw | 7 / 7 | 100 | 0.424 | 2.117 | N/A | N/A | 1.24 | 1.128 | 0.366 | 0.605 | -- | -- | 2.117 | Maximum Detect |
| **Predator Fish** | | | | | | | | | | | | | | | | |
| Upper | Hg | mg/kg dw | 9 / 9 | 100 | 0.856 | 1.949 | N/A | N/A | 1.24 | 1.058 | 0.135 | 0.368 | 1.468 | 95% Student's-t UCL | 1.468 | UCL |
| Middle | Hg | mg/kg dw | 9 / 9 | 100 | 0.965 | 1.969 | N/A | N/A | 1.401 | 1.388 | 0.0936 | 0.306 | 1.591 | 95% Student's-t UCL | 1.591 | UCL |
| Lower | Hg | mg/kg dw | 9 / 9 | 100 | 1.47 | 3.04 | N/A | N/A | 2.035 | 1.923 | 0.264 | 0.514 | 2.353 | 95% Student's-t UCL | 2.353 | UCL |
| **Forage Fish** | | | | | | | | | | | | | | | | |
| Upper | Hg | mg/kg dw | 26 / 27 | 96 | 0.0607 | 0.277 | 0.0462 | 0.0462 | 0.165 | 0.157 | 0.00396 | 0.0629 | 0.182 | 95% KM (t) UCL | 0.182 | UCL |
| Middle | Hg | mg/kg dw | 27 / 27 | 100 | 0.239 | 0.761 | N/A | N/A | 0.471 | 0.484 | 0.0157 | 0.125 | 0.512 | 95% Student's-t UCL | 0.512 | UCL |
| Lower | Hg | mg/kg dw | 27 / 27 | 100 | 0.212 | 1.085 | N/A | N/A | 0.573 | 0.518 | 0.0496 | 0.223 | 0.646 | 95% Student's-t UCL | 0.646 | UCL |

**Table E2-9**
**Summary Statistics by Assessment Area - Aquatic Tissue**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Bottom Fish** | | | | | | | | | | | | | | | | |
| Upper | Hg | mg/kg dw | 9 / 9 | 100 | 0.262 | 0.75 | N/A | N/A | 0.463 | 0.458 | 0.0283 | 0.168 | 0.567 | 95% Student's-t UCL | 0.567 | UCL |
| Middle | Hg | mg/kg dw | 9 / 9 | 100 | 0.157 | 0.466 | N/A | N/A | 0.326 | 0.369 | 0.0137 | 0.117 | 0.399 | 95% Student's-t UCL | 0.399 | UCL |
| Lower | Hg | mg/kg dw | 9 / 9 | 100 | 0.351 | 1.411 | N/A | N/A | 0.678 | 0.656 | 0.129 | 0.359 | 0.9 | 95% Student's-t UCL | 0.9 | UCL |
| **All Fish** | | | | | | | | | | | | | | | | |
| Upper | Hg | mg/kg dw | 44 / 45 | 98 | 0.0607 | 1.949 | 0.0462 | 0.0462 | 0.446 | 0.241 | 0.212 | 0.461 | 0.736 | 95% KM (Chebyshev) UCL | 0.736 | UCL |
| Middle | Hg | mg/kg dw | 45 / 45 | 100 | 0.157 | 1.969 | N/A | N/A | 0.628 | 0.484 | 0.185 | 0.43 | 0.741 | 95% H-UCL | 0.741 | UCL |
| Lower | Hg | mg/kg dw | 45 / 45 | 100 | 0.212 | 3.04 | N/A | N/A | 0.886 | 0.656 | 0.44 | 0.663 | 1.07 | 95% H-UCL | 1.07 | UCL |
| **Barium** | | | | | | | | | | | | | | | | |
| **Aquatic Plants** | | | | | | | | | | | | | | | | |
| Upper | Ba | mg/kg dw | 1 / 1 | 100 | 70.12 | 70.12 | N/A | N/A | 70.12 | 70.12 | N/A | N/A | -- | -- | 70.12 | Maximum Detect |
| Middle | Ba | mg/kg dw | 1 / 1 | 100 | 50 | 50 | N/A | N/A | 50 | 50 | N/A | N/A | -- | -- | 50 | Maximum Detect |
| Lower | Ba | mg/kg dw | 1 / 1 | 100 | 66.24 | 66.24 | N/A | N/A | 66.24 | 66.24 | N/A | N/A | -- | -- | 66.24 | Maximum Detect |
| **Emergent Insects** | | | | | | | | | | | | | | | | |
| Upper | Ba | mg/kg dw | 1 / 1 | 100 | 4.422 | 4.422 | N/A | N/A | 4.422 | 4.422 | N/A | N/A | -- | -- | 4.422 | Maximum Detect |
| Middle | Ba | mg/kg dw | 1 / 1 | 100 | 11.35 | 11.35 | N/A | N/A | 11.35 | 11.35 | N/A | N/A | -- | -- | 11.35 | Maximum Detect |
| Lower | Ba | mg/kg dw | 1 / 1 | 100 | 5.137 | 5.137 | N/A | N/A | 5.137 | 5.137 | N/A | N/A | -- | -- | 5.137 | Maximum Detect |
| **Benthic Invertebrates (Odonata)** | | | | | | | | | | | | | | | | |
| Upper | Ba | mg/kg dw | 1 / 1 | 100 | 60 | 60 | N/A | N/A | 60 | 60 | N/A | N/A | -- | -- | 60 | Maximum Detect |
| Middle | Ba | mg/kg dw | 1 / 1 | 100 | 37.33 | 37.33 | N/A | N/A | 37.33 | 37.33 | N/A | N/A | -- | -- | 37.33 | Maximum Detect |
| Lower | Ba | mg/kg dw | 1 / 1 | 100 | 37.34 | 37.34 | N/A | N/A | 37.34 | 37.34 | N/A | N/A | -- | -- | 37.34 | Maximum Detect |
| **Crayfish** | | | | | | | | | | | | | | | | |
| Upper | Ba | mg/kg dw | 2 / 2 | 100 | 161.6 | 199.3 | N/A | N/A | 180.4 | 180.4 | 709.5 | 26.64 | -- | -- | 199.3 | Maximum Detect |
| Lower | Ba | mg/kg dw | 1 / 1 | 100 | 107.2 | 107.2 | N/A | N/A | 107.2 | 107.2 | N/A | N/A | -- | -- | 107.2 | Maximum Detect |
| **Mollusc** | | | | | | | | | | | | | | | | |
| Upper | Ba | mg/kg dw | 1 / 1 | 100 | 34.15 | 34.15 | N/A | N/A | 34.15 | 34.15 | N/A | N/A | -- | -- | 34.15 | Maximum Detect |
| Middle | Ba | mg/kg dw | 1 / 1 | 100 | 27.06 | 27.06 | N/A | N/A | 27.06 | 27.06 | N/A | N/A | -- | -- | 27.06 | Maximum Detect |
| Lower | Ba | mg/kg dw | 1 / 1 | 100 | 32.93 | 32.93 | N/A | N/A | 32.93 | 32.93 | N/A | N/A | -- | -- | 32.93 | Maximum Detect |
| **Frogs** | | | | | | | | | | | | | | | | |
| Upper | Ba | mg/kg dw | 2 / 2 | 100 | 43.7 | 43.98 | N/A | N/A | 43.84 | 43.84 | 0.0403 | 0.201 | -- | -- | 43.98 | Maximum Detect |
| **Snakes** | | | | | | | | | | | | | | | | |
| Lower | Ba | mg/kg dw | 1 / 1 | 100 | 9.91 | 9.91 | N/A | N/A | 9.91 | 9.91 | N/A | N/A | -- | -- | 9.91 | Maximum Detect |
| **Predator Fish** | | | | | | | | | | | | | | | | |
| Middle | Ba | mg/kg dw | 1 / 1 | 100 | 3.39 | 3.39 | N/A | N/A | 3.39 | 3.39 | N/A | N/A | -- | -- | 3.39 | Maximum Detect |
| Lower | Ba | mg/kg dw | 2 / 3 | 67 | 6.289 | 15.29 | 30.82 | 30.82 | 10.79 | 10.79 | 40.5 | 6.364 | -- | -- | 15.29 | Maximum Detect |
| **Forage Fish** | | | | | | | | | | | | | | | | |
| Upper | Ba | mg/kg dw | 4 / 4 | 100 | 8.108 | 32.95 | N/A | N/A | 15.63 | 10.74 | 136.8 | 11.7 | -- | -- | 32.95 | Maximum Detect |
| Lower | Ba | mg/kg dw | 0 / 2 | 0 | N/A | N/A | 378.8 | 384.6 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Bottom Fish** | | | | | | | | | | | | | | | | |
| Upper | Ba | mg/kg dw | 1 / 1 | 100 | 10 | 10 | N/A | N/A | 10 | 10 | N/A | N/A | -- | -- | 10 | Maximum Detect |
| Middle | Ba | mg/kg dw | 1 / 1 | 100 | 2.032 | 2.032 | N/A | N/A | 2.032 | 2.032 | N/A | N/A | -- | -- | 2.032 | Maximum Detect |
| Lower | Ba | mg/kg dw | 1 / 2 | 50 | 9.61 | 9.61 | 32.08 | 32.08 | 9.61 | 9.61 | N/A | N/A | -- | -- | 9.61 | Maximum Detect |

**Table E2-9**
**Summary Statistics by Assessment Area - Aquatic Tissue**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **All Fish** | | | | | | | | | | | | | | | | | | |
| Upper | Ba | mg/kg dw | 5 | / | 5 | 100 | 8.108 | 32.95 | N/A | N/A | 14.51 | 10 | 108.9 | 10.44 | -- | -- | 32.95 | Maximum Detect |
| Middle | Ba | mg/kg dw | 2 | / | 2 | 100 | 2.032 | 3.39 | N/A | N/A | 2.711 | 2.711 | 0.923 | 0.96 | -- | -- | 3.39 | Maximum Detect |
| Lower | Ba | mg/kg dw | 3 | / | 7 | 43 | 6.289 | 15.29 | 30.82 | 384.6 | 10.4 | 9.61 | 20.71 | 4.551 | -- | -- | 15.29 | Maximum Detect |
| **Cobalt** | | | | | | | | | | | | | | | | | | |
| **Aquatic Plants** | | | | | | | | | | | | | | | | | | |
| Upper | Co | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 41.49 | 41.49 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Middle | Co | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 69.44 | 69.44 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | Co | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 5.732 | 5.732 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Emergent Insects** | | | | | | | | | | | | | | | | | | |
| Upper | Co | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 34.01 | 34.01 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Middle | Co | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 30.67 | 30.67 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | Co | mg/kg dw | 1 | / | 1 | 100 | 0.284 | 0.284 | N/A | N/A | 0.284 | 0.284 | N/A | N/A | -- | -- | 0.284 | Maximum Detect |
| **Benthic Invertebrates (Odonata)** | | | | | | | | | | | | | | | | | | |
| Upper | Co | mg/kg dw | 1 | / | 1 | 100 | 4.444 | 4.444 | N/A | N/A | 4.444 | 4.444 | N/A | N/A | -- | -- | 4.444 | Maximum Detect |
| Middle | Co | mg/kg dw | 1 | / | 1 | 100 | 4.267 | 4.267 | N/A | N/A | 4.267 | 4.267 | N/A | N/A | -- | -- | 4.267 | Maximum Detect |
| Lower | Co | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 63.29 | 63.29 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Crayfish** | | | | | | | | | | | | | | | | | | |
| Upper | Co | mg/kg dw | 0 | / | 2 | 0 | N/A | N/A | 36.5 | 40 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | Co | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 36.23 | 36.23 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Mollusc** | | | | | | | | | | | | | | | | | | |
| Upper | Co | mg/kg dw | 1 | / | 1 | 100 | 3.415 | 3.415 | N/A | N/A | 3.415 | 3.415 | N/A | N/A | -- | -- | 3.415 | Maximum Detect |
| Middle | Co | mg/kg dw | 1 | / | 1 | 100 | 3.882 | 3.882 | N/A | N/A | 3.882 | 3.882 | N/A | N/A | -- | -- | 3.882 | Maximum Detect |
| Lower | Co | mg/kg dw | 1 | / | 1 | 100 | 3.537 | 3.537 | N/A | N/A | 3.537 | 3.537 | N/A | N/A | -- | -- | 3.537 | Maximum Detect |
| **Frogs** | | | | | | | | | | | | | | | | | | |
| Upper | Co | mg/kg dw | 2 | / | 2 | 100 | 1.435 | 1.555 | N/A | N/A | 1.495 | 1.495 | 0.00713 | 0.0845 | -- | -- | 1.555 | Maximum Detect |
| **Snakes** | | | | | | | | | | | | | | | | | | |
| Lower | Co | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 45.05 | 45.05 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Predator Fish** | | | | | | | | | | | | | | | | | | |
| Middle | Co | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 0.0411 | 0.0411 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | Co | mg/kg dw | 2 | / | 3 | 67 | 0.204 | 0.455 | 3.226 | 3.226 | 0.329 | 0.329 | 0.0313 | 0.177 | -- | -- | 0.455 | Maximum Detect |
| **Forage Fish** | | | | | | | | | | | | | | | | | | |
| Upper | Co | mg/kg dw | 0 | / | 4 | 0 | N/A | N/A | 2.905 | 38.61 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | Co | mg/kg dw | 0 | / | 2 | 0 | N/A | N/A | 37.88 | 38.46 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Bottom Fish** | | | | | | | | | | | | | | | | | | |
| Upper | Co | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 2.5 | 2.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Middle | Co | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 0.0294 | 0.0294 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | Co | mg/kg dw | 1 | / | 2 | 50 | 0.3 | 0.3 | 3.396 | 3.396 | 0.3 | 0.3 | N/A | N/A | -- | -- | 0.3 | Maximum Detect |
| **All Fish** | | | | | | | | | | | | | | | | | | |
| Upper | Co | mg/kg dw | 0 | / | 5 | 0 | N/A | N/A | 2.5 | 38.61 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Middle | Co | mg/kg dw | 0 | / | 2 | 0 | N/A | N/A | 0.0294 | 0.0411 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | Co | mg/kg dw | 3 | / | 7 | 43 | 0.204 | 0.455 | 3.226 | 38.46 | 0.32 | 0.3 | 0.0159 | 0.126 | -- | -- | 0.455 | Maximum Detect |

**Table E2-9**
**Summary Statistics by Assessment Area - Aquatic Tissue**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Chromium** | | | | | | | | | | | | | | | | |
| **Aquatic Plants** | | | | | | | | | | | | | | | | |
| Upper | Cr | mg/kg dw | 1 / 1 | 100 | 2.573 | 2.573 | N/A | N/A | 2.573 | 2.573 | N/A | N/A | -- | -- | 2.573 | Maximum Detect |
| Middle | Cr | mg/kg dw | 1 / 1 | 100 | 3.125 | 3.125 | N/A | N/A | 3.125 | 3.125 | N/A | N/A | -- | -- | 3.125 | Maximum Detect |
| Lower | Cr | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 2.293 | 2.293 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Emergent Insects** | | | | | | | | | | | | | | | | |
| Upper | Cr | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 13.61 | 13.61 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Middle | Cr | mg/kg dw | 1 / 1 | 100 | 11.66 | 11.66 | N/A | N/A | 11.66 | 11.66 | N/A | N/A | -- | -- | 11.66 | Maximum Detect |
| Lower | Cr | mg/kg dw | 1 / 1 | 100 | 13.36 | 13.36 | N/A | N/A | 13.36 | 13.36 | N/A | N/A | -- | -- | 13.36 | Maximum Detect |
| **Benthic Invertebrates (Odonata)** | | | | | | | | | | | | | | | | |
| Upper | Cr | mg/kg dw | 1 / 1 | 100 | 3.333 | 3.333 | N/A | N/A | 3.333 | 3.333 | N/A | N/A | -- | -- | 3.333 | Maximum Detect |
| Middle | Cr | mg/kg dw | 1 / 1 | 100 | 3.867 | 3.867 | N/A | N/A | 3.867 | 3.867 | N/A | N/A | -- | -- | 3.867 | Maximum Detect |
| Lower | Cr | mg/kg dw | 1 / 1 | 100 | 3.228 | 3.228 | N/A | N/A | 3.228 | 3.228 | N/A | N/A | -- | -- | 3.228 | Maximum Detect |
| **Crayfish** | | | | | | | | | | | | | | | | |
| Upper | Cr | mg/kg dw | 1 / 2 | 50 | 1.387 | 1.387 | 16 | 16 | 1.387 | 1.387 | N/A | N/A | -- | -- | 1.387 | Maximum Detect |
| Lower | Cr | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 14.49 | 14.49 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Mollusc** | | | | | | | | | | | | | | | | |
| Upper | Cr | mg/kg dw | 1 / 1 | 100 | 9.268 | 9.268 | N/A | N/A | 9.268 | 9.268 | N/A | N/A | -- | -- | 9.268 | Maximum Detect |
| Middle | Cr | mg/kg dw | 1 / 1 | 100 | 9.647 | 9.647 | N/A | N/A | 9.647 | 9.647 | N/A | N/A | -- | -- | 9.647 | Maximum Detect |
| Lower | Cr | mg/kg dw | 1 / 1 | 100 | 13.41 | 13.41 | N/A | N/A | 13.41 | 13.41 | N/A | N/A | -- | -- | 13.41 | Maximum Detect |
| **Frogs** | | | | | | | | | | | | | | | | |
| Upper | Cr | mg/kg dw | 2 / 2 | 100 | 7.143 | 18.06 | N/A | N/A | 12.6 | 12.6 | 59.54 | 7.716 | -- | -- | 18.06 | Maximum Detect |
| **Snakes** | | | | | | | | | | | | | | | | |
| Lower | Cr | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 18.02 | 18.02 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Predator Fish** | | | | | | | | | | | | | | | | |
| Middle | Cr | mg/kg dw | 1 / 1 | 100 | 0.514 | 0.514 | N/A | N/A | 0.514 | 0.514 | N/A | N/A | -- | -- | 0.514 | Maximum Detect |
| Lower | Cr | mg/kg dw | 2 / 3 | 67 | 1.226 | 1.9 | 16.53 | 16.53 | 1.563 | 1.563 | 0.227 | 0.476 | -- | -- | 1.9 | Maximum Detect |
| **Forage Fish** | | | | | | | | | | | | | | | | |
| Upper | Cr | mg/kg dw | 4 / 4 | 100 | 1.328 | 11.11 | N/A | N/A | 5.229 | 4.239 | 17.54 | 4.188 | -- | -- | 11.11 | Maximum Detect |
| Lower | Cr | mg/kg dw | 2 / 2 | 100 | 5.385 | 6.439 | N/A | N/A | 5.912 | 5.912 | 0.556 | 0.746 | -- | -- | 6.439 | Maximum Detect |
| **Bottom Fish** | | | | | | | | | | | | | | | | |
| Upper | Cr | mg/kg dw | 1 / 1 | 100 | 0.656 | 0.656 | N/A | N/A | 0.656 | 0.656 | N/A | N/A | -- | -- | 0.656 | Maximum Detect |
| Middle | Cr | mg/kg dw | 1 / 1 | 100 | 0.257 | 0.257 | N/A | N/A | 0.257 | 0.257 | N/A | N/A | -- | -- | 0.257 | Maximum Detect |
| Lower | Cr | mg/kg dw | 1 / 2 | 50 | 0.721 | 0.721 | 1.132 | 1.132 | 0.721 | 0.721 | N/A | N/A | -- | -- | 0.721 | Maximum Detect |
| **All Fish** | | | | | | | | | | | | | | | | |
| Upper | Cr | mg/kg dw | 5 / 5 | 100 | 0.656 | 11.11 | N/A | N/A | 4.315 | 3.591 | 17.34 | 4.164 | -- | -- | 11.11 | Maximum Detect |
| Middle | Cr | mg/kg dw | 2 / 2 | 100 | 0.257 | 0.514 | N/A | N/A | 0.385 | 0.385 | 0.033 | 0.182 | -- | -- | 0.514 | Maximum Detect |
| Lower | Cr | mg/kg dw | 5 / 7 | 71 | 0.721 | 6.439 | 1.132 | 16.53 | 3.134 | 1.9 | 6.744 | 2.597 | -- | -- | 6.439 | Maximum Detect |
| **Lead** | | | | | | | | | | | | | | | | |
| **Aquatic Plants** | | | | | | | | | | | | | | | | |
| Upper | Pb | mg/kg dw | 1 / 1 | 100 | 7.054 | 7.054 | N/A | N/A | 7.054 | 7.054 | N/A | N/A | -- | -- | 7.054 | Maximum Detect |
| Middle | Pb | mg/kg dw | 1 / 1 | 100 | 3.958 | 3.958 | N/A | N/A | 3.958 | 3.958 | N/A | N/A | -- | -- | 3.958 | Maximum Detect |
| Lower | Pb | mg/kg dw | 1 / 1 | 100 | 1.783 | 1.783 | N/A | N/A | 1.783 | 1.783 | N/A | N/A | -- | -- | 1.783 | Maximum Detect |
| **Emergent Insects** | | | | | | | | | | | | | | | | |
| Upper | Pb | mg/kg dw | 1 / 1 | 100 | 0.286 | 0.286 | N/A | N/A | 0.286 | 0.286 | N/A | N/A | -- | -- | 0.286 | Maximum Detect |
| Middle | Pb | mg/kg dw | 1 / 1 | 100 | 0.675 | 0.675 | N/A | N/A | 0.675 | 0.675 | N/A | N/A | -- | -- | 0.675 | Maximum Detect |
| Lower | Pb | mg/kg dw | 1 / 1 | 100 | 0.445 | 0.445 | N/A | N/A | 0.445 | 0.445 | N/A | N/A | -- | -- | 0.445 | Maximum Detect |

**Table E2-9**
**Summary Statistics by Assessment Area - Aquatic Tissue**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Benthic Invertebrates (Odonata)** | | | | | | | | | | | | | | | | |
| Upper | Pb | mg/kg dw | 1 / 1 | 100 | 6 | 6 | N/A | N/A | 6 | 6 | N/A | N/A | -- | -- | 6 | Maximum Detect |
| Middle | Pb | mg/kg dw | 1 / 1 | 100 | 5 | 5 | N/A | N/A | 5 | 5 | N/A | N/A | -- | -- | 5 | Maximum Detect |
| Lower | Pb | mg/kg dw | 1 / 1 | 100 | 3.608 | 3.608 | N/A | N/A | 3.608 | 3.608 | N/A | N/A | -- | -- | 3.608 | Maximum Detect |
| **Crayfish** | | | | | | | | | | | | | | | | |
| Upper | Pb | mg/kg dw | 2 / 2 | 100 | 1.8 | 3.285 | N/A | N/A | 2.542 | 2.542 | 1.102 | 1.05 | -- | -- | 3.285 | Maximum Detect |
| Lower | Pb | mg/kg dw | 1 / 1 | 100 | 0.942 | 0.942 | N/A | N/A | 0.942 | 0.942 | N/A | N/A | -- | -- | 0.942 | Maximum Detect |
| **Mollusc** | | | | | | | | | | | | | | | | |
| Upper | Pb | mg/kg dw | 1 / 1 | 100 | 3.537 | 3.537 | N/A | N/A | 3.537 | 3.537 | N/A | N/A | -- | -- | 3.537 | Maximum Detect |
| Middle | Pb | mg/kg dw | 1 / 1 | 100 | 4.471 | 4.471 | N/A | N/A | 4.471 | 4.471 | N/A | N/A | -- | -- | 4.471 | Maximum Detect |
| Lower | Pb | mg/kg dw | 1 / 1 | 100 | 3.659 | 3.659 | N/A | N/A | 3.659 | 3.659 | N/A | N/A | -- | -- | 3.659 | Maximum Detect |
| **Frogs** | | | | | | | | | | | | | | | | |
| Upper | Pb | mg/kg dw | 2 / 2 | 100 | 2.647 | 4.12 | N/A | N/A | 3.384 | 3.384 | 1.085 | 1.042 | -- | -- | 4.12 | Maximum Detect |
| **Snakes** | | | | | | | | | | | | | | | | |
| Lower | Pb | mg/kg dw | 1 / 1 | 100 | 0.766 | 0.766 | N/A | N/A | 0.766 | 0.766 | N/A | N/A | -- | -- | 0.766 | Maximum Detect |
| **Predator Fish** | | | | | | | | | | | | | | | | |
| Middle | Pb | mg/kg dw | 1 / 1 | 100 | 0.0959 | 0.0959 | N/A | N/A | 0.0959 | 0.0959 | N/A | N/A | -- | -- | 0.0959 | Maximum Detect |
| Lower | Pb | mg/kg dw | 1 / 3 | 33 | 0.214 | 0.214 | 0.609 | 8.264 | 0.214 | 0.214 | N/A | N/A | -- | -- | 0.214 | Maximum Detect |
| **Forage Fish** | | | | | | | | | | | | | | | | |
| Upper | Pb | mg/kg dw | 2 / 4 | 50 | 0.195 | 2.069 | 7.519 | 7.722 | 1.132 | 1.132 | 1.756 | 1.325 | -- | -- | 2.069 | Maximum Detect |
| Lower | Pb | mg/kg dw | 2 / 2 | 100 | 0.155 | 0.177 | N/A | N/A | 0.166 | 0.166 | 0.00023371 | 0.0153 | -- | -- | 0.177 | Maximum Detect |
| **Bottom Fish** | | | | | | | | | | | | | | | | |
| Upper | Pb | mg/kg dw | 1 / 1 | 100 | 0.375 | 0.375 | N/A | N/A | 0.375 | 0.375 | N/A | N/A | -- | -- | 0.375 | Maximum Detect |
| Middle | Pb | mg/kg dw | 1 / 1 | 100 | 0.265 | 0.265 | N/A | N/A | 0.265 | 0.265 | N/A | N/A | -- | -- | 0.265 | Maximum Detect |
| Lower | Pb | mg/kg dw | 1 / 2 | 50 | 0.216 | 0.216 | 0.642 | 0.642 | 0.216 | 0.216 | N/A | N/A | -- | -- | 0.216 | Maximum Detect |
| **All Fish** | | | | | | | | | | | | | | | | |
| Upper | Pb | mg/kg dw | 3 / 5 | 60 | 0.195 | 2.069 | 7.519 | 7.722 | 0.88 | 0.375 | 1.069 | 1.034 | -- | -- | 2.069 | Maximum Detect |
| Middle | Pb | mg/kg dw | 2 / 2 | 100 | 0.0959 | 0.265 | N/A | N/A | 0.18 | 0.18 | 0.0142 | 0.119 | -- | -- | 0.265 | Maximum Detect |
| Lower | Pb | mg/kg dw | 4 / 7 | 57 | 0.155 | 0.216 | 0.609 | 8.264 | 0.191 | 0.195 | 0.00087635 | 0.0296 | -- | -- | 0.216 | Maximum Detect |
| **Vanadium** | | | | | | | | | | | | | | | | |
| **Aquatic Plants** | | | | | | | | | | | | | | | | |
| Upper | V | mg/kg dw | 1 / 1 | 100 | 1.494 | 1.494 | N/A | N/A | 1.494 | 1.494 | N/A | N/A | -- | -- | 1.494 | Maximum Detect |
| Middle | V | mg/kg dw | 1 / 1 | 100 | 1.944 | 1.944 | N/A | N/A | 1.944 | 1.944 | N/A | N/A | -- | -- | 1.944 | Maximum Detect |
| Lower | V | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 2.293 | 2.293 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Emergent Insects** | | | | | | | | | | | | | | | | |
| Upper | V | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 13.61 | 13.61 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Middle | V | mg/kg dw | 1 / 1 | 100 | 0.583 | 0.583 | N/A | N/A | 0.583 | 0.583 | N/A | N/A | -- | -- | 0.583 | Maximum Detect |
| Lower | V | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 0.0582 | 0.0582 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Benthic Invertebrates (Odonata)** | | | | | | | | | | | | | | | | |
| Upper | V | mg/kg dw | 1 / 1 | 100 | 2.556 | 2.556 | N/A | N/A | 2.556 | 2.556 | N/A | N/A | -- | -- | 2.556 | Maximum Detect |
| Middle | V | mg/kg dw | 1 / 1 | 100 | 2.467 | 2.467 | N/A | N/A | 2.467 | 2.467 | N/A | N/A | -- | -- | 2.467 | Maximum Detect |
| Lower | V | mg/kg dw | 1 / 1 | 100 | 2.215 | 2.215 | N/A | N/A | 2.215 | 2.215 | N/A | N/A | -- | -- | 2.215 | Maximum Detect |
| **Crayfish** | | | | | | | | | | | | | | | | |
| Upper | V | mg/kg dw | 1 / 2 | 50 | 1.387 | 1.387 | 16 | 16 | 1.387 | 1.387 | N/A | N/A | -- | -- | 1.387 | Maximum Detect |
| Lower | V | mg/kg dw | 0 / 1 | 0 | N/A | N/A | 14.49 | 14.49 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Table E2-9**
**Summary Statistics by Assessment Area - Aquatic Tissue**
**Upper, Middle, and Lower Assessment Areas**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Mollusc** | | | | | | | | | | | | | | | | | | |
| Upper | V | mg/kg dw | 1 | / | 1 | 100 | 1.829 | 1.829 | N/A | N/A | 1.829 | 1.829 | N/A | N/A | -- | -- | 1.829 | Maximum Detect |
| Middle | V | mg/kg dw | 1 | / | 1 | 100 | 1.882 | 1.882 | N/A | N/A | 1.882 | 1.882 | N/A | N/A | -- | -- | 1.882 | Maximum Detect |
| Lower | V | mg/kg dw | 1 | / | 1 | 100 | 1.463 | 1.463 | N/A | N/A | 1.463 | 1.463 | N/A | N/A | -- | -- | 1.463 | Maximum Detect |
| **Frogs** | | | | | | | | | | | | | | | | | | |
| Upper | V | mg/kg dw | 2 | / | 2 | 100 | 1.008 | 1.62 | N/A | N/A | 1.314 | 1.314 | 0.187 | 0.433 | -- | -- | 1.62 | Maximum Detect |
| **Snakes** | | | | | | | | | | | | | | | | | | |
| Lower | V | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 18.02 | 18.02 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Predator Fish** | | | | | | | | | | | | | | | | | | |
| Middle | V | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 0.0411 | 0.0411 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | V | mg/kg dw | 1 | / | 3 | 33 | 0.148 | 0.148 | 1.075 | 16.53 | 0.148 | 0.148 | N/A | N/A | -- | -- | 0.148 | Maximum Detect |
| **Forage Fish** | | | | | | | | | | | | | | | | | | |
| Upper | V | mg/kg dw | 1 | / | 4 | 25 | 1.188 | 1.188 | 1.245 | 15.44 | 1.188 | 1.188 | N/A | N/A | -- | -- | 1.188 | Maximum Detect |
| Lower | V | mg/kg dw | 0 | / | 2 | 0 | N/A | N/A | 15.15 | 15.38 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Bottom Fish** | | | | | | | | | | | | | | | | | | |
| Upper | V | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 0.938 | 0.938 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Middle | V | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 0.0294 | 0.0294 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | V | mg/kg dw | 1 | / | 2 | 50 | 0.258 | 0.258 | 1.132 | 1.132 | 0.258 | 0.258 | N/A | N/A | -- | -- | 0.258 | Maximum Detect |
| **All Fish** | | | | | | | | | | | | | | | | | | |
| Upper | V | mg/kg dw | 1 | / | 5 | 20 | 1.188 | 1.188 | 0.938 | 15.44 | 1.188 | 1.188 | N/A | N/A | -- | -- | 1.188 | Maximum Detect |
| Middle | V | mg/kg dw | 0 | / | 2 | 0 | N/A | N/A | 0.0294 | 0.0411 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Lower | V | mg/kg dw | 2 | / | 7 | 29 | 0.148 | 0.258 | 1.075 | 16.53 | 0.203 | 0.203 | 0.0061 | 0.0781 | -- | -- | 0.258 | Maximum Detect |

**Notes:**
"--" = not applicable
% = percent
EPC = exposure point concentration
mg/kg dw= milligrams per kilograms dry weight
N/A = not available
PCB = polychlorinated biphenyl
TOC = total organic carbon
UCL = upper confidence limit

**Table E2-10**
**Summary Statistics - Sitewide Sediment and Reference Sediment**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Sitewide** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Barium | mg/kg | 28 | / | 28 | 100 | 14.3 | 251 | N/A | N/A | 82.98 | 66.25 | 3840 | 61.96 | 108.5 | 95% Adjusted Gamma UCL | 108.5 | UCL |
| Cobalt | mg/kg | 28 | / | 28 | 100 | 2.3 | 34.3 | N/A | N/A | 8.091 | 6.75 | 45.64 | 6.756 | 10.35 | 95% Adjusted Gamma UCL | 10.35 | UCL |
| Chromium | mg/kg | 28 | / | 28 | 100 | 6 | 54.7 | N/A | N/A | 19.26 | 16.15 | 180.4 | 13.43 | 24.35 | 95% Adjusted Gamma UCL | 24.35 | UCL |
| Lead | mg/kg | 27 | / | 28 | 96 | 4.3 | 110 | 3.8 | 3.8 | 23.27 | 12.95 | 586.5 | 24.22 | 31.48 | 95% KM H-UCL | 31.48 | UCL |
| Mercury | mg/kg | 90 | / | 91 | 99 | 0.03 | 46.6 | 0.011 | 0.011 | 1.255 | 0.615 | 23.96 | 4.895 | 3.466 | 95% KM (Chebyshev) UCL | 3.466 | UCL |
| Vanadium | mg/kg | 28 | / | 28 | 100 | 3.15 | 53 | N/A | N/A | 16.01 | 11.25 | 191.5 | 13.84 | 21.2 | 95% Adjusted Gamma UCL | 21.2 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 220 | / | 268 | 82 | 0.021 | 95 | 0.038 | 0.17 | 2.17 | 0.62 | 59.74 | 7.729 | 2.254 | 95% KM H-UCL | 2.254 | UCL |
| Aroclor-1016 | mg/kg | 0 | / | 268 | 0 | N/A | N/A | 0.035 | 8.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 268 | 0 | N/A | N/A | 0.035 | 8.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 14 | / | 268 | 5 | 0.04 | 75 | 0.035 | 1.3 | 12.04 | 2.1 | 435.4 | 20.87 | 1.726 | 95% KM Approximate Gamma UCL | 1.726 | UCL |
| Aroclor-1242 | mg/kg | 116 | / | 268 | 43 | 0.024 | 12 | 0.038 | 8.5 | 0.437 | 0.2 | 1.322 | 1.15 | 0.175 | 95% KM H-UCL | 0.175 | UCL |
| Aroclor-1248 | mg/kg | 43 | / | 268 | 16 | 0.017 | 3.2 | 0.035 | 8.5 | 0.369 | 0.2 | 0.329 | 0.574 | 0.12 | 95% KM Approximate Gamma UCL | 0.12 | UCL |
| Aroclor-1254 | mg/kg | 204 | / | 268 | 76 | 0.026 | 16 | 0.035 | 8.5 | 0.592 | 0.28 | 1.73 | 1.315 | 0.534 | 95% KM H-UCL | 0.534 | UCL |
| Aroclor-1260 | mg/kg | 211 | / | 268 | 79 | 0.021 | 20 | 0.035 | 5.5 | 0.568 | 0.22 | 3.127 | 1.768 | 0.442 | 95% KM H-UCL | 0.442 | UCL |
| Aroclor-1262 | mg/kg | 0 | / | 86 | 0 | N/A | N/A | 0.035 | 5.5 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 10 | / | 86 | 12 | 0.05 | 0.48 | 0.035 | 5.5 | 0.158 | 0.125 | 0.0167 | 0.129 | 0.0644 | 95% KM (t) UCL | 0.0644 | UCL |
| BZ#105 | mg/kg | 8 | / | 12 | 67 | 0.0086 | 0.047 | 0.0016 | 0.0058 | 0.03 | 0.0315 | 0.00023842 | 0.0154 | 0.0304 | 95% KM (t) UCL | 0.0304 | UCL |
| BZ#114 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0016 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 10 | / | 12 | 83 | 0.0022 | 0.098 | 0.0016 | 0.0021 | 0.0496 | 0.0388 | 0.00133 | 0.0364 | 0.0614 | 95% KM (t) UCL | 0.0614 | UCL |
| BZ#123 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0016 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 2 | / | 12 | 17 | 0.0064 | 0.012 | 0.0016 | 0.0063 | 0.0092 | 0.0092 | 0.00001568 | 0.00396 | -- | -- | 0.012 | Maximum Detect |
| BZ#153 | mg/kg | 10 | / | 12 | 83 | 0.0044 | 0.14 | 0.0032 | 0.0042 | 0.0755 | 0.0773 | 0.00229 | 0.0479 | 0.0905 | 95% KM (t) UCL | 0.0905 | UCL |
| BZ#156 | mg/kg | 8 | / | 12 | 67 | 0.0035 | 0.017 | 0.0016 | 0.0058 | 0.00941 | 0.0099 | 0.000025578 | 0.00506 | 0.00984 | 95% KM (t) UCL | 0.00984 | UCL |
| BZ#157 | mg/kg | 1 | / | 12 | 8 | 0.0021 | 0.0021 | 0.0016 | 0.0063 | 0.0021 | 0.0021 | N/A | N/A | -- | -- | 0.0021 | Maximum Detect |
| BZ#167 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0032 | 0.013 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0016 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0016 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0016 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 12 | 0 | N/A | N/A | 0.0032 | 0.013 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 10 | / | 10 | 100 | 2.47 | 118 | N/A | N/A | 35.08 | 17.25 | 1641 | 40.51 | 87.89 | 95% Adjusted Gamma UCL | 87.89 | UCL |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 8 | / | 10 | 80 | 1.53 | 102 | 0.55 | 3.5 | 24.95 | 12.73 | 1113 | 33.37 | 38.48 | 95% KM (t) UCL | 38.48 | UCL |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 9 | / | 10 | 90 | 0.44 | 43.8 | 0.17 | 0.17 | 7.155 | 3.05 | 193.5 | 13.91 | 37.24 | 95% Gamma Adjusted KM-UCL | 37.24 | UCL |
| 1,2,3,4,7,8-hxcdd | pg/g | 7 | / | 10 | 70 | 0.127 | 1.63 | 0.14 | 0.92 | 0.67 | 0.388 | 0.443 | 0.666 | 0.876 | 95% KM (t) UCL | 0.876 | UCL |
| 1,2,3,4,7,8-hxcdf | pg/g | 9 | / | 10 | 90 | 0.65 | 114 | 0.11 | 0.11 | 19.6 | 9.21 | 1296 | 36 | 92.92 | 95% Gamma Adjusted KM-UCL | 92.92 | UCL |
| 1,2,3,6,7,8-hxcdd | pg/g | 5 | / | 10 | 50 | 0.13 | 3.7 | 0.247 | 1.05 | 2.188 | 3.08 | 2.749 | 1.658 | 2.128 | 95% KM (t) UCL | 2.128 | UCL |
| 1,2,3,6,7,8-hxcdf | pg/g | 7 | / | 10 | 70 | 0.59 | 28.2 | 0.11 | 0.753 | 6.902 | 2.92 | 93.27 | 9.658 | 19.33 | 95% KM Bootstrap t UCL | 19.33 | UCL |
| 1,2,3,7,8,9-hxcdd | pg/g | 9 | / | 10 | 90 | 0.33 | 5.25 | 0.12 | 0.12 | 1.771 | 1.02 | 3.187 | 1.785 | 3.606 | 95% KM Bootstrap t UCL | 3.606 | UCL |
| 1,2,3,7,8,9-hxcdf | pg/g | 1 | / | 10 | 10 | 3.91 | 3.91 | 0.114 | 0.51 | 3.91 | 3.91 | N/A | N/A | -- | -- | 3.91 | Maximum Detect |
| 1,2,3,7,8-pecdd | pg/g | 5 | / | 10 | 50 | 0.209 | 1.21 | 0.124 | 0.54 | 0.675 | 0.482 | 0.196 | 0.443 | 0.665 | 95% KM (t) UCL | 0.665 | UCL |
| 1,2,3,7,8-pecdf | pg/g | 9 | / | 10 | 90 | 0.32 | 19.7 | 0.17 | 0.17 | 4.264 | 1.93 | 37.92 | 6.158 | 14.03 | 95% Gamma Adjusted KM-UCL | 14.03 | UCL |
| 2,3,4,6,7,8-hxcdf | pg/g | 6 | / | 10 | 60 | 0.785 | 9.49 | 0.13 | 0.551 | 3.977 | 2.998 | 10.42 | 3.227 | 4.317 | 95% KM (t) UCL | 4.317 | UCL |
| 2,3,4,7,8-pecdf | pg/g | 8 | / | 10 | 80 | 0.28 | 19.6 | 0.17 | 0.877 | 7.741 | 5.558 | 44.76 | 6.69 | 10.17 | 95% KM (t) UCL | 10.17 | UCL |
| 2,3,7,8-tcdd | pg/g | 2 | / | 10 | 20 | 0.147 | 0.5 | 0.097 | 1.1 | 0.324 | 0.324 | 0.0623 | 0.25 | -- | -- | 0.5 | Maximum Detect |
| 2,3,7,8-tcdf | pg/g | 9 | / | 10 | 90 | 0.63 | 64.2 | 0.15 | 0.15 | 18.71 | 9.82 | 426 | 20.64 | 36.33 | 95% KM Bootstrap t UCL | 36.33 | UCL |
| octa cdd | pg/g | 10 | / | 10 | 100 | 45.3 | 2100 | N/A | N/A | 687.9 | 339 | 597337 | 772.9 | 1658 | 95% Adjusted Gamma UCL | 1658 | UCL |
| octa cdf | pg/g | 10 | / | 10 | 100 | 1.2 | 299 | N/A | N/A | 47.24 | 11.93 | 8251 | 90.84 | 162 | 95% Adjusted Gamma UCL | 162 | UCL |

**Table E2-10**
**Summary Statistics - Sitewide Sediment and Reference Sediment**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 7 | / | 7 | 100 | 22 | 50 | N/A | N/A | 33 | 27 | 132.7 | 11.52 | -- | -- | 50 | Maximum Detect |
| Solids, percent | % | 86 | / | 86 | 100 | 43.5 | 90.4 | N/A | N/A | 70.22 | 72.3 | 120.6 | 10.98 | 72.19 | 95% Student's-t UCL | 72.19 | UCL |
| TOC by lloyd kahn | mg/kg | 209 | / | 274 | 76 | 680 | 60000 | 500 | 1320 | 13974 | 11000 | 142800000 | 11951 | 13915 | 95% KM (Chebyshev) UCL | 13915 | UCL |
| **Reference Area** | | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Barium | mg/kg | 5 | / | 5 | 100 | 24.8 | 110 | N/A | N/A | 70.64 | 84.7 | 1258 | 35.47 | -- | -- | 110 | Maximum Detect |
| Cobalt | mg/kg | 5 | / | 5 | 100 | 3.9 | 14.9 | N/A | N/A | 8.42 | 8.1 | 16.37 | 4.046 | -- | -- | 14.9 | Maximum Detect |
| Chromium | mg/kg | 5 | / | 5 | 100 | 4.5 | 30.9 | N/A | N/A | 15.7 | 8.3 | 146.6 | 12.11 | -- | -- | 30.9 | Maximum Detect |
| Lead | mg/kg | 5 | / | 5 | 100 | 6.2 | 12.6 | N/A | N/A | 10.2 | 11.6 | 8.58 | 2.929 | -- | -- | 12.6 | Maximum Detect |
| Mercury | mg/kg | 9 | / | 21 | 43 | 0.01 | 0.11 | 0.012 | 0.027 | 0.0367 | 0.032 | 0.00086975 | 0.0295 | 0.0299 | 95% GROS Adjusted Gamma UCL | 0.0299 | UCL |
| Vanadium | mg/kg | 5 | / | 5 | 100 | 6.3 | 34.3 | N/A | N/A | 16.06 | 11.4 | 119.2 | 10.92 | -- | -- | 34.3 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | |
| Total PCBs | mg/kg | 0 | / | 21 | 0 | N/A | N/A | 0.034 | 0.11 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1016 | mg/kg | 0 | / | 21 | 0 | N/A | N/A | 0.034 | 0.11 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/kg | 0 | / | 21 | 0 | N/A | N/A | 0.034 | 0.11 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/kg | 0 | / | 21 | 0 | N/A | N/A | 0.034 | 0.11 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/kg | 0 | / | 21 | 0 | N/A | N/A | 0.034 | 0.11 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1248 | mg/kg | 0 | / | 21 | 0 | N/A | N/A | 0.034 | 0.11 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/kg | 0 | / | 21 | 0 | N/A | N/A | 0.034 | 0.11 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1260 | mg/kg | 0 | / | 21 | 0 | N/A | N/A | 0.034 | 0.11 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1262 | mg/kg | 0 | / | 21 | 0 | N/A | N/A | 0.034 | 0.11 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/kg | 0 | / | 21 | 0 | N/A | N/A | 0.034 | 0.11 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#105 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#114 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#123 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.004 | 0.0046 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#156 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#157 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.004 | 0.0046 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0 | / | 3 | 0 | N/A | N/A | 0.004 | 0.0046 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | pg/g | 3 | / | 3 | 100 | 7.74 | 22.9 | N/A | N/A | 14.11 | 11.7 | 61.82 | 7.863 | -- | -- | 22.9 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | pg/g | 2 | / | 3 | 67 | 0.385 | 4.16 | 0.632 | 0.632 | 2.273 | 2.273 | 7.125 | 2.669 | -- | -- | 4.16 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | pg/g | 1 | / | 3 | 33 | 0.452 | 0.452 | 0.216 | 0.226 | 0.452 | 0.452 | N/A | N/A | -- | -- | 0.452 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | pg/g | 1 | / | 3 | 33 | 0.233 | 0.233 | 0.209 | 0.259 | 0.233 | 0.233 | N/A | N/A | -- | -- | 0.233 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | pg/g | 0 | / | 3 | 0 | N/A | N/A | 0.175 | 0.312 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,6,7,8-hxcdd | pg/g | 2 | / | 3 | 67 | 0.243 | 0.515 | 0.268 | 0.268 | 0.379 | 0.379 | 0.037 | 0.192 | -- | -- | 0.515 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | pg/g | 0 | / | 3 | 0 | N/A | N/A | 0.267 | 0.389 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8,9-hxcdd | pg/g | 1 | / | 3 | 33 | 0.557 | 0.557 | 0.283 | 0.693 | 0.557 | 0.557 | N/A | N/A | -- | -- | 0.557 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | pg/g | 0 | / | 3 | 0 | N/A | N/A | 0.177 | 0.316 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | pg/g | 0 | / | 3 | 0 | N/A | N/A | 0.222 | 0.416 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | pg/g | 0 | / | 3 | 0 | N/A | N/A | 0.207 | 0.373 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,4,6,7,8-hxcdf | pg/g | 0 | / | 3 | 0 | N/A | N/A | 0.176 | 0.315 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,4,7,8-pecdf | pg/g | 0 | / | 3 | 0 | N/A | N/A | 0.195 | 0.351 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Table E2-10**
**Summary Statistics - Sitewide Sediment and Reference Sediment**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| 2,3,7,8-tcdd | pg/g | 0 | / | 3 | 0 | N/A | N/A | 0.18 | 0.31 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | pg/g | 1 | / | 3 | 33 | 0.286 | 0.286 | 0.209 | 0.254 | 0.286 | 0.286 | N/A | N/A | -- | -- | 0.286 | Maximum Detect |
| octa cdd | pg/g | 3 | / | 3 | 100 | 341 | 991 | N/A | N/A | 593.3 | 448 | 121466 | 348.5 | -- | -- | 991 | Maximum Detect |
| octa cdf | pg/g | 3 | / | 3 | 100 | 0.78 | 20.1 | N/A | N/A | 7.367 | 1.22 | 121.7 | 11.03 | -- | -- | 20.1 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 3 | / | 3 | 100 | 20 | 33 | N/A | N/A | 24.33 | 20 | 56.33 | 7.506 | -- | -- | 33 | Maximum Detect |
| Solids, percent | % | 21 | / | 21 | 100 | 28.7 | 93.6 | N/A | N/A | 64.17 | 67.5 | 344.3 | 18.56 | 71.15 | 95% Student's-t UCL | 71.15 | UCL |
| TOC by lloyd kahn | mg/kg | 19 | / | 21 | 90 | 1560 | 128000 | 1150 | 1220 | 20386 | 6830 | 883400000 | 29721 | 46006 | 95% KM (Chebyshev) UCL | 46006 | UCL |

**Notes:**
"--" = not applicable
% = percent
EPC = exposure point concentration
mg/kg = milligrams per kilograms
N/A = not available
pg/g = picograms per gram
PCB = polychlorinated biphenyl
TOC = total organic carbon
UCL = upper confidence limit

**Table E2-11**
**Summary Statistics - Sitewide Aquatic Tissue and Reference Tissue**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Depth (ft bgs) | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Sitewide** | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | |
| Barium | mg/L | 0-0.5 | 11 / 11 | 100 | 0.0241 | 0.201 | N/A | N/A | 0.0503 | 0.0302 | 0.0029 | 0.0538 | 0.121 | 95% Chebyshev (Mean, Sd) UCL | 0.121 | UCL |
| Cobalt | mg/L | 0-0.5 | 3 / 11 | 27 | 0.0022 | 0.0122 | 0.00063 | 0.01 | 0.00647 | 0.005 | 0.000026613 | 0.00516 | -- | -- | 0.0122 | Maximum Detect |
| Chromium | mg/L | 0-0.5 | 10 / 11 | 91 | 0.000575 | 0.0329 | 0.004 | 0.004 | 0.0057 | 0.00185 | 0.00010056 | 0.01 | 0.018 | 95% KM (Chebyshev) UCL | 0.018 | UCL |
| Lead | mg/L | 0-0.5 | 11 / 11 | 100 | 0.00034 | 0.0964 | N/A | N/A | 0.0129 | 0.00084 | 0.00083377 | 0.0289 | 0.0673 | 97.5% Chebyshev (Mean, Sd) UCL | 0.0673 | UCL |
| Mercury | mg/L | 0-0.5 | 3 / 44 | 7 | 0.000069 | 0.00043 | 0.000018 | 0.000068 | 0.00021633 | 0.00015 | 3.588E-08 | 0.00018942 | -- | -- | 0.00043 | Maximum Detect |
| Vanadium | mg/L | 0-0.5 | 11 / 11 | 100 | 0.00039 | 0.0339 | N/A | N/A | 0.00612 | 0.0013 | 0.00010603 | 0.0103 | 0.0171 | 95% Adjusted Gamma UCL | 0.0171 | UCL |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | |
| Total Homolog PCBs | mg/L | 0-0.5 | 39 / 43 | 91 | 0.000016 | 0.000498 | 0.0000806 | 0.00016 | 0.000097663 | 0.0000687 | 9.5316E-09 | 0.00009763 | 0.0001567 | 95% KM (Chebyshev) UCL | 0.0001567 | UCL |
| Aroclor-1016 | mg/L | 0-0.5 | 0 / 6 | 0 | N/A | N/A | 0.000024 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1221 | mg/L | 0-0.5 | 0 / 6 | 0 | N/A | N/A | 0.000024 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1232 | mg/L | 0-0.5 | 0 / 6 | 0 | N/A | N/A | 0.000024 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1242 | mg/L | 0-0.5 | 0 / 6 | 0 | N/A | N/A | 0.000024 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1248 | mg/L | 0-0.5 | 0 / 6 | 0 | N/A | N/A | 0.000024 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1254 | mg/L | 0-0.5 | 0 / 6 | 0 | N/A | N/A | 0.000024 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1260 | mg/L | 0-0.5 | 0 / 6 | 0 | N/A | N/A | 0.000024 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1262 | mg/L | 0-0.5 | 0 / 6 | 0 | N/A | N/A | 0.000024 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Aroclor-1268 | mg/L | 0-0.5 | 0 / 6 | 0 | N/A | N/A | 0.000024 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#105 | mg/L | 0-0.5 | 0 / 11 | 0 | N/A | N/A | 0.0000019 | 0.000022 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#114 | mg/L | 0-0.5 | 0 / 11 | 0 | N/A | N/A | 0.0000019 | 0.00004 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/L | 0-0.5 | 1 / 11 | 9 | 0.000028 | 0.000028 | 0.0000019 | 0.000022 | 0.000028 | 0.000028 | N/A | N/A | -- | -- | 0.000028 | Maximum Detect |
| BZ#123 | mg/L | 0-0.5 | 0 / 11 | 0 | N/A | N/A | 0.0000019 | 0.00004 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/L | 0-0.5 | 0 / 11 | 0 | N/A | N/A | 0.0000019 | 0.000022 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/L | 0-0.5 | 0 / 11 | 0 | N/A | N/A | 0.0000038 | 0.000043 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#156 | mg/L | 0-0.5 | 0 / 11 | 0 | N/A | N/A | 0.0000019 | 0.000022 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#157 | mg/L | 0-0.5 | 0 / 11 | 0 | N/A | N/A | 0.0000019 | 0.00004 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/L | 0-0.5 | 0 / 11 | 0 | N/A | N/A | 0.0000038 | 0.000043 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/L | 0-0.5 | 0 / 11 | 0 | N/A | N/A | 0.0000019 | 0.000022 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/L | 0-0.5 | 0 / 11 | 0 | N/A | N/A | 0.0000019 | 0.000022 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/L | 0-0.5 | 0 / 11 | 0 | N/A | N/A | 0.0000019 | 0.00004 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/L | 0-0.5 | 0 / 11 | 0 | N/A | N/A | 0.0000038 | 0.00006 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | ng/L | 0-0.5 | 7 / 11 | 64 | 0.00129 | 0.173 | 0.0011 | 0.00274 | 0.0458 | 0.0181 | 0.00375 | 0.0613 | 0.0591 | 95% KM (t) UCL | 0.0591 | UCL |
| 1,2,3,4,6,7,8-hpcdf | ng/L | 0-0.5 | 1 / 11 | 9 | 0.0279 | 0.0279 | 0.00042 | 0.067 | 0.0279 | 0.0279 | N/A | N/A | -- | -- | 0.0279 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | ng/L | 0-0.5 | 3 / 11 | 27 | 0.00186 | 0.0062 | 0.00055 | 0.00098 | 0.00346 | 0.00232 | 5.6836E-06 | 0.00238 | -- | -- | 0.0062 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | ng/L | 0-0.5 | 3 / 11 | 27 | 0.0007 | 0.004 | 0.00056 | 0.00084 | 0.00219 | 0.00186 | 2.8025E-06 | 0.00167 | -- | -- | 0.004 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | ng/L | 0-0.5 | 5 / 11 | 45 | 0.00063 | 0.0181 | 0.00047 | 0.00099 | 0.00652 | 0.00537 | 0.000049565 | 0.00704 | 0.0064 | 95% KM (t) UCL | 0.0064 | UCL |
| 1,2,3,6,7,8-hxcdd | ng/L | 0-0.5 | 5 / 11 | 45 | 0.00053 | 0.00815 | 0.00046 | 0.00076 | 0.00306 | 0.00166 | 0.000010226 | 0.0032 | 0.00307 | 95% KM (t) UCL | 0.00307 | UCL |
| 1,2,3,6,7,8-hxcdf | ng/L | 0-0.5 | 5 / 11 | 45 | 0.00163 | 0.00975 | 0.00047 | 0.00065 | 0.00504 | 0.00279 | 0.000014063 | 0.00375 | 0.00451 | 95% KM (t) UCL | 0.00451 | UCL |
| 1,2,3,7,8,9-hxcdd | ng/L | 0-0.5 | 4 / 11 | 36 | 0.00095 | 0.0112 | 0.00048 | 0.00075 | 0.00453 | 0.00299 | 0.000022677 | 0.00476 | -- | -- | 0.0112 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | ng/L | 0-0.5 | 0 / 11 | 0 | N/A | N/A | 0.00057 | 0.00079 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | ng/L | 0-0.5 | 2 / 11 | 18 | 0.00221 | 0.00258 | 0.0005 | 0.00058 | 0.0024 | 0.0024 | 6.845E-08 | 0.00026163 | -- | -- | 0.00258 | Maximum Detect |
| 1,2,3,7,8-pecdf | ng/L | 0-0.5 | 4 / 11 | 36 | 0.00159 | 0.0048 | 0.00048 | 0.0012 | 0.0029 | 0.0026 | 2.3996E-06 | 0.00155 | -- | -- | 0.0048 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | ng/L | 0-0.5 | 4 / 11 | 36 | 0.00091 | 0.00548 | 0.00053 | 0.00071 | 0.0024 | 0.00161 | 4.4223E-06 | 0.0021 | -- | -- | 0.00548 | Maximum Detect |
| 2,3,4,7,8-pecdf | ng/L | 0-0.5 | 5 / 11 | 45 | 0.002 | 0.0156 | 0.00053 | 0.00087 | 0.00695 | 0.00486 | 0.000028679 | 0.00536 | 0.00622 | 95% KM (t) UCL | 0.00622 | UCL |
| 2,3,7,8-tcdd | ng/L | 0-0.5 | 0 / 11 | 0 | N/A | N/A | 0.00049 | 0.00084 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | ng/L | 0-0.5 | 8 / 11 | 73 | 0.00103 | 0.0567 | 0.00053 | 0.00094 | 0.0192 | 0.0111 | 0.00041054 | 0.0203 | 0.0247 | 95% KM (t) UCL | 0.0247 | UCL |
| octa cdd | ng/L | 0-0.5 | 11 / 11 | 100 | 0.0293 | 1.89 | N/A | N/A | 0.393 | 0.0382 | 0.34 | 0.583 | 1.49 | 97.5% Chebyshev (Mean, Sd) UCL | 1.49 | UCL |
| octa cdf | ng/L | 0-0.5 | 7 / 11 | 64 | 0.0018 | 0.149 | 0.00098 | 0.001 | 0.0338 | 0.0088 | 0.00284 | 0.0532 | 0.0469 | 95% KM (t) UCL | 0.0469 | UCL |

**Table E2-11**
**Summary Statistics - Sitewide Aquatic Tissue and Reference Tissue**

**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Depth (ft bgs) | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Reference Area** | | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | |
| Barium | mg/L | 0-0.5 | 1 / 1 | 100 | 0.0174 | 0.0174 | N/A | N/A | 0.0174 | 0.0174 | N/A | N/A | -- | -- | 0.0174 | Maximum Detect |
| Cobalt | mg/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.01 | 0.01 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Chromium | mg/L | 0-0.5 | 1 / 1 | 100 | 0.00049 | 0.00049 | N/A | N/A | 0.00049 | 0.00049 | N/A | N/A | -- | -- | 0.00049 | Maximum Detect |
| Lead | mg/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.002 | 0.002 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Mercury | mg/L | 0-0.5 | 0 / 12 | 0 | N/A | N/A | 0.000068 | 0.000068 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Vanadium | mg/L | 0-0.5 | 1 / 1 | 100 | 0.00052 | 0.00052 | N/A | N/A | 0.00052 | 0.00052 | N/A | N/A | -- | -- | 0.00052 | Maximum Detect |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | |
| BZ#105 | mg/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#114 | mg/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#123 | mg/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.000038 | 0.000038 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#156 | mg/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#157 | mg/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.000038 | 0.000038 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#77 | mg/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.000019 | 0.000019 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.000038 | 0.000038 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.00135 | 0.00135 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,6,7,8-hpcdf | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.00047 | 0.00047 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,7,8,9-hpcdf | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.00059 | 0.00059 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,7,8-hxcdd | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.00056 | 0.00056 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,4,7,8-hxcdf | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.00049 | 0.00049 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,6,7,8-hxcdd | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.0005 | 0.0005 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,6,7,8-hxcdf | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.00049 | 0.00049 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8,9-hxcdd | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.0005 | 0.0005 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8,9-hxcdf | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.0006 | 0.0006 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.00051 | 0.00051 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdf | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.00051 | 0.00051 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,4,6,7,8-hxcdf | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.00054 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,4,7,8-pecdf | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.00083 | 0.00083 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdd | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.00053 | 0.00053 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.00054 | 0.00054 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| octa cdd | ng/L | 0-0.5 | 1 / 1 | 100 | 0.025 | 0.025 | N/A | N/A | 0.025 | 0.025 | N/A | N/A | -- | -- | 0.025 | Maximum Detect |
| octa cdf | ng/L | 0-0.5 | 0 / 1 | 0 | N/A | N/A | 0.0011 | 0.0011 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |

**Notes:**
"--" = not applicable
% = percent
EPC = exposure point concentration
mg/L = milligrams per liter
N/A = not available
ng/L =nanograms per liter
PCB = polychlorinated biphenyl
TOC = total organic carbon
UCL = upper confidence limit

**Table E2-12**
**Summary Statistics - Sitewide Surface Water and Reference Surface Water**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | | |
| **Aquatic Plants** | | | | | | | | | | | | | | | | | | |
| Sitewide | PCBs | mg/kg dw | 21 | / | 27 | 78 | 0.244 | 1.69 | 0.073 | 0.117 | 0.715 | 0.647 | 0.147 | 0.384 | 0.715 | 95% KM (t) UCL | 0.715 | UCL |
| Reference Area | PCBs | mg/kg dw | 1 | / | 9 | 11 | 5.075 | 5.075 | 0.0733 | 0.101 | 5.075 | 5.075 | N/A | N/A | -- | -- | 5.075 | Maximum Detect |
| **Emergent Insects** | | | | | | | | | | | | | | | | | | |
| Sitewide | PCBs | mg/kg dw | 27 | / | 27 | 100 | 0.305 | 27.22 | N/A | N/A | 5.757 | 0.833 | 89.34 | 9.452 | 13.69 | 95% Chebyshev (Mean, Sd) UCL | 13.69 | UCL |
| Reference Area | PCBs | mg/kg dw | 0 | / | 9 | 0 | N/A | N/A | 0.148 | 0.478 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Benthic Invertebrates (Odonata)** | | | | | | | | | | | | | | | | | | |
| Sitewide | PCBs | mg/kg dw | 27 | / | 27 | 100 | 0.614 | 3.511 | N/A | N/A | 1.411 | 1.21 | 0.478 | 0.691 | 1.658 | 95% Adjusted Gamma UCL | 1.658 | UCL |
| Reference Area | PCBs | mg/kg dw | 0 | / | 9 | 0 | N/A | N/A | 0.138 | 0.35 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Crayfish** | | | | | | | | | | | | | | | | | | |
| Sitewide | PCBs | mg/kg dw | 23 | / | 23 | 100 | 0.235 | 3.8 | N/A | N/A | 1.626 | 1.288 | 0.92 | 0.959 | 1.97 | 95% Student's-t UCL | 1.97 | UCL |
| Reference Area | PCBs | mg/kg dw | 0 | / | 3 | 0 | N/A | N/A | 0.102 | 0.128 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Mollusc** | | | | | | | | | | | | | | | | | | |
| Sitewide | PCBs | mg/kg dw | 27 | / | 27 | 100 | 4.598 | 16.89 | N/A | N/A | 10.01 | 10.64 | 12.24 | 3.499 | 11.16 | 95% Student's-t UCL | 11.16 | UCL |
| Reference Area | PCBs | mg/kg dw | 0 | / | 9 | 0 | N/A | N/A | 0.222 | 0.558 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Frogs** | | | | | | | | | | | | | | | | | | |
| Sitewide | PCBs | mg/kg dw | 16 | / | 16 | 100 | 2.424 | 38.45 | N/A | N/A | 8.779 | 4.933 | 90.22 | 9.498 | 14.41 | 95% H-UCL | 14.41 | UCL |
| Reference Area | PCBs | mg/kg dw | 1 | / | 4 | 25 | 0.0893 | 0.0893 | 0.118 | 0.284 | 0.0893 | 0.0893 | N/A | N/A | -- | -- | 0.0893 | Maximum Detect |
| **Snakes** | | | | | | | | | | | | | | | | | | |
| Sitewide | PCBs | mg/kg dw | 11 | / | 11 | 100 | 18.94 | 166.5 | N/A | N/A | 55.25 | 34.75 | 2153 | 46.4 | 90.51 | 95% Adjusted Gamma UCL | 90.51 | UCL |
| Reference Area | PCBs | mg/kg dw | 6 | / | 6 | 100 | 0.0556 | 4.493 | N/A | N/A | 1.23 | 0.706 | 2.884 | 1.698 | -- | -- | 4.493 | Maximum Detect |
| **Predator Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | PCBs | mg/kg dw | 27 | / | 27 | 100 | 21.79 | 175.2 | N/A | N/A | 80.42 | 80.31 | 1261 | 35.51 | 92.08 | 95% Student's-t UCL | 92.08 | UCL |
| Reference Area | PCBs | mg/kg dw | 9 | / | 9 | 100 | 0.186 | 12.76 | N/A | N/A | 3.499 | 1.03 | 20.03 | 4.476 | 10.8 | 95% Adjusted Gamma UCL | 10.8 | UCL |
| **Forage Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | PCBs | mg/kg dw | 81 | / | 81 | 100 | 6.77 | 51.09 | N/A | N/A | 28.16 | 28.17 | 105.1 | 10.25 | 30.06 | 95% Student's-t UCL | 30.06 | UCL |
| Reference Area | PCBs | mg/kg dw | 22 | / | 27 | 81 | 0.0897 | 17.49 | 0.084 | 0.0917 | 2.222 | 0.841 | 17.54 | 4.188 | 4.331 | KM H-UCL | 4.331 | UCL |
| **Bottom Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | PCBs | mg/kg dw | 27 | / | 27 | 100 | 18.23 | 84.27 | N/A | N/A | 46.15 | 45.85 | 316.2 | 17.78 | 51.99 | 95% Student's-t UCL | 51.99 | UCL |
| Reference Area | PCBs | mg/kg dw | 5 | / | 9 | 56 | 0.434 | 0.741 | 0.0722 | 0.0809 | 0.584 | 0.571 | 0.0123 | 0.111 | 0.54 | 95% KM (t) UCL | 0.54 | UCL |
| **All Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | PCBs | mg/kg dw | 135 | / | 135 | 100 | 6.77 | 175.2 | N/A | N/A | 42.21 | 33.78 | 785.4 | 28.02 | 46.16 | 95% H-UCL | 46.16 | UCL |
| Reference Area | PCBs | mg/kg dw | 36 | / | 45 | 80 | 0.0897 | 17.49 | 0.0722 | 0.0917 | 2.314 | 0.841 | 15.9 | 3.987 | 3.617 | KM H-UCL | 3.617 | UCL |
| **Mercury** | | | | | | | | | | | | | | | | | | |
| **Aquatic Plants** | | | | | | | | | | | | | | | | | | |
| Sitewide | Hg | mg/kg dw | 19 | / | 27 | 70 | 0.0325 | 0.376 | 0.0402 | 0.0493 | 0.0877 | 0.0725 | 0.00519 | 0.072 | 0.0852 | KM H-UCL | 0.0852 | UCL |
| Reference Area | Hg | mg/kg dw | 3 | / | 9 | 33 | 0.0353 | 0.0644 | 0.0329 | 0.0411 | 0.0487 | 0.0463 | 0.00021471 | 0.0147 | -- | -- | 0.0644 | Maximum Detect |
| **Emergent Insects** | | | | | | | | | | | | | | | | | | |
| Sitewide | Hg | mg/kg dw | 27 | / | 27 | 100 | 0.0337 | 0.417 | N/A | N/A | 0.185 | 0.155 | 0.00984 | 0.0992 | 0.217 | 95% Student's-t UCL | 0.217 | UCL |
| Reference Area | Hg | mg/kg dw | 9 | / | 9 | 100 | 0.0355 | 0.248 | N/A | N/A | 0.0988 | 0.0656 | 0.00581 | 0.0762 | 0.182 | 95% Adjusted Gamma UCL | 0.182 | UCL |
| **Benthic Invertebrates (Odonata)** | | | | | | | | | | | | | | | | | | |
| Sitewide | Hg | mg/kg dw | 27 | / | 27 | 100 | 0.128 | 0.696 | N/A | N/A | 0.291 | 0.267 | 0.0167 | 0.129 | 0.334 | 95% Student's-t UCL | 0.334 | UCL |
| Reference Area | Hg | mg/kg dw | 9 | / | 9 | 100 | 0.0637 | 0.203 | N/A | N/A | 0.103 | 0.0898 | 0.00231 | 0.048 | 0.133 | 95% Student's-t UCL | 0.133 | UCL |
| **Crayfish** | | | | | | | | | | | | | | | | | | |

**Table E2-12**
**Summary Statistics - Sitewide Surface Water and Reference Surface Water**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| Sitewide | Hg | mg/kg dw | 21 | / | 23 | 91 | 0.109 | 0.287 | 0.725 | 0.8 | 0.169 | 0.145 | 0.00242 | 0.0492 | 0.187 | 95% GROS Adjusted Gamma UCL | 0.187 | UCL |
| Reference Area | Hg | mg/kg dw | 3 | / | 3 | 100 | 0.0617 | 0.102 | N/A | N/A | 0.0845 | 0.0898 | 0.00042714 | 0.0207 | -- | -- | 0.102 | Maximum Detect |
| **Mollusc** | | | | | | | | | | | | | | | | | | |
| Sitewide | Hg | mg/kg dw | 27 | / | 27 | 100 | 0.136 | 1.014 | N/A | N/A | 0.436 | 0.363 | 0.0702 | 0.265 | 0.544 | 95% Adjusted Gamma UCL | 0.544 | UCL |
| Reference Area | Hg | mg/kg dw | 9 | / | 9 | 100 | 0.171 | 0.699 | N/A | N/A | 0.365 | 0.239 | 0.0476 | 0.218 | 0.587 | 95% Adjusted Gamma UCL | 0.587 | UCL |
| **Frogs** | | | | | | | | | | | | | | | | | | |
| Sitewide | Hg | mg/kg dw | 16 | / | 16 | 100 | 0.122 | 1.755 | N/A | N/A | 0.585 | 0.465 | 0.183 | 0.428 | 0.773 | 95% Student's-t UCL | 0.773 | UCL |
| Reference Area | Hg | mg/kg dw | 4 | / | 4 | 100 | 0.107 | 0.279 | N/A | N/A | 0.152 | 0.111 | 0.00717 | 0.0847 | -- | -- | 0.279 | Maximum Detect |
| **Snakes** | | | | | | | | | | | | | | | | | | |
| Sitewide | Hg | mg/kg dw | 11 | / | 11 | 100 | 0.424 | 2.117 | N/A | N/A | 1.128 | 0.941 | 0.33 | 0.574 | 1.442 | 95% Student's-t UCL | 1.442 | UCL |
| Reference Area | Hg | mg/kg dw | 6 | / | 6 | 100 | 0.324 | 1.031 | N/A | N/A | 0.559 | 0.509 | 0.061 | 0.247 | -- | -- | 1.031 | Maximum Detect |
| **Predator Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Hg | mg/kg dw | 27 | / | 27 | 100 | 0.856 | 3.04 | N/A | N/A | 1.559 | 1.541 | 0.274 | 0.523 | 1.73 | 95% Student's-t UCL | 1.73 | UCL |
| Reference Area | Hg | mg/kg dw | 9 | / | 9 | 100 | 0.469 | 2.461 | N/A | N/A | 1.036 | 0.822 | 0.369 | 0.607 | 1.412 | 95% Student's-t UCL | 1.412 | UCL |
| **Forage Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Hg | mg/kg dw | 80 | / | 81 | 99 | 0.0607 | 1.085 | 0.0462 | 0.0462 | 0.406 | 0.38 | 0.0528 | 0.23 | 0.444 | 95% KM (t) UCL | 0.444 | UCL |
| Reference Area | Hg | mg/kg dw | 27 | / | 27 | 100 | 0.0769 | 0.47 | N/A | N/A | 0.273 | 0.304 | 0.0138 | 0.117 | 0.312 | 95% Student's-t UCL | 0.312 | UCL |
| **Bottom Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Hg | mg/kg dw | 27 | / | 27 | 100 | 0.157 | 1.411 | N/A | N/A | 0.489 | 0.41 | 0.0743 | 0.272 | 0.587 | 95% Adjusted Gamma UCL | 0.587 | UCL |
| Reference Area | Hg | mg/kg dw | 9 | / | 9 | 100 | 0.224 | 0.766 | N/A | N/A | 0.439 | 0.331 | 0.0366 | 0.191 | 0.558 | 95% Student's-t UCL | 0.558 | UCL |
| **All Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Hg | mg/kg dw | 134 | / | 135 | 99 | 0.0607 | 3.04 | 0.0462 | 0.0462 | 0.655 | 0.473 | 0.308 | 0.555 | 0.771 | KM H-UCL | 0.771 | UCL |
| Reference Area | Hg | mg/kg dw | 45 | / | 45 | 100 | 0.0769 | 2.461 | N/A | N/A | 0.459 | 0.336 | 0.171 | 0.414 | 0.574 | 95% H-UCL | 0.574 | UCL |
| **Barium** | | | | | | | | | | | | | | | | | | |
| **Aquatic Plants** | | | | | | | | | | | | | | | | | | |
| Sitewide | Ba | mg/kg dw | 3 | / | 3 | 100 | 50 | 70.12 | N/A | N/A | 62.12 | 66.24 | 114 | 10.68 | -- | -- | 70.12 | Maximum Detect |
| Reference Area | Ba | mg/kg dw | 1 | / | 1 | 100 | 118.3 | 118.3 | N/A | N/A | 118.3 | 118.3 | N/A | N/A | -- | -- | 118.3 | Maximum Detect |
| **Emergent Insects** | | | | | | | | | | | | | | | | | | |
| Sitewide | Ba | mg/kg dw | 3 | / | 3 | 100 | 4.422 | 11.35 | N/A | N/A | 6.969 | 5.137 | 14.52 | 3.81 | -- | -- | 11.35 | Maximum Detect |
| Reference Area | Ba | mg/kg dw | 1 | / | 1 | 100 | 9.22 | 9.22 | N/A | N/A | 9.22 | 9.22 | N/A | N/A | -- | -- | 9.22 | Maximum Detect |
| **Benthic Invertebrates (Odonata)** | | | | | | | | | | | | | | | | | | |
| Sitewide | Ba | mg/kg dw | 3 | / | 3 | 100 | 37.33 | 60 | N/A | N/A | 44.89 | 37.34 | 171.2 | 13.08 | -- | -- | 60 | Maximum Detect |
| Reference Area | Ba | mg/kg dw | 1 | / | 1 | 100 | 29.34 | 29.34 | N/A | N/A | 29.34 | 29.34 | N/A | N/A | -- | -- | 29.34 | Maximum Detect |
| **Crayfish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Ba | mg/kg dw | 3 | / | 3 | 100 | 107.2 | 199.3 | N/A | N/A | 156 | 161.6 | 2140 | 46.26 | -- | -- | 199.3 | Maximum Detect |
| Reference Area | Ba | mg/kg dw | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Mollusc** | | | | | | | | | | | | | | | | | | |
| Sitewide | Ba | mg/kg dw | 3 | / | 3 | 100 | 27.06 | 34.15 | N/A | N/A | 31.38 | 32.93 | 14.36 | 3.789 | -- | -- | 34.15 | Maximum Detect |
| Reference Area | Ba | mg/kg dw | 1 | / | 1 | 100 | 42.11 | 42.11 | N/A | N/A | 42.11 | 42.11 | N/A | N/A | -- | -- | 42.11 | Maximum Detect |
| **Frogs** | | | | | | | | | | | | | | | | | | |
| Sitewide | Ba | mg/kg dw | 2 | / | 2 | 100 | 43.7 | 43.98 | N/A | N/A | 43.84 | 43.84 | 0.0403 | 0.201 | -- | -- | 43.98 | Maximum Detect |
| Reference Area | Ba | mg/kg dw | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Snakes** | | | | | | | | | | | | | | | | | | |
| Sitewide | Ba | mg/kg dw | 1 | / | 1 | 100 | 9.91 | 9.91 | N/A | N/A | 9.91 | 9.91 | N/A | N/A | -- | -- | 9.91 | Maximum Detect |
| Reference Area | Ba | mg/kg dw | 1 | / | 1 | 100 | 8.779 | 8.779 | N/A | N/A | 8.779 | 8.779 | N/A | N/A | -- | -- | 8.779 | Maximum Detect |

**Table E2-12**
**Summary Statistics - Sitewide Surface Water and Reference Surface Water**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Predator Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Ba | mg/kg dw | 3 | / | 4 | 75 | 3.39 | 15.29 | 30.82 | 30.82 | 8.323 | 6.289 | 38.5 | 6.205 | -- | -- | 15.29 | Maximum Detect |
| Reference Area | Ba | mg/kg dw | 2 | / | 2 | 100 | 3.906 | 8.446 | N/A | N/A | 6.176 | 6.176 | 10.3 | 3.21 | -- | -- | 8.446 | Maximum Detect |
| **Forage Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Ba | mg/kg dw | 4 | / | 6 | 67 | 8.108 | 32.95 | 378.8 | 384.6 | 15.63 | 10.74 | 136.8 | 11.7 | -- | -- | 32.95 | Maximum Detect |
| **Bottom Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Ba | mg/kg dw | 3 | / | 4 | 75 | 2.032 | 10 | 32.08 | 32.08 | 7.214 | 9.61 | 20.18 | 4.492 | -- | -- | 10 | Maximum Detect |
| Reference Area | Ba | mg/kg dw | 2 | / | 2 | 100 | 12.62 | 38.56 | N/A | N/A | 25.59 | 25.59 | 336.5 | 18.35 | -- | -- | 38.56 | Maximum Detect |
| **All Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Ba | mg/kg dw | 10 | / | 14 | 71 | 2.032 | 32.95 | 30.82 | 384.6 | 10.91 | 9.316 | 75.33 | 8.679 | 14.78 | 95% KM (t) UCL | 14.78 | UCL |
| Reference Area | Ba | mg/kg dw | 4 | / | 4 | 100 | 3.906 | 38.56 | N/A | N/A | 15.88 | 10.53 | 241.2 | 15.53 | -- | -- | 38.56 | Maximum Detect |
| **Cobalt** | | | | | | | | | | | | | | | | | | |
| **Aquatic Plants** | | | | | | | | | | | | | | | | | | |
| Sitewide | Co | mg/kg dw | 0 | / | 3 | 0 | N/A | N/A | 5.732 | 69.44 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Reference Area | Co | mg/kg dw | 1 | / | 1 | 100 | 5.023 | 5.023 | N/A | N/A | 5.023 | 5.023 | N/A | N/A | -- | -- | 5.023 | Maximum Detect |
| **Emergent Insects** | | | | | | | | | | | | | | | | | | |
| Sitewide | Co | mg/kg dw | 1 | / | 3 | 33 | 0.284 | 0.284 | 30.67 | 34.01 | 0.284 | 0.284 | N/A | N/A | -- | -- | 0.284 | Maximum Detect |
| Reference Area | Co | mg/kg dw | 1 | / | 1 | 100 | 0.0816 | 0.0816 | N/A | N/A | 0.0816 | 0.0816 | N/A | N/A | -- | -- | 0.0816 | Maximum Detect |
| **Benthic Invertebrates (Odonata)** | | | | | | | | | | | | | | | | | | |
| Sitewide | Co | mg/kg dw | 2 | / | 3 | 67 | 4.267 | 4.444 | 63.29 | 63.29 | 4.356 | 4.356 | 0.0158 | 0.126 | -- | -- | 4.444 | Maximum Detect |
| Reference Area | Co | mg/kg dw | 1 | / | 1 | 100 | 2.395 | 2.395 | N/A | N/A | 2.395 | 2.395 | N/A | N/A | -- | -- | 2.395 | Maximum Detect |
| **Crayfish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Co | mg/kg dw | 0 | / | 3 | 0 | N/A | N/A | 36.23 | 40 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Reference Area | Co | mg/kg dw | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Mollusc** | | | | | | | | | | | | | | | | | | |
| Sitewide | Co | mg/kg dw | 3 | / | 3 | 100 | 3.415 | 3.882 | N/A | N/A | 3.611 | 3.537 | 0.0589 | 0.243 | -- | -- | 3.882 | Maximum Detect |
| Reference Area | Co | mg/kg dw | 1 | / | 1 | 100 | 5.921 | 5.921 | N/A | N/A | 5.921 | 5.921 | N/A | N/A | -- | -- | 5.921 | Maximum Detect |
| **Frogs** | | | | | | | | | | | | | | | | | | |
| Sitewide | Co | mg/kg dw | 2 | / | 2 | 100 | 1.435 | 1.555 | N/A | N/A | 1.495 | 1.495 | 0.00713 | 0.0845 | -- | -- | 1.555 | Maximum Detect |
| Reference Area | Co | mg/kg dw | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Snakes** | | | | | | | | | | | | | | | | | | |
| Sitewide | Co | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 45.05 | 45.05 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Reference Area | Co | mg/kg dw | 1 | / | 1 | 100 | 0.382 | 0.382 | N/A | N/A | 0.382 | 0.382 | N/A | N/A | -- | -- | 0.382 | Maximum Detect |
| **Predator Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Co | mg/kg dw | 2 | / | 4 | 50 | 0.204 | 0.455 | 0.0411 | 3.226 | 0.329 | 0.329 | 0.0313 | 0.177 | -- | -- | 0.455 | Maximum Detect |
| Reference Area | Co | mg/kg dw | 2 | / | 2 | 100 | 0.0938 | 0.213 | N/A | N/A | 0.153 | 0.153 | 0.00709 | 0.0842 | -- | -- | 0.213 | Maximum Detect |
| **Forage Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Co | mg/kg dw | 0 | / | 6 | 0 | N/A | N/A | 2.905 | 38.61 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **Bottom Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Co | mg/kg dw | 1 | / | 4 | 25 | 0.3 | 0.3 | 0.0294 | 3.396 | 0.3 | 0.3 | N/A | N/A | -- | -- | 0.3 | Maximum Detect |
| Reference Area | Co | mg/kg dw | 2 | / | 2 | 100 | 0.308 | 0.975 | N/A | N/A | 0.641 | 0.641 | 0.222 | 0.472 | -- | -- | 0.975 | Maximum Detect |
| **All Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Co | mg/kg dw | 3 | / | 14 | 21 | 0.204 | 0.455 | 0.0294 | 38.61 | 0.32 | 0.3 | 0.0159 | 0.126 | -- | -- | 0.455 | Maximum Detect |
| Reference Area | Co | mg/kg dw | 4 | / | 4 | 100 | 0.0938 | 0.975 | N/A | N/A | 0.397 | 0.26 | 0.156 | 0.395 | -- | -- | 0.975 | Maximum Detect |
| **Chromium** | | | | | | | | | | | | | | | | | | |

**Table E2-12**
**Summary Statistics - Sitewide Surface Water and Reference Surface Water**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Aquatic Plants** | | | | | | | | | | | | | | | | | | |
| Sitewide | Cr | mg/kg dw | 2 | / | 3 | 67 | 2.573 | 3.125 | 2.293 | 2.293 | 2.849 | 2.849 | 0.153 | 0.391 | -- | -- | 3.125 | Maximum Detect |
| Reference Area | Cr | mg/kg dw | 1 | / | 1 | 100 | 4.566 | 4.566 | N/A | N/A | 4.566 | 4.566 | N/A | N/A | -- | -- | 4.566 | Maximum Detect |
| **Emergent Insects** | | | | | | | | | | | | | | | | | | |
| Sitewide | Cr | mg/kg dw | 2 | / | 3 | 67 | 11.66 | 13.36 | 13.61 | 13.61 | 12.51 | 12.51 | 1.445 | 1.202 | -- | -- | 13.36 | Maximum Detect |
| Reference Area | Cr | mg/kg dw | 1 | / | 1 | 100 | 3.085 | 3.085 | N/A | N/A | 3.085 | 3.085 | N/A | N/A | -- | -- | 3.085 | Maximum Detect |
| **Benthic Invertebrates (Odonata)** | | | | | | | | | | | | | | | | | | |
| Sitewide | Cr | mg/kg dw | 3 | / | 3 | 100 | 3.228 | 3.867 | N/A | N/A | 3.476 | 3.333 | 0.117 | 0.342 | -- | -- | 3.867 | Maximum Detect |
| Reference Area | Cr | mg/kg dw | 1 | / | 1 | 100 | 1.557 | 1.557 | N/A | N/A | 1.557 | 1.557 | N/A | N/A | -- | -- | 1.557 | Maximum Detect |
| **Crayfish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Cr | mg/kg dw | 1 | / | 3 | 33 | 1.387 | 1.387 | 14.49 | 16 | 1.387 | 1.387 | N/A | N/A | -- | -- | 1.387 | Maximum Detect |
| Reference Area | Cr | mg/kg dw | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Mollusc** | | | | | | | | | | | | | | | | | | |
| Sitewide | Cr | mg/kg dw | 3 | / | 3 | 100 | 9.268 | 13.41 | N/A | N/A | 10.78 | 9.647 | 5.255 | 2.292 | -- | -- | 13.41 | Maximum Detect |
| Reference Area | Cr | mg/kg dw | 1 | / | 1 | 100 | 6.184 | 6.184 | N/A | N/A | 6.184 | 6.184 | N/A | N/A | -- | -- | 6.184 | Maximum Detect |
| **Frogs** | | | | | | | | | | | | | | | | | | |
| Sitewide | Cr | mg/kg dw | 2 | / | 2 | 100 | 7.143 | 18.06 | N/A | N/A | 12.6 | 12.6 | 59.54 | 7.716 | -- | -- | 18.06 | Maximum Detect |
| Reference Area | Cr | mg/kg dw | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Snakes** | | | | | | | | | | | | | | | | | | |
| Sitewide | Cr | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 18.02 | 18.02 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Reference Area | Cr | mg/kg dw | 1 | / | 1 | 100 | 1.45 | 1.45 | N/A | N/A | 1.45 | 1.45 | N/A | N/A | -- | -- | 1.45 | Maximum Detect |
| **Predator Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Cr | mg/kg dw | 3 | / | 4 | 75 | 0.514 | 1.9 | 16.53 | 16.53 | 1.213 | 1.226 | 0.48 | 0.693 | -- | -- | 1.9 | Maximum Detect |
| Reference Area | Cr | mg/kg dw | 2 | / | 2 | 100 | 0.443 | 0.574 | N/A | N/A | 0.509 | 0.509 | 0.00866 | 0.0931 | -- | -- | 0.574 | Maximum Detect |
| **Forage Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Cr | mg/kg dw | 6 | / | 6 | 100 | 1.328 | 11.11 | N/A | N/A | 5.457 | 5.136 | 10.76 | 3.28 | -- | -- | 11.11 | Maximum Detect |
| **Bottom Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Cr | mg/kg dw | 3 | / | 4 | 75 | 0.257 | 0.721 | 1.132 | 1.132 | 0.545 | 0.656 | 0.0632 | 0.251 | -- | -- | 0.721 | Maximum Detect |
| Reference Area | Cr | mg/kg dw | 2 | / | 2 | 100 | 0.892 | 16.53 | N/A | N/A | 8.709 | 8.709 | 122.2 | 11.05 | -- | -- | 16.53 | Maximum Detect |
| **All Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Cr | mg/kg dw | 12 | / | 14 | 86 | 0.257 | 11.11 | 1.132 | 16.53 | 3.168 | 1.614 | 10.77 | 3.281 | 4.556 | 95% KM (t) UCL | 4.556 | UCL |
| Reference Area | Cr | mg/kg dw | 4 | / | 4 | 100 | 0.443 | 16.53 | N/A | N/A | 4.609 | 0.733 | 63.15 | 7.947 | -- | -- | 16.53 | Maximum Detect |
| **Lead** | | | | | | | | | | | | | | | | | | |
| **Aquatic Plants** | | | | | | | | | | | | | | | | | | |
| Sitewide | Pb | mg/kg dw | 3 | / | 3 | 100 | 1.783 | 7.054 | N/A | N/A | 4.265 | 3.958 | 7.015 | 2.649 | -- | -- | 7.054 | Maximum Detect |
| Reference Area | Pb | mg/kg dw | 1 | / | 1 | 100 | 1.918 | 1.918 | N/A | N/A | 1.918 | 1.918 | N/A | N/A | -- | -- | 1.918 | Maximum Detect |
| **Emergent Insects** | | | | | | | | | | | | | | | | | | |
| Sitewide | Pb | mg/kg dw | 3 | / | 3 | 100 | 0.286 | 0.675 | N/A | N/A | 0.469 | 0.445 | 0.0383 | 0.196 | -- | -- | 0.675 | Maximum Detect |
| Reference Area | Pb | mg/kg dw | 1 | / | 1 | 100 | 0.284 | 0.284 | N/A | N/A | 0.284 | 0.284 | N/A | N/A | -- | -- | 0.284 | Maximum Detect |
| **Benthic Invertebrates (Odonata)** | | | | | | | | | | | | | | | | | | |
| Sitewide | Pb | mg/kg dw | 3 | / | 3 | 100 | 3.608 | 6 | N/A | N/A | 4.869 | 5 | 1.444 | 1.202 | -- | -- | 6 | Maximum Detect |
| Reference Area | Pb | mg/kg dw | 1 | / | 1 | 100 | 1.557 | 1.557 | N/A | N/A | 1.557 | 1.557 | N/A | N/A | -- | -- | 1.557 | Maximum Detect |
| **Crayfish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Pb | mg/kg dw | 3 | / | 3 | 100 | 0.942 | 3.285 | N/A | N/A | 2.009 | 1.8 | 1.405 | 1.185 | -- | -- | 3.285 | Maximum Detect |
| Reference Area | Pb | mg/kg dw | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table E2-12**
**Summary Statistics - Sitewide Surface Water and Reference Surface Water**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Mollusc** | | | | | | | | | | | | | | | | | | |
| Sitewide | Pb | mg/kg dw | 3 | / | 3 | 100 | 3.537 | 4.471 | N/A | N/A | 3.889 | 3.659 | 0.258 | 0.508 | -- | -- | 4.471 | Maximum Detect |
| Reference Area | Pb | mg/kg dw | 1 | / | 1 | 100 | 1.711 | 1.711 | N/A | N/A | 1.711 | 1.711 | N/A | N/A | -- | -- | 1.711 | Maximum Detect |
| **Frogs** | | | | | | | | | | | | | | | | | | |
| Sitewide | Pb | mg/kg dw | 2 | / | 2 | 100 | 2.647 | 4.12 | N/A | N/A | 3.384 | 3.384 | 1.085 | 1.042 | -- | -- | 4.12 | Maximum Detect |
| Reference Area | Pb | mg/kg dw | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Snakes** | | | | | | | | | | | | | | | | | | |
| Sitewide | Pb | mg/kg dw | 1 | / | 1 | 100 | 0.766 | 0.766 | N/A | N/A | 0.766 | 0.766 | N/A | N/A | -- | -- | 0.766 | Maximum Detect |
| Reference Area | Pb | mg/kg dw | 1 | / | 1 | 100 | 0.267 | 0.267 | N/A | N/A | 0.267 | 0.267 | N/A | N/A | -- | -- | 0.267 | Maximum Detect |
| **Predator Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Pb | mg/kg dw | 2 | / | 4 | 50 | 0.0959 | 0.214 | 0.609 | 8.264 | 0.155 | 0.155 | 0.00696 | 0.0834 | -- | -- | 0.214 | Maximum Detect |
| Reference Area | Pb | mg/kg dw | 1 | / | 2 | 50 | 0.125 | 0.125 | 5.208 | 5.208 | 0.125 | 0.125 | N/A | N/A | -- | -- | 0.125 | Maximum Detect |
| **Forage Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Pb | mg/kg dw | 4 | / | 6 | 67 | 0.155 | 2.069 | 7.519 | 7.722 | 0.649 | 0.186 | 0.896 | 0.947 | -- | -- | 2.069 | Maximum Detect |
| **Bottom Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Pb | mg/kg dw | 3 | / | 4 | 75 | 0.216 | 0.375 | 0.642 | 0.642 | 0.285 | 0.265 | 0.00662 | 0.0814 | -- | -- | 0.375 | Maximum Detect |
| Reference Area | Pb | mg/kg dw | 2 | / | 2 | 100 | 0.138 | 0.161 | N/A | N/A | 0.15 | 0.15 | 0.00025437 | 0.0159 | -- | -- | 0.161 | Maximum Detect |
| **All Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | Pb | mg/kg dw | 9 | / | 14 | 64 | 0.0959 | 2.069 | 0.609 | 8.264 | 0.418 | 0.214 | 0.389 | 0.624 | 0.547 | KM H-UCL | 0.547 | UCL |
| Reference Area | Pb | mg/kg dw | 3 | / | 4 | 75 | 0.125 | 0.161 | 5.208 | 5.208 | 0.141 | 0.138 | 0.0003312 | 0.0182 | -- | -- | 0.161 | Maximum Detect |
| **Vanadium** | | | | | | | | | | | | | | | | | | |
| **Aquatic Plants** | | | | | | | | | | | | | | | | | | |
| Sitewide | V | mg/kg dw | 2 | / | 3 | 67 | 1.494 | 1.944 | 2.293 | 2.293 | 1.719 | 1.719 | 0.102 | 0.319 | -- | -- | 1.944 | Maximum Detect |
| Reference Area | V | mg/kg dw | 1 | / | 1 | 100 | 6.849 | 6.849 | N/A | N/A | 6.849 | 6.849 | N/A | N/A | -- | -- | 6.849 | Maximum Detect |
| **Emergent Insects** | | | | | | | | | | | | | | | | | | |
| Sitewide | V | mg/kg dw | 1 | / | 3 | 33 | 0.583 | 0.583 | 0.0582 | 13.61 | 0.583 | 0.583 | N/A | N/A | -- | -- | 0.583 | Maximum Detect |
| Reference Area | V | mg/kg dw | 1 | / | 1 | 100 | 0.312 | 0.312 | N/A | N/A | 0.312 | 0.312 | N/A | N/A | -- | -- | 0.312 | Maximum Detect |
| **Benthic Invertebrates (Odonata)** | | | | | | | | | | | | | | | | | | |
| Sitewide | V | mg/kg dw | 3 | / | 3 | 100 | 2.215 | 2.556 | N/A | N/A | 2.412 | 2.467 | 0.0312 | 0.177 | -- | -- | 2.556 | Maximum Detect |
| Reference Area | V | mg/kg dw | 1 | / | 1 | 100 | 1.677 | 1.677 | N/A | N/A | 1.677 | 1.677 | N/A | N/A | -- | -- | 1.677 | Maximum Detect |
| **Crayfish** | | | | | | | | | | | | | | | | | | |
| Sitewide | V | mg/kg dw | 1 | / | 3 | 33 | 1.387 | 1.387 | 14.49 | 16 | 1.387 | 1.387 | N/A | N/A | -- | -- | 1.387 | Maximum Detect |
| Reference Area | V | mg/kg dw | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Mollusc** | | | | | | | | | | | | | | | | | | |
| Sitewide | V | mg/kg dw | 3 | / | 3 | 100 | 1.463 | 1.882 | N/A | N/A | 1.725 | 1.829 | 0.052 | 0.228 | -- | -- | 1.882 | Maximum Detect |
| Reference Area | V | mg/kg dw | 1 | / | 1 | 100 | 5.526 | 5.526 | N/A | N/A | 5.526 | 5.526 | N/A | N/A | -- | -- | 5.526 | Maximum Detect |
| **Frogs** | | | | | | | | | | | | | | | | | | |
| Sitewide | V | mg/kg dw | 2 | / | 2 | 100 | 1.008 | 1.62 | N/A | N/A | 1.314 | 1.314 | 0.187 | 0.433 | -- | -- | 1.62 | Maximum Detect |
| Reference Area | V | mg/kg dw | -- | / | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Snakes** | | | | | | | | | | | | | | | | | | |
| Sitewide | V | mg/kg dw | 0 | / | 1 | 0 | N/A | N/A | 18.02 | 18.02 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| Reference Area | V | mg/kg dw | 1 | / | 1 | 100 | 0.573 | 0.573 | N/A | N/A | 0.573 | 0.573 | N/A | N/A | -- | -- | 0.573 | Maximum Detect |
| **Predator Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | V | mg/kg dw | 1 | / | 4 | 25 | 0.148 | 0.148 | 0.0411 | 16.53 | 0.148 | 0.148 | N/A | N/A | -- | -- | 0.148 | Maximum Detect |
| Reference Area | V | mg/kg dw | 2 | / | 2 | 100 | 0.0807 | 0.128 | N/A | N/A | 0.105 | 0.105 | 0.00114 | 0.0337 | -- | -- | 0.128 | Maximum Detect |

**Table E2-12**
**Summary Statistics - Sitewide Surface Water and Reference Surface Water**

**Anniston PCB Site, Anniston, Alabama**

| Reach | COPC | Units | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects | / | Total | FOD (%) | Minimum Detect | Maximum Detect | Minimum Non-Detect | Maximum Non-Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Forage Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | V | mg/kg dw | 1 | / | 6 | 17 | 1.188 | 1.188 | 1.245 | 15.44 | 1.188 | 1.188 | N/A | N/A | -- | -- | 1.188 | Maximum Detect |
| **Bottom Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | V | mg/kg dw | 1 | / | 4 | 25 | 0.258 | 0.258 | 0.0294 | 1.132 | 0.258 | 0.258 | N/A | N/A | -- | -- | 0.258 | Maximum Detect |
| Reference Area | V | mg/kg dw | 2 | / | 2 | 100 | 0.302 | 0.356 | N/A | N/A | 0.329 | 0.329 | 0.00148 | 0.0385 | -- | -- | 0.356 | Maximum Detect |
| **All Fish** | | | | | | | | | | | | | | | | | | |
| Sitewide | V | mg/kg dw | 3 | / | 14 | 21 | 0.148 | 1.188 | 0.0294 | 16.53 | 0.531 | 0.258 | 0.326 | 0.571 | -- | -- | 1.188 | Maximum Detect |
| Reference Area | V | mg/kg dw | 4 | / | 4 | 100 | 0.0807 | 0.356 | N/A | N/A | 0.217 | 0.215 | 0.0176 | 0.133 | -- | -- | 0.356 | Maximum Detect |

**Notes:**
"--" = not applicable
% = percent
EPC = exposure point concentration
mg/kg dw= milligrams per kilograms dry weight
N/A = not available
PCB = polychlorinated biphenyl
TOC = total organic carbon
UCL = upper confidence limit

# APPENDIX E-3

## Food Web Calculations

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**Table E3-1**

**Lower Trophic Level Terrestrial Risk Calculations For Reach C1**

**Anniston PCB Site, Anniston, Alabama**

| Media | Receptor Community | COPC | Soil EPC[b] (mg/kg) | Toxicity Benchmarks[a] (mg/kg) | | Hazard Quotients | |
|---|---|---|---|---|---|---|---|
| | | | | NOAEL | LOAEL | NOAEL | LOAEL |
| Soil - East | **Terrestrial Plants** | **PCB** | 1.14E+01 | 4.00E+01 | NA | 3E-01 | -- |
| | | **Chromium** | -- | 1.00E+00 | NA | -- | -- |
| | | **Lead** | -- | 1.20E+02 | NA | -- | -- |
| | | **Mercury** | -- | 3.00E-01 | NA | -- | -- |
| | | **Vanadium** | -- | 2.00E+00 | NA | -- | -- |
| | **Terrestrial Invertebrates** | **PCB** | 1.14E+01 | 3.60E+00 | 3.60E+01 | **3E+00** | 3E-01 |
| | | **Chromium** | -- | 4.00E-01 | NA | -- | -- |
| | | **Lead** | -- | 1.70E+03 | NA | -- | -- |
| | | **Mercury** | -- | 1.00E-01 | 0.23 | -- | -- |
| | | **Vanadium** | -- | NA | NA | -- | -- |
| Soil - West | **Terrestrial Plants** | **PCB** | 2.07E+02 | 4.00E+01 | NA | **5E+00** | -- |
| | | **Chromium** | -- | 1.00E+00 | NA | -- | -- |
| | | **Lead** | -- | 1.20E+02 | NA | -- | -- |
| | | **Mercury** | -- | 3.00E-01 | NA | -- | -- |
| | | **Vanadium** | -- | 2.00E+00 | NA | -- | -- |
| | **Terrestrial Invertebrates** | **PCB** | 2.07E+02 | 3.60E+00 | 3.60E+01 | **6E+01** | **6E+00** |
| | | **Chromium** | -- | 4.00E-01 | NA | -- | -- |
| | | **Lead** | -- | 1.70E+03 | NA | -- | -- |
| | | **Mercury** | -- | 1.00E-01 | 0.23 | -- | -- |
| | | **Vanadium** | -- | NA | NA | -- | -- |
| Soil - Riparian | **Terrestrial Plants** | **PCB** | 1.02E+01 | 4.00E+01 | NA | 3E-01 | -- |
| | | **Chromium** | 2.75E+01 | 1.00E+00 | NA | **3E+01** | -- |
| | | **Lead** | 5.65E+01 | 1.20E+02 | NA | 5E-01 | -- |
| | | **Mercury** | 2.81E+00 | 3.00E-01 | NA | **9E+00** | -- |
| | | **Vanadium** | 2.02E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 1.02E+01 | 3.60E+00 | 3.60E+01 | **3E+00** | 3E-01 |
| | | **Chromium** | 2.75E+01 | 4.00E-01 | NA | **7E+01** | -- |
| | | **Lead** | 5.65E+01 | 1.70E+03 | NA | 3E-02 | -- |
| | | **Mercury** | 2.81E+00 | 1.00E-01 | 0.23 | **3E+01** | **1E+01** |
| | | **Vanadium** | 2.02E+01 | NA | NA | -- | -- |

**Notes:**

a = NOAELs represent chronic values and LOAELs represent acute values

b = Riparian soil for C1 is based on the upper assessment area.

COPC = constituent of potential concern

EPC = exposure point concentration

LOAEL = lowest observed adverse effect level

mg/kg = milligram per kilogram

NA = not applicable

NOAEL = no observed adverse effect level

OU = Operable Unit

PCB = total polychlorinated biphenyl

**Bold indicates hazard quotients greater than 1**

**Table E3-2**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C1**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| Tree Swallow - mid | tPCB-med | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 2.20E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 4.60E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 2.10E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 1.10E+02 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 5.80E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 5.30E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Tree Swallow - high | tPCB-high | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Spotted Sandpiper - 2 - mid | tPCB-med | 1.60E+01 | 1.57E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Barium | 2.20E+02 | 1.21E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Chromium | 4.60E+01 | 1.80E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Cobalt | 2.10E+01 | 1.22E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Lead | 1.10E+02 | 6.73E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Mercury | 5.80E-01 | 4.30E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Vanadium | 5.30E+01 | 1.71E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| Spotted Sandpiper - 2 - high | tPCB-high | 1.60E+01 | 1.57E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| Kingfisher - 1 - mid | tPCB-med | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Barium | 2.20E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Chromium | 4.60E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Cobalt | 2.10E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Lead | 1.10E+02 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Mercury | 5.80E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Vanadium | 5.30E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| Kingfisher - 1 - high | tPCB-high | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| Kingfisher - 2 - mid | tPCB-med | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Barium | 2.20E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Chromium | 4.60E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Cobalt | 2.10E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Lead | 1.10E+02 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Mercury | 5.80E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Vanadium | 5.30E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| Kingfisher - 2 - high | tPCB-high | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| Osprey - mid | tPCB-med | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 2.20E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 4.60E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 2.10E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 1.10E+02 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 5.80E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 5.30E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Osprey - high | tPCB-high | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Bat | tPCB | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 2.20E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 4.60E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 2.10E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 1.10E+02 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 5.80E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 5.30E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Otter | tPCB-mink | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Otter (Alternative TRV) | tPCB-mink | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 2.20E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 4.60E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 2.10E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 1.10E+02 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 5.80E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 5.30E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-2**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C1**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | |
|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Tree Swallow - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Tree Swallow - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Osprey - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Osprey - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Bat** | **tPCB** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Otter** | **tPCB-mink** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |

**Table E3-2**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C1**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-2**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C1**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 7.74E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.82E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.21E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 3.74E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 5.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 4.59E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 7.74E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 1.62E+00 | 0.00E+00 | 2.81E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.12E-01 | 2.66E-05 |
| | **Barium** | 0.00E+00 | 1.79E+01 | 0.00E+00 | 1.79E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 2.06E-02 |
| | **Chromium** | 0.00E+00 | 1.45E+00 | 0.00E+00 | 1.45E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E+00 | 3.06E-03 |
| | **Cobalt** | 0.00E+00 | 2.33E+00 | 0.00E+00 | 2.33E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.73E-01 | 2.07E-03 |
| | **Lead** | 0.00E+00 | 7.81E+00 | 0.00E+00 | 7.81E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.53E+00 | 1.14E-02 |
| | **Mercury** | 0.00E+00 | 2.38E-02 | 0.00E+00 | 5.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.86E-02 | 7.31E-05 |
| | **Vanadium** | 0.00E+00 | 2.06E+00 | 0.00E+00 | 2.06E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E+00 | 2.91E-03 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 1.62E+00 | 0.00E+00 | 2.81E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.12E-01 | 2.66E-05 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.19E+01 | 0.00E+00 | 0.00E+00 | 5.04E-02 | 1.72E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.25E+01 | 0.00E+00 | 0.00E+00 | 6.93E-01 | 1.33E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.29E+00 | 0.00E+00 | 0.00E+00 | 1.45E-01 | 1.98E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 6.62E-02 | 1.34E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.77E-01 | 0.00E+00 | 0.00E+00 | 3.47E-01 | 7.40E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-02 | 0.00E+00 | 0.00E+00 | 1.83E-03 | 4.73E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E+00 | 0.00E+00 | 0.00E+00 | 1.67E-01 | 1.88E-03 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.19E+01 | 0.00E+00 | 0.00E+00 | 5.04E-02 | 1.72E-05 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.17E-01 | 0.00E+00 | 0.00E+00 | 3.19E+01 | 0.00E+00 | 1.09E+00 | 5.04E-02 | 1.72E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E+01 | 0.00E+00 | 0.00E+00 | 2.47E+01 | 0.00E+00 | 2.04E+00 | 6.93E-01 | 1.33E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-01 | 0.00E+00 | 0.00E+00 | 3.26E+00 | 0.00E+00 | 4.01E-01 | 1.45E-01 | 1.98E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 6.45E-02 | 6.62E-02 | 1.34E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 0.00E+00 | 0.00E+00 | 2.87E-01 | 0.00E+00 | 3.41E-01 | 3.47E-01 | 7.40E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.98E-03 | 0.00E+00 | 0.00E+00 | 9.73E-03 | 0.00E+00 | 3.52E-03 | 1.83E-03 | 4.73E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.97E-01 | 0.00E+00 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 7.54E-02 | 1.67E-01 | 1.88E-03 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.17E-01 | 0.00E+00 | 0.00E+00 | 3.19E+01 | 0.00E+00 | 1.09E+00 | 5.04E-02 | 1.72E-05 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.59E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.68E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.82E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 5.71E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.08E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 8.94E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.76E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.01E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 3.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 7.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.95E+00 | 9.88E+00 | 2.78E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.95E+00 | 9.88E+00 | 2.78E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 3.95E-01 | 2.16E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-01 | 5.63E-02 | 2.85E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E-02 | 9.68E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.71E-02 | 2.15E-02 | 2.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.55E-03 | 6.09E-03 | 8.50E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.32E-02 | 1.13E-02 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 |

**Table E3-2**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C1**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 7.74E+01 | 7.74E+01 | 4.67E-01 | 1.40E+00 | **2E+02** | **6E+01** | **2E+02** | **6E+01** |
| | **Barium** | 2.82E+00 | 2.84E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 1.21E+01 | 1.21E+01 | 2.66E+00 | 2.80E+00 | **5E+00** | **4E+00** | **5E+00** | **4E+00** |
| | **Cobalt** | 3.74E-01 | 3.76E-01 | 7.61E+00 | 7.80E+00 | 5E-02 | 5E-02 | 5E-02 | 5E-02 |
| | **Lead** | 5.43E-01 | 5.57E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | 4.59E-02 | 4.60E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Vanadium** | 1.02E+00 | 1.02E+00 | 3.44E-01 | 7.00E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Tree Swallow - high** | **tPCB-high** | 7.74E+01 | 7.74E+01 | 4.33E-02 | 1.30E-01 | **2E+03** | **6E+02** | **2E+03** | **6E+02** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 3.02E+01 | 3.02E+01 | 4.67E-01 | 1.40E+00 | **6E+01** | **2E+01** | **6E+01** | **2E+01** |
| | **Barium** | 4.28E+01 | 4.28E+01 | 2.08E+01 | 4.17E+01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Chromium** | 4.37E+00 | 4.37E+00 | 2.66E+00 | 2.80E+00 | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 5.33E+00 | 5.33E+00 | 7.61E+00 | 7.80E+00 | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Lead** | 1.91E+01 | 1.91E+01 | 1.63E+00 | 3.26E+00 | **1E+01** | **6E+00** | **1E+01** | **6E+00** |
| | **Mercury** | 9.40E-02 | 9.41E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 5.82E+00 | 5.83E+00 | 3.44E-01 | 7.00E-01 | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 3.02E+01 | 3.02E+01 | 4.33E-02 | 1.30E-01 | **7E+02** | **2E+02** | **7E+02** | **2E+02** |
| **Kingfisher - 1 - mid** | **tPCB-med** | 4.20E+01 | 4.20E+01 | 4.67E-01 | 1.40E+00 | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| | **Barium** | 3.32E+01 | 3.33E+01 | 2.08E+01 | 4.17E+01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 4.44E+00 | 4.44E+00 | 2.66E+00 | 2.80E+00 | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 3.11E+00 | 3.11E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 7.24E-01 | 7.32E-01 | 1.63E+00 | 3.26E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | 1.46E-02 | 1.47E-02 | 2.27E-02 | 6.80E-02 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Vanadium** | 1.51E+00 | 1.51E+00 | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Kingfisher - 1 - high** | **tPCB-high** | 4.20E+01 | 4.20E+01 | 4.33E-02 | 1.30E-01 | **1E+03** | **3E+02** | **1E+03** | **3E+02** |
| **Kingfisher - 2 - mid** | **tPCB-med** | 3.39E+01 | 3.39E+01 | 4.67E-01 | 1.40E+00 | **7E+01** | **2E+01** | **7E+01** | **2E+01** |
| | **Barium** | 6.49E+01 | 6.49E+01 | 2.08E+01 | 4.17E+01 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Chromium** | 3.91E+00 | 3.92E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 3.04E+00 | 3.04E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 1.40E+00 | 1.41E+00 | 1.63E+00 | 3.26E+00 | 9E-01 | 4E-01 | 9E-01 | 4E-01 |
| | **Mercury** | 2.01E-02 | 2.01E-02 | 2.27E-02 | 6.80E-02 | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Vanadium** | 1.56E+00 | 1.56E+00 | 3.44E-01 | 7.00E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Kingfisher - 2 - high** | **tPCB-high** | 3.39E+01 | 3.39E+01 | 4.33E-02 | 1.30E-01 | **8E+02** | **3E+02** | **8E+02** | **3E+02** |
| **Osprey - mid** | **tPCB-med** | 2.51E+01 | 2.51E+01 | 4.67E-01 | 1.40E+00 | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| | **Barium** | 4.59E+00 | 4.60E+00 | 2.08E+01 | 4.17E+01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 5.68E-01 | 5.69E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 1.10E-01 | 1.11E-01 | 7.61E+00 | 7.80E+00 | 1E-02 | 1E-02 | 1E-02 | 1E-02 |
| | **Lead** | 1.99E-01 | 2.02E-01 | 1.63E+00 | 3.26E+00 | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Mercury** | 1.08E-02 | 1.08E-02 | 2.27E-02 | 6.80E-02 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | 1.82E-01 | 1.83E-01 | 3.44E-01 | 7.00E-01 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| **Osprey - high** | **tPCB-high** | 2.51E+01 | 2.51E+01 | 4.33E-02 | 1.30E-01 | **6E+02** | **2E+02** | **6E+02** | **2E+02** |
| **Bat** | **tPCB** | 5.71E+01 | 5.71E+01 | 2.30E-01 | 6.80E-01 | **2E+02** | **8E+01** | **2E+02** | **8E+01** |
| | **Barium** | 2.08E+00 | 2.10E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 8.94E+00 | 8.94E+00 | 2.40E+00 | 2.82E+00 | **4E+00** | **3E+00** | **4E+00** | **3E+00** |
| | **Cobalt** | 2.76E-01 | 2.78E-01 | 7.33E+00 | 1.00E+01 | 4E-02 | 3E-02 | 4E-02 | 3E-02 |
| | **Lead** | 4.01E-01 | 4.11E-01 | 4.70E+00 | 8.90E+00 | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| | **Mercury** | 3.39E-02 | 3.40E-02 | 7.50E-02 | 1.50E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | 7.51E-01 | 7.54E-01 | 4.16E+00 | 8.31E+00 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| **Otter** | **tPCB-mink** | 1.86E+01 | 1.86E+01 | 5.00E-02 | 1.00E-01 | **4E+02** | **2E+02** | **4E+02** | **2E+02** |
| **Otter (Alternative TRV)** | **tPCB-mink** | 1.86E+01 | 1.86E+01 | na | 5.00E-02 | -- | **4E+02** | -- | **4E+02** |
| | **Barium** | 3.64E+00 | 3.65E+00 | 5.18E+01 | 1.21E+02 | 7E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 4.76E-01 | 4.77E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 2.38E-01 | 2.39E-01 | 7.33E+00 | 1.00E+01 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 9.37E-02 | 9.91E-02 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Mercury** | 9.49E-03 | 9.52E-03 | 7.50E-02 | 1.50E-01 | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Vanadium** | 1.44E-01 | 1.45E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-3**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores |
| **Mourning Dove - mid** | **tPCB-med** | **1.14E+01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Mourning Dove - high** | **tPCB-high** | **1.14E+01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Blue Jay - mid** | **tPCB-med** | **1.14E+01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Blue Jay - high** | **tPCB-high** | **1.14E+01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.14E+01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.14E+01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Shrew - 1** | **tPCB** | **1.14E+01** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Deer** | **tPCB** | **1.14E+01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Weasel** | **tPCB** | **1.14E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Fox - 1** | **tPCB** | **1.14E+01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Fox - 2** | **tPCB** | **1.14E+01** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |

**Table E3-3**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioaccumulation Factors | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water |
| **Mourning Dove - mid** | **tPCB-med** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.23E-01 | 1.88E-05 | 1.03E+00 | 1.03E+00 |
| **Mourning Dove - high** | **tPCB-high** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.23E-01 | 1.88E-05 | 1.03E+00 | 1.03E+00 |
| **Blue Jay - mid** | **tPCB-med** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 6.85E-01 | 3.25E-02 | 0.00E+00 | 8.91E-01 | 0.00E+00 | 2.44E-01 | 2.04E-05 | 1.85E+00 | 1.85E+00 |
| **Blue Jay - high** | **tPCB-high** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 6.85E-01 | 3.25E-02 | 0.00E+00 | 8.91E-01 | 0.00E+00 | 2.44E-01 | 2.04E-05 | 1.85E+00 | 1.85E+00 |
| **Carolina Wren -1 - mid** | **tPCB-med** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.26E-01 | 2.12E-01 | 1.94E+00 | 4.00E+00 | 0.00E+00 | 3.88E-01 | 4.23E-05 | 6.66E+00 | 6.66E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.26E-01 | 2.12E-01 | 1.94E+00 | 4.00E+00 | 0.00E+00 | 3.88E-01 | 4.23E-05 | 6.66E+00 | 6.66E+00 |
| **Shrew - 1** | **tPCB** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 8.81E-02 | 6.31E-02 | 2.50E+00 | 1.73E+00 | 0.00E+00 | 4.36E-02 | 2.35E-05 | 4.43E+00 | 4.43E+00 |
| **Deer** | **tPCB** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.41E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-03 | 1.03E-05 | 8.75E-02 | 8.75E-02 |
| **Weasel** | **tPCB** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.62E-01 | 2.90E-02 | 1.72E-05 | 4.91E-01 | 4.92E-01 |
| **Fox - 1** | **tPCB** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.70E-02 | 0.00E+00 | 8.02E-02 | 0.00E+00 | 2.33E-01 | 1.21E-02 | 1.33E-05 | 3.62E-01 | 3.62E-01 |
| **Fox - 2** | **tPCB** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.09E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.80E-01 | 1.21E-02 | 1.33E-05 | 3.03E-01 | 3.03E-01 |

**Table E3-3**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Blue Jay - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **2E+02** | **5E+01** | **2E+02** | **5E+01** |
| **Shrew - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+01** | **7E+00** | **2E+01** | **7E+00** |
| **Deer** | **tPCB** | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| **Weasel** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| **Fox - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+00** | 5E-01 | **2E+00** | 5E-01 |
| **Fox - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-4**

**Wildlife Risk Calculations Based on**
**Modeled Tissue and Dietary Toxicity**
**Reference Values for Terrestrial Receptors**

**Reach C1, Subarea Soil - West**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores |
| **Mourning Dove - mid** | **tPCB-med** | **2.07E+02** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Mourning Dove - high** | **tPCB-high** | **2.07E+02** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Blue Jay - mid** | **tPCB-med** | **2.07E+02** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Blue Jay - high** | **tPCB-high** | **2.07E+02** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **2.07E+02** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **2.07E+02** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Shrew - 1** | **tPCB** | **2.07E+02** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Deer** | **tPCB** | **2.07E+02** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Weasel** | **tPCB** | **2.07E+02** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Fox - 1** | **tPCB** | **2.07E+02** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Fox - 2** | **tPCB** | **2.07E+02** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |

**Table E3-4**

**Wildlife Risk Calculations Based on**
**Modeled Tissue and Dietary Toxicity**
**Reference Values for Terrestrial Receptors**

**Reach C1, Subarea Soil - West**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioaccumulation Factors | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | Dose From Dietary Components (mg/kg-day) | | Total Dose (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water |
| **Mourning Dove - mid** | **tPCB-med** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.44E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.05E+00 | 1.88E-05 | 1.85E+01 | 1.85E+01 |
| **Mourning Dove - high** | **tPCB-high** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.44E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.05E+00 | 1.88E-05 | 1.85E+01 | 1.85E+01 |
| **Blue Jay - mid** | **tPCB-med** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.22E+01 | 5.91E-01 | 0.00E+00 | 1.63E+01 | 0.00E+00 | 4.42E+00 | 2.04E-05 | 3.35E+01 | 3.35E+01 |
| **Blue Jay - high** | **tPCB-high** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.22E+01 | 5.91E-01 | 0.00E+00 | 1.63E+01 | 0.00E+00 | 4.42E+00 | 2.04E-05 | 3.35E+01 | 3.35E+01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.24E+00 | 3.85E+00 | 3.55E+01 | 7.33E+01 | 0.00E+00 | 7.05E+00 | 4.23E-05 | 1.22E+02 | 1.22E+02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.24E+00 | 3.85E+00 | 3.55E+01 | 7.33E+01 | 0.00E+00 | 7.05E+00 | 4.23E-05 | 1.22E+02 | 1.22E+02 |
| **Shrew - 1** | **tPCB** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.57E+00 | 1.14E+00 | 4.59E+01 | 3.16E+01 | 0.00E+00 | 7.92E-01 | 2.35E-05 | 8.10E+01 | 8.10E+01 |
| **Deer** | **tPCB** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.50E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.05E-02 | 1.03E-05 | 1.56E+00 | 1.56E+00 |
| **Weasel** | **tPCB** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.24E+00 | 5.27E-01 | 1.72E-05 | 2.77E+00 | 2.77E+00 |
| **Fox - 1** | **tPCB** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.58E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 1.13E+00 | 2.19E-01 | 1.33E-05 | 3.48E+00 | 3.48E+00 |
| **Fox - 2** | **tPCB** | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.93E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E+00 | 2.19E-01 | 1.33E-05 | 1.77E+00 | 1.77E+00 |

**Table E3-4**

**Wildlife Risk Calculations Based on**
**Modeled Tissue and Dietary Toxicity**
**Reference Values for Terrestrial Receptors**

**Reach C1, Subarea Soil - West**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Mourning Dove - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **4E+02** | **1E+02** | **4E+02** | **1E+02** |
| **Blue Jay - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **7E+01** | **2E+01** | **7E+01** | **2E+01** |
| **Blue Jay - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **8E+02** | **3E+02** | **8E+02** | **3E+02** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **3E+02** | **9E+01** | **3E+02** | **9E+01** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **3E+03** | **9E+02** | **3E+03** | **9E+02** |
| **Shrew - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **4E+02** | **1E+02** | **4E+02** | **1E+02** |
| **Deer** | **tPCB** | 2.30E-01 | 6.80E-01 | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| **Weasel** | **tPCB** | 2.30E-01 | 6.80E-01 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Fox - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| **Fox - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-5**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.14E+01** | **1.60E+01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.14E+01** | **1.60E+01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.14E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.14E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.14E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Shrew - 2** | **tPCB** | **1.14E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-5**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Bioaccumulation Factors | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |

**Table E3-5**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish | Reptiles | Amphibians |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| **Hawk - mid** | **tPCB-med** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| **Hawk - high** | **tPCB-high** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| **Raccoon - 1** | **tPCB** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| **Shrew - 2** | **tPCB** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |

**Table E3-5**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.12E-01 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 0.00E+00 | 2.12E-01 | 0.00E+00 | 5.64E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.12E-01 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 0.00E+00 | 2.12E-01 | 0.00E+00 | 5.64E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.43E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.43E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 6.78E-02 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 5.19E-03 | 1.42E-01 | 0.00E+00 | 1.11E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 1.25E-01 | 0.00E+00 | 2.78E+00 | 0.00E+00 | 4.33E-02 | 1.18E+00 | 0.00E+00 | 4.98E-02 | 0.00E+00 |

**Table E3-5**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.88E-01 | 0.00E+00 | 4.23E-05 | 2.54E+00 | 5.85E+00 | 8.38E+00 | 8.38E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.88E-01 | 0.00E+00 | 4.23E-05 | 2.54E+00 | 5.85E+00 | 8.38E+00 | 8.38E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E+01 | 0.00E+00 | 5.20E-02 | 7.30E-02 | 8.93E-06 | 5.95E-01 | 1.39E+01 | 1.45E+01 | 1.45E+01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E+01 | 0.00E+00 | 5.20E-02 | 7.30E-02 | 8.93E-06 | 5.95E-01 | 1.39E+01 | 1.45E+01 | 1.45E+01 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.07E-01 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 7.14E-01 | 1.11E-01 | 2.87E-02 | 0.00E+00 | 1.30E-05 | 3.97E-01 | 1.14E+00 | 1.54E+00 | 1.54E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E+00 | 1.77E-01 | 4.36E-02 | 6.13E-02 | 2.35E-05 | 4.22E+00 | 1.94E+00 | 6.16E+00 | 6.16E+00 |

**Table E3-5**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **5E+00** | **2E+00** | **1E+01** | **4E+00** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **6E+01** | **2E+01** | **1E+02** | **4E+01** | **2E+02** | **6E+01** | **2E+02** | **6E+01** |
| **Hawk - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | **3E+01** | **1E+01** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| **Hawk - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+01** | **5E+00** | **3E+02** | **1E+02** | **3E+02** | **1E+02** | **3E+02** | **1E+02** |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+00** | 6E-01 | **5E+00** | **2E+00** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| **Shrew - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+01** | **6E+00** | **8E+00** | **3E+00** | **3E+01** | **9E+00** | **3E+01** | **9E+00** |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-6**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - West**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **2.07E+02** | **1.60E+01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **2.07E+02** | **1.60E+01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **2.07E+02** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **2.07E+02** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **2.07E+02** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Shrew - 2** | **tPCB** | **2.07E+02** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-6**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - West**

**Anniston PCB Site, Anniston, Alabama**

| | | Percent Diet (%) | | | | | | | Bioaccumulation Factors | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Fish (all sizes)** | **Predator Fish** | **Forage Fish** | **Reptiles** | **Amphibians** | **Soil** | **Sediment** | **Aquatic Plants** | **Terrestrial Plants** | **Benthic Invertebrates (odonata larvae)** | **Soil Invertebrates (Worms / Spiders / Detritivores)** |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |

**Table E3-6**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - West**

**Anniston PCB Site, Anniston, Alabama**

| | | Bioaccumulation Factors | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Aquatic Emergent Insects** | **Terrestrial Insects** | **Small mammals/birds** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** | **Fish (all sizes)** | **Forage Fish** | **Reptiles** | **Amphibians** |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| **Hawk - mid** | **tPCB-med** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| **Hawk - high** | **tPCB-high** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| **Raccoon - 1** | **tPCB** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| **Shrew - 2** | **tPCB** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |

**Table E3-6**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - West**

**Anniston PCB Site, Anniston, Alabama**

| | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.12E-01 | 0.00E+00 | 0.00E+00 | 3.55E+01 | 0.00E+00 | 3.85E+00 | 0.00E+00 | 5.64E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.12E-01 | 0.00E+00 | 0.00E+00 | 3.55E+01 | 0.00E+00 | 3.85E+00 | 0.00E+00 | 5.64E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.21E+00 | 0.00E+00 | 2.60E+00 | 0.00E+00 | 9.42E-02 | 2.60E+00 | 0.00E+00 | 5.37E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.22E+00 | 0.00E+00 | 5.09E+01 | 0.00E+00 | 7.85E-01 | 2.17E+01 | 0.00E+00 | 2.41E-01 | 0.00E+00 |

**Table E3-6**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - West**

**Anniston PCB Site, Anniston, Alabama**

| | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Mollusc** | **Crayfish** | **Fish (all sizes)** | **Predator Fish** | **Forage Fish** | **Reptiles** | **Amphibians** | **Soil** | **Sediment** | **Water** | **Soil + Prey** | **Sediment + Prey** | **Soil + Sediment + Prey** | **Soil + Sediment + Prey + Water** |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 0.00E+00 | 4.23E-05 | 4.64E+01 | 5.85E+00 | 5.22E+01 | 5.22E+01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 0.00E+00 | 4.23E-05 | 4.64E+01 | 5.85E+00 | 5.22E+01 | 5.22E+01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E+01 | 0.00E+00 | 9.44E-01 | 7.30E-02 | 8.93E-06 | 3.58E+00 | 1.39E+01 | 1.75E+01 | 1.75E+01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E+01 | 0.00E+00 | 9.44E-01 | 7.30E-02 | 8.93E-06 | 3.58E+00 | 1.39E+01 | 1.75E+01 | 1.75E+01 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.07E-01 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 7.14E-01 | 1.11E-01 | 5.21E-01 | 0.00E+00 | 1.30E-05 | 7.08E+00 | 1.14E+00 | 8.22E+00 | 8.22E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E+00 | 1.77E-01 | 7.92E-01 | 6.13E-02 | 2.35E-05 | 7.66E+01 | 1.94E+00 | 7.85E+01 | 7.85E+01 |

**Table E3-6**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - West**

**Anniston PCB Site, Anniston, Alabama**

| | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **1E+02** | **3E+01** | **1E+01** | **4E+00** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+03** | **4E+02** | **1E+02** | **4E+01** | **1E+03** | **4E+02** | **1E+03** | **4E+02** |
| **Hawk - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **8E+00** | **3E+00** | **3E+01** | **1E+01** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Hawk - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **8E+01** | **3E+01** | **3E+02** | **1E+02** | **4E+02** | **1E+02** | **4E+02** | **1E+02** |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **3E+01** | **1E+01** | **5E+00** | **2E+00** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Shrew - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | **3E+02** | **1E+02** | **8E+00** | **3E+00** | **3E+02** | **1E+02** | **3E+02** | **1E+02** |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-7**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C1, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.45E+02** | **2.20E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.75E+01** | **4.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.04E+01** | **2.10E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.65E+01** | **1.10E+02** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.81E+00** | **5.80E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **5.30E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.45E+02** | **2.20E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **2.75E+01** | **4.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **1.04E+01** | **2.10E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **5.65E+01** | **1.10E+02** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **2.81E+00** | **5.80E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **2.02E+01** | **5.30E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Barium** | **1.45E+02** | **2.20E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Chromium** | **2.75E+01** | **4.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Cobalt** | **1.04E+01** | **2.10E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Lead** | **5.65E+01** | **1.10E+02** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Mercury** | **2.81E+00** | **5.80E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Vanadium** | **2.02E+01** | **5.30E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 2** | **tPCB-mink** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Barium** | **1.45E+02** | **2.20E+02** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Chromium** | **2.75E+01** | **4.60E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Cobalt** | **1.04E+01** | **2.10E+01** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Lead** | **5.65E+01** | **1.10E+02** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Mercury** | **2.81E+00** | **5.80E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Vanadium** | **2.02E+01** | **5.30E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Raccoon - 1** | **tPCB** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **1.45E+02** | **2.20E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **2.75E+01** | **4.60E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **1.04E+01** | **2.10E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **5.65E+01** | **1.10E+02** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **2.81E+00** | **5.80E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **2.02E+01** | **5.30E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Raccoon - 2** | **tPCB** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Barium** | **1.45E+02** | **2.20E+02** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Chromium** | **2.75E+01** | **4.60E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Cobalt** | **1.04E+01** | **2.10E+01** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Lead** | **5.65E+01** | **1.10E+02** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Mercury** | **2.81E+00** | **5.80E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Vanadium** | **2.02E+01** | **5.30E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |

**Table E3-7**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C1, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Percent Diet (%) | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| Spotted Sandpiper - 1 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 1.47E+00 | 8.70E-01 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 2.82E-01 | 8.99E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 5.07E-01 | 3.14E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 8.98E-02 | 5.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.29E-01 | 7.10E-03 |
| Spotted Sandpiper - 1 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| GBH - mid | tPCB-med | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | Barium | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 1.47E+00 | 8.70E-01 |
| | Chromium | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 2.82E-01 | 8.99E-02 |
| | Cobalt | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | Lead | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 5.07E-01 | 3.14E-03 |
| | Mercury | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 8.98E-02 | 5.00E-02 |
| | Vanadium | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.29E-01 | 7.10E-03 |
| GBH - high | tPCB-high | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| Mink - 1 | tPCB-mink | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | Barium | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | Chromium | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| Mink - 2 | tPCB-mink | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | Barium | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | Chromium | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| Raccoon - 1 | tPCB | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | Barium | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | Chromium | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | Cobalt | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | Lead | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | Mercury | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | Vanadium | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| Raccoon - 2 | tPCB | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | Barium | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 1.47E+00 | 8.70E-01 |
| | Chromium | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 2.82E-01 | 8.99E-02 |
| | Cobalt | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | Lead | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 5.07E-01 | 3.14E-03 |
| | Mercury | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 8.98E-02 | 5.00E-02 |
| | Vanadium | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-7**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C1, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| Spotted Sandpiper - 1 - mid | tPCB-med | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | Barium | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | Chromium | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | Cobalt | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | Lead | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | Mercury | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | Vanadium | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| Spotted Sandpiper - 1 - high | tPCB-high | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| GBH - mid | tPCB-med | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | Barium | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | Chromium | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | Cobalt | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | Lead | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | Mercury | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | Vanadium | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| GBH - high | tPCB-high | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| Mink - 1 | tPCB-mink | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | Barium | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | Chromium | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | Cobalt | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | Lead | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | Mercury | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | Vanadium | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| Mink - 2 | tPCB-mink | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | Barium | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | Chromium | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | Cobalt | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | Lead | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | Mercury | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | Vanadium | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| Raccoon - 1 | tPCB | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | Barium | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | Chromium | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | Cobalt | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | Lead | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | Mercury | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | Vanadium | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| Raccoon - 2 | tPCB | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | Barium | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | Chromium | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | Cobalt | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | Lead | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | Mercury | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | Vanadium | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-7**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C1, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** | **Fish (all sizes)** | **Forage Fish** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **GBH - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **GBH - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Mink - 1** | **tPCB-mink** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Mink - 2** | **tPCB-mink** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Raccoon - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-7**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C1, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| **GBH - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| **GBH - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| **Mink - 1** | **tPCB-mink** | 8.33E+01 | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 8.33E+01 | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| **Mink - 2** | **tPCB-mink** | 8.33E+01 | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 8.33E+01 | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| **Raccoon - 1** | **tPCB** | 8.33E+01 | 8.67E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Raccoon - 2** | **tPCB** | 8.33E+01 | 8.67E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 |

**Table E3-7**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C1, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Small mammals | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.62E+00 | 4.23E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-01 | 2.56E-01 | 2.66E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.79E+01 | 1.06E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.33E+00 | 3.53E+00 | 2.06E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.45E+00 | 2.25E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.41E-01 | 7.37E-01 | 3.06E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.33E+00 | 7.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E-01 | 3.36E-01 | 2.07E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 7.81E+00 | 3.33E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.06E-01 | 1.76E+00 | 1.14E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.38E-02 | 3.87E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.50E-02 | 9.29E-03 | 7.31E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 2.06E+00 | 1.13E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-01 | 8.49E-01 | 2.91E-03 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.62E+00 | 4.23E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-01 | 2.56E-01 | 2.66E-05 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-02 | 0.00E+00 | 0.00E+00 | 5.39E-02 | 5.88E+01 | 0.00E+00 | 0.00E+00 | 9.75E-01 | 0.00E+00 | 5.63E-02 | 7.05E-06 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.38E-02 | 0.00E+00 | 0.00E+00 | 2.20E+00 | 1.08E+01 | 0.00E+00 | 0.00E+00 | 1.82E+00 | 0.00E+00 | 7.75E-01 | 5.45E-03 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 6.21E-03 | 1.33E+00 | 0.00E+00 | 0.00E+00 | 3.58E-01 | 0.00E+00 | 1.62E-01 | 8.10E-04 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 2.58E-01 | 0.00E+00 | 0.00E+00 | 5.77E-02 | 0.00E+00 | 7.40E-02 | 5.49E-04 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.72E-03 | 0.00E+00 | 0.00E+00 | 2.51E-02 | 4.66E-01 | 0.00E+00 | 0.00E+00 | 3.05E-01 | 0.00E+00 | 3.87E-01 | 3.03E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.88E-05 | 0.00E+00 | 0.00E+00 | 2.93E-04 | 2.52E-02 | 0.00E+00 | 0.00E+00 | 3.14E-03 | 0.00E+00 | 2.04E-03 | 1.94E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 1.75E-02 | 4.27E-01 | 0.00E+00 | 0.00E+00 | 6.74E-02 | 0.00E+00 | 1.87E-01 | 7.70E-04 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-02 | 0.00E+00 | 0.00E+00 | 5.39E-02 | 5.88E+01 | 0.00E+00 | 0.00E+00 | 9.75E-01 | 0.00E+00 | 5.63E-02 | 7.05E-06 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 2.76E+00 | 0.00E+00 | 1.78E+00 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 2.76E+00 | 0.00E+00 | 1.78E+00 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.66E-01 | 0.00E+00 | 0.00E+00 | 5.56E+00 | 0.00E+00 | 2.15E+00 | 0.00E+00 | 3.32E+00 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-01 | 0.00E+00 | 0.00E+00 | 1.57E-02 | 0.00E+00 | 2.83E-01 | 0.00E+00 | 6.54E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 1.05E-01 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 0.00E+00 | 6.34E-02 | 0.00E+00 | 2.49E-02 | 0.00E+00 | 5.56E-01 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.04E-04 | 0.00E+00 | 0.00E+00 | 7.41E-04 | 0.00E+00 | 8.44E-04 | 0.00E+00 | 5.74E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 4.42E-02 | 0.00E+00 | 8.84E-02 | 0.00E+00 | 1.23E-01 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| **Mink - 2** | **tPCB-mink** | 4.78E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 0.00E+00 | 6.06E-02 | 0.00E+00 | 1.13E+01 | 0.00E+00 | 2.05E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 4.78E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 0.00E+00 | 6.06E-02 | 0.00E+00 | 1.13E+01 | 0.00E+00 | 2.05E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | **Barium** | 1.61E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.08E-02 | 0.00E+00 | 0.00E+00 | 2.47E+00 | 0.00E+00 | 8.79E+00 | 0.00E+00 | 3.83E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | **Chromium** | 6.41E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.44E-02 | 0.00E+00 | 0.00E+00 | 6.97E-03 | 0.00E+00 | 1.16E+00 | 0.00E+00 | 7.54E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | **Cobalt** | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | **Lead** | 2.76E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-02 | 0.00E+00 | 0.00E+00 | 2.82E-02 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 6.42E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | **Mercury** | 2.58E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.23E-05 | 0.00E+00 | 0.00E+00 | 3.29E-04 | 0.00E+00 | 3.46E-03 | 0.00E+00 | 6.63E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | **Vanadium** | 8.63E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 1.97E-02 | 0.00E+00 | 3.62E-01 | 0.00E+00 | 1.42E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 9.83E-02 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 4.66E-03 | 1.27E-01 | 1.04E-02 | 0.00E+00 | 0.00E+00 | 1.07E-01 | 2.10E-01 | 0.00E+00 | 7.14E-01 | 1.11E-01 | 2.58E-02 | 0.00E+00 | 1.30E-05 |
| | **Barium** | 0.00E+00 | 1.49E+00 | 0.00E+00 | 3.19E-01 | 0.00E+00 | 1.53E-02 | 3.19E-01 | 4.35E-02 | 0.00E+00 | 0.00E+00 | 4.36E+00 | 3.84E-02 | 0.00E+00 | 3.13E-02 | 2.08E-01 | 3.66E-01 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | 0.00E+00 | 2.92E-02 | 0.00E+00 | 6.77E-02 | 0.00E+00 | 1.98E-02 | 6.77E-02 | 1.17E-02 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 4.74E-03 | 0.00E+00 | 4.83E-03 | 4.09E-02 | 6.93E-02 | 0.00E+00 | 1.49E-03 |
| | **Cobalt** | 0.00E+00 | 6.99E-03 | 0.00E+00 | 2.40E-02 | 0.00E+00 | 4.95E-02 | 2.40E-02 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 9.20E-04 | 0.00E+00 | 1.21E-02 | 6.59E-03 | 2.63E-02 | 0.00E+00 | 1.01E-03 |
| | **Lead** | 0.00E+00 | 2.09E-03 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.25E-03 | 1.00E-01 | 7.85E-03 | 0.00E+00 | 0.00E+00 | 4.97E-02 | 1.66E-03 | 0.00E+00 | 5.25E-03 | 3.48E-02 | 1.43E-01 | 0.00E+00 | 5.59E-03 |
| | **Mercury** | 0.00E+00 | 1.66E-03 | 0.00E+00 | 1.17E-02 | 0.00E+00 | 1.33E-04 | 1.17E-02 | 3.94E-05 | 0.00E+00 | 0.00E+00 | 5.80E-04 | 8.99E-05 | 0.00E+00 | 5.35E-04 | 3.59E-04 | 7.08E-03 | 0.00E+00 | 3.57E-05 |
| | **Vanadium** | 0.00E+00 | 1.69E-03 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 4.45E-04 | 3.40E-02 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 3.46E-02 | 1.52E-03 | 0.00E+00 | 4.83E-03 | 7.70E-03 | 5.10E-02 | 0.00E+00 | 1.42E-03 |
| **Raccoon - 2** | **tPCB** | 4.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.75E-02 | 2.54E-01 | 5.87E-01 | 1.07E-01 | 2.19E+00 | 0.00E+00 | 0.00E+00 | 4.46E-01 | 0.00E+00 | 4.03E-02 | 1.30E-05 |
| | **Barium** | 1.48E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-01 | 1.62E-01 | 6.12E-01 | 4.36E+00 | 4.01E-01 | 0.00E+00 | 0.00E+00 | 8.32E-01 | 0.00E+00 | 5.55E-01 | 1.00E-02 |
| | **Chromium** | 5.91E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.19E-02 | 1.31E-02 | 2.04E-01 | 1.23E-02 | 4.96E-02 | 0.00E+00 | 0.00E+00 | 1.64E-01 | 0.00E+00 | 1.16E-01 | 1.49E-03 |
| | **Cobalt** | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-02 | 2.10E-02 | 1.24E-01 | 6.97E-02 | 9.62E-03 | 0.00E+00 | 0.00E+00 | 2.64E-02 | 0.00E+00 | 5.30E-02 | 1.01E-03 |
| | **Lead** | 2.55E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.81E-02 | 7.06E-02 | 3.99E-01 | 4.97E-02 | 1.74E-02 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 0.00E+00 | 2.77E-01 | 5.59E-03 |
| | **Mercury** | 2.38E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-04 | 4.67E-04 | 6.51E-04 | 5.80E-04 | 9.40E-04 | 0.00E+00 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 1.46E-03 | 3.57E-05 |
| | **Vanadium** | 7.96E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 | 1.86E-02 | 1.02E-01 | 3.46E-02 | 1.59E-02 | 0.00E+00 | 0.00E+00 | 3.08E-02 | 0.00E+00 | 1.34E-01 | 1.42E-03 |

**Table E3-7**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C1, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.39E+00 | 1.87E+00 | 6.26E+00 | 6.26E+00 | 4.67E-01 | 1.40E+00 | **9E+00** | **3E+00** | **4E+00** | **1E+00** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 1.29E+01 | 2.14E+01 | 3.43E+01 | 3.43E+01 | 2.08E+01 | 4.17E+01 | 6E-01 | 3E-01 | 1E+00 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 2.69E+00 | 2.18E+00 | 4.87E+00 | 4.87E+00 | 2.66E+00 | 2.80E+00 | 1E+00 | 1E+00 | 8E-01 | 8E-01 | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 9.63E-01 | 2.66E+00 | 3.63E+00 | 3.63E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 4E-01 | 3E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | 4.23E+00 | 9.57E+00 | 1.38E+01 | 1.38E+01 | 1.63E+00 | 3.26E+00 | **3E+00** | **1E+00** | **6E+00** | **3E+00** | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Mercury** | 4.32E-01 | 3.31E-02 | 4.65E-01 | 4.65E-01 | 2.27E-02 | 6.80E-02 | **2E+01** | **6E+00** | **1E+00** | 5E-01 | **2E+01** | **7E+00** | **2E+01** | **7E+00** |
| | **Vanadium** | 1.45E+00 | 2.91E+00 | 4.36E+00 | 4.37E+00 | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **8E+00** | **4E+00** | **1E+01** | **6E+00** | **1E+01** | **6E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.39E+00 | 1.87E+00 | 6.26E+00 | 6.26E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **3E+01** | **4E+01** | **1E+01** | **1E+02** | **5E+01** | **1E+02** | **5E+01** |
| **GBH - mid** | **tPCB-med** | 1.29E-02 | 5.99E+01 | 5.99E+01 | 5.99E+01 | 4.67E-01 | 1.40E+00 | 3E-02 | 9E-03 | **1E+02** | **4E+01** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| | **Barium** | 5.38E-02 | 1.56E+01 | 1.56E+01 | 1.56E+01 | 2.08E+01 | 4.17E+01 | 3E-03 | 1E-03 | 7E-01 | 4E-01 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Chromium** | 1.45E-02 | 1.86E+00 | 1.87E+00 | 1.87E+00 | 2.66E+00 | 2.80E+00 | 5E-03 | 5E-03 | 7E-01 | 7E-01 | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Cobalt** | 2.75E-02 | 4.25E-01 | 4.52E-01 | 4.53E-01 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 6E-02 | 5E-02 | 6E-02 | 6E-02 | 6E-02 | 6E-02 |
| | **Lead** | 9.72E-03 | 1.18E+00 | 1.19E+00 | 1.20E+00 | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 7E-01 | 4E-01 | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| | **Mercury** | 4.88E-05 | 3.07E-02 | 3.07E-02 | 3.08E-02 | 2.27E-02 | 6.80E-02 | 2E-03 | 7E-04 | **1E+00** | 5E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | 1.10E-02 | 6.99E-01 | 7.10E-01 | 7.11E-01 | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | **2E+00** | 1E+00 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **GBH - high** | **tPCB-high** | 1.29E-02 | 5.99E+01 | 5.99E+01 | 5.99E+01 | 4.33E-02 | 1.30E-01 | 3E-01 | 1E-01 | **1E+03** | **5E+02** | **1E+03** | **5E+02** | **1E+03** | **5E+02** |
| **Mink - 1** | **tPCB-mink** | 1.60E-01 | 4.68E+00 | 4.84E+00 | 4.84E+00 | 5.00E-02 | 1.00E-01 | **3E+00** | **2E+00** | **9E+01** | **5E+01** | **1E+02** | **5E+01** | **1E+02** | **5E+01** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.60E-01 | 4.68E+00 | 4.84E+00 | 4.84E+00 | na | 5.00E-02 | **--** | **3E+00** | **--** | **9E+01** | **--** | **1E+02** | **--** | **1E+02** |
| | **Barium** | 6.66E-01 | 1.10E+01 | 1.17E+01 | 1.17E+01 | 5.18E+01 | 1.21E+02 | 1E-02 | 6E-03 | 2E-01 | 9E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 1.79E-01 | 9.52E-01 | 1.13E+00 | 1.13E+00 | 2.40E+00 | 2.82E+00 | 7E-02 | 6E-02 | 4E-01 | 3E-01 | 5E-01 | 4E-01 | 5E-01 | 4E-01 |
| | **Cobalt** | 3.40E-01 | 3.95E-01 | 7.35E-01 | 7.36E-01 | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 5E-02 | 4E-02 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Lead** | 1.20E-01 | 6.45E-01 | 7.65E-01 | 7.72E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 1E-01 | 7E-02 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Mercury** | 6.04E-04 | 7.33E-03 | 7.93E-03 | 7.97E-03 | 7.50E-02 | 1.50E-01 | 8E-03 | 4E-03 | 1E-01 | 5E-02 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Vanadium** | 1.36E-01 | 2.56E-01 | 3.92E-01 | 3.93E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 6E-02 | 3E-02 | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| **Mink - 2** | **tPCB-mink** | 2.18E-02 | 1.16E+01 | 1.16E+01 | 1.16E+01 | 5.00E-02 | 1.00E-01 | 4E-01 | 2E-01 | **2E+02** | **1E+02** | **2E+02** | **1E+02** | **2E+02** | **1E+02** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 2.18E-02 | 1.16E+01 | 1.16E+01 | 1.16E+01 | na | 5.00E-02 | **--** | 4E-01 | **--** | **2E+02** | **--** | **2E+02** | **--** | **2E+02** |
| | **Barium** | 9.08E-02 | 1.18E+01 | 1.19E+01 | 1.19E+01 | 5.18E+01 | 1.21E+02 | 2E-03 | 8E-04 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 2.44E-02 | 1.25E+00 | 1.27E+00 | 1.27E+00 | 2.40E+00 | 2.82E+00 | 1E-02 | 9E-03 | 5E-01 | 4E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Cobalt** | 4.64E-02 | 8.90E-01 | 9.37E-01 | 9.38E-01 | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 1.64E-02 | 2.22E-01 | 2.38E-01 | 2.45E-01 | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 5E-02 | 2E-02 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Mercury** | 8.23E-05 | 4.47E-03 | 4.56E-03 | 4.60E-03 | 7.50E-02 | 1.50E-01 | 1E-03 | 5E-04 | 6E-02 | 3E-02 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Vanadium** | 1.85E-02 | 4.04E-01 | 4.23E-01 | 4.25E-01 | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-01 | 5E-02 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Raccoon - 1** | **tPCB** | 3.94E-01 | 1.14E+00 | 1.54E+00 | 1.54E+00 | 2.30E-01 | 6.80E-01 | **2E+00** | 6E-01 | **5E+00** | **2E+00** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Barium** | 2.55E+00 | 4.63E+00 | 7.19E+00 | 7.20E+00 | 5.18E+01 | 1.21E+02 | 5E-02 | 2E-02 | 9E-02 | 4E-02 | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 2.65E-01 | 6.28E-02 | 3.28E-01 | 3.30E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 9E-02 | 3E-02 | 2E-02 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 1.53E-01 | 8.93E-02 | 2.42E-01 | 2.43E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 2E-02 | 1E-02 | 9E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 3.54E-01 | 9.14E-02 | 4.46E-01 | 4.51E-01 | 4.70E+00 | 8.90E+00 | 8E-02 | 4E-02 | 2E-02 | 1E-02 | 9E-02 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | 3.23E-02 | 1.56E-03 | 3.38E-02 | 3.39E-02 | 7.50E-02 | 1.50E-01 | 4E-01 | 2E-01 | 2E-02 | 1E-02 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | 1.30E-01 | 4.87E-02 | 1.79E-01 | 1.80E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 1E-02 | 6E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Raccoon - 2** | **tPCB** | 3.75E-02 | 3.67E+00 | 3.71E+00 | 3.71E+00 | 2.30E-01 | 6.80E-01 | 2E-01 | 6E-02 | **2E+01** | **5E+00** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Barium** | 1.56E-01 | 8.40E+00 | 8.55E+00 | 8.56E+00 | 5.18E+01 | 1.21E+02 | 3E-03 | 1E-03 | 2E-01 | 7E-02 | 2E-01 | 7E-02 | 2E-01 | 7E-02 |
| | **Chromium** | 4.19E-02 | 6.17E-01 | 6.59E-01 | 6.61E-01 | 2.40E+00 | 2.82E+00 | 2E-02 | 1E-02 | 3E-01 | 2E-01 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Cobalt** | 7.96E-02 | 4.62E-01 | 5.41E-01 | 5.42E-01 | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 6E-02 | 5E-02 | 7E-02 | 5E-02 | 7E-02 | 5E-02 |
| | **Lead** | 2.81E-02 | 1.21E+00 | 1.24E+00 | 1.24E+00 | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 3E-01 | 1E-01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 1.41E-04 | 5.78E-03 | 5.92E-03 | 5.95E-03 | 7.50E-02 | 1.50E-01 | 2E-03 | 9E-04 | 8E-02 | 4E-02 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 3.19E-02 | 4.16E-01 | 4.47E-01 | 4.49E-01 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 1E-01 | 5E-02 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilogram dry weight per kilogram per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-8**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C1**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| Tree Swallow - mid | tPCB-med | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 2.20E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 4.60E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 2.10E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 1.10E+02 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 5.80E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 5.30E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Tree Swallow - high | tPCB-high | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Spotted Sandpiper - 2 - mid | tPCB-med | 1.60E+01 | 1.57E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Barium | 2.20E+02 | 1.21E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Chromium | 4.60E+01 | 1.80E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Cobalt | 2.10E+01 | 1.22E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Lead | 1.10E+02 | 6.73E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Mercury | 5.80E-01 | 4.30E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Vanadium | 5.30E+01 | 1.71E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| Spotted Sandpiper - 2 - high | tPCB-high | 1.60E+01 | 1.57E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| Kingfisher - 1 - mid | tPCB-med | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Barium | 2.20E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Chromium | 4.60E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Cobalt | 2.10E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Lead | 1.10E+02 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Mercury | 5.80E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Vanadium | 5.30E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| Kingfisher - 1 - high | tPCB-high | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| Kingfisher - 2 - mid | tPCB-med | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Barium | 2.20E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Chromium | 4.60E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Cobalt | 2.10E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Lead | 1.10E+02 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Mercury | 5.80E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Vanadium | 5.30E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| Kingfisher - 2 - high | tPCB-high | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| Osprey - mid | tPCB-med | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 2.20E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 4.60E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 2.10E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 1.10E+02 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 5.80E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 5.30E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Osprey - high | tPCB-high | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Bat | tPCB | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 2.20E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 4.60E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 2.10E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 1.10E+02 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 5.80E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 5.30E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Otter | tPCB-mink | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Otter (Alternative TRV) | tPCB-mink | 1.60E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 2.20E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 4.60E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 2.10E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 1.10E+02 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 5.80E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 5.30E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-8**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C1**

**Anniston PCB Site, Anniston, Alabama**

| | | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-8**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C1**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 5.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 5.42E+00 | 5.42E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 2.72E+00 | 2.75E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 3.21E+00 | 3.21E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 6.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 6.82E-02 | 7.07E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 1.62E-01 | 1.76E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 7.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 7.70E-02 | 7.71E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 1.40E-01 | 1.44E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 5.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 5.42E+00 | 5.42E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 2.36E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.12E-01 | 2.66E-05 | 9.84E-01 | 9.84E-01 |
| | **Barium** | 0.00E+00 | 5.34E+00 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 2.06E-02 | 1.77E+01 | 1.78E+01 |
| | **Chromium** | 0.00E+00 | 3.44E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E+00 | 3.06E-03 | 2.16E+00 | 2.17E+00 |
| | **Cobalt** | 0.00E+00 | 3.96E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.73E-01 | 2.07E-03 | 1.46E+00 | 1.47E+00 |
| | **Lead** | 0.00E+00 | 5.34E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.53E+00 | 1.14E-02 | 4.59E+00 | 4.60E+00 |
| | **Mercury** | 0.00E+00 | 2.07E-02 | 0.00E+00 | 2.07E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.86E-02 | 7.31E-05 | 5.99E-02 | 6.00E-02 |
| | **Vanadium** | 0.00E+00 | 2.28E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E+00 | 2.91E-03 | 2.15E+00 | 2.16E+00 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 2.36E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.12E-01 | 2.66E-05 | 9.84E-01 | 9.84E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E+00 | 0.00E+00 | 0.00E+00 | 5.04E-02 | 1.72E-05 | 3.79E+00 | 3.79E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E+00 | 0.00E+00 | 0.00E+00 | 6.93E-01 | 1.33E-02 | 5.89E+00 | 5.90E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 0.00E+00 | 0.00E+00 | 1.45E-01 | 1.98E-03 | 1.90E+00 | 1.90E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 6.62E-02 | 1.34E-03 | 3.11E+00 | 3.11E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 3.47E-01 | 7.40E-03 | 6.73E-01 | 6.80E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.87E-02 | 0.00E+00 | 0.00E+00 | 1.83E-03 | 4.73E-05 | 3.05E-02 | 3.06E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 1.67E-01 | 1.88E-03 | 3.54E-01 | 3.56E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E+00 | 0.00E+00 | 0.00E+00 | 5.04E-02 | 1.72E-05 | 3.79E+00 | 3.79E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-01 | 0.00E+00 | 0.00E+00 | 2.84E+00 | 0.00E+00 | 3.03E-01 | 5.04E-02 | 1.72E-05 | 3.31E+00 | 3.31E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E+00 | 0.00E+00 | 0.00E+00 | 3.95E+00 | 0.00E+00 | 3.47E-01 | 6.93E-01 | 1.33E-02 | 1.10E+01 | 1.10E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.33E+00 | 0.00E+00 | 1.42E-01 | 1.45E-01 | 1.98E-03 | 1.66E+00 | 1.66E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.23E-02 | 6.62E-02 | 1.34E-03 | 2.99E+00 | 2.99E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-02 | 0.00E+00 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 3.25E-02 | 3.47E-01 | 7.40E-03 | 7.25E-01 | 7.33E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.69E-03 | 0.00E+00 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 8.12E-03 | 1.83E-03 | 4.73E-05 | 3.74E-02 | 3.75E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 1.28E-02 | 1.67E-01 | 1.88E-03 | 3.64E-01 | 3.66E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-01 | 0.00E+00 | 0.00E+00 | 2.84E+00 | 0.00E+00 | 3.03E-01 | 5.04E-02 | 1.72E-05 | 3.31E+00 | 3.31E+00 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.54E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 3.54E+00 | 3.54E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 1.04E+00 | 1.05E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 3.22E-01 | 3.23E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 3.21E-02 | 3.28E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 3.86E-02 | 4.21E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.20E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 5.20E-02 | 5.20E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 8.39E-02 | 8.48E-02 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.54E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 3.54E+00 | 3.54E+00 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 4.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 4.00E+00 | 4.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 2.01E+00 | 2.03E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 2.37E+00 | 2.37E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 5.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 5.03E-02 | 5.23E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 1.20E-01 | 1.30E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 5.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 5.69E-02 | 5.69E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 1.03E-01 | 1.06E-01 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-01 | 8.54E-01 | 2.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.94E+00 | 1.94E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-01 | 8.54E-01 | 2.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.94E+00 | 1.94E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 1.17E-01 | 3.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 7.09E-01 | 7.19E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-02 | 1.46E-02 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 2.07E-01 | 2.08E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E-03 | 3.49E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.13E-01 | 2.14E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.15E-03 | 1.64E-03 | 2.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 3.24E-02 | 3.79E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 1.13E-02 | 1.90E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 2.55E-02 | 2.55E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-02 | 1.14E-03 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 3.34E-02 | 3.48E-02 |

**Table E3-8**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C1**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 9E-03 | 9E-03 | 9E-03 | 9E-03 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 2.08E+01 | 4.17E+01 | 9E-01 | 4E-01 | 9E-01 | 4E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 8E-01 | 8E-01 | 8E-01 | 8E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 1E+00 | 5E-01 | 1E+00 | 5E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **8E+01** | **3E+01** | **8E+01** | **3E+01** |
| **Osprey - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 4E-03 | 4E-03 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **8E+01** | **3E+01** | **8E+01** | **3E+01** |
| **Bat** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E+00 | 8E-01 | 1E+00 | 8E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 7E-03 | 5E-03 | 7E-03 | 5E-03 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | **4E+01** | **2E+01** | **4E+01** | **2E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | **4E+01** | **--** | **4E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 7E-03 | 4E-03 | 8E-03 | 4E-03 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 8E-03 | 4E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-9**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| | | | | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate |
| Mourning Dove - mid | tPCB-med | 1.14E+01 | 1.57E-04 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 |
| Mourning Dove - high | tPCB-high | 1.14E+01 | 1.57E-04 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 |
| Blue Jay - mid | tPCB-med | 1.14E+01 | 1.57E-04 | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 |
| Blue Jay - high | tPCB-high | 1.14E+01 | 1.57E-04 | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 |
| Carolina Wren -1 - mid | tPCB-med | 1.14E+01 | 1.57E-04 | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 |
| Carolina Wren - 1 - high | tPCB-high | 1.14E+01 | 1.57E-04 | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 |
| Shrew - 1 | tPCB | 1.14E+01 | 1.57E-04 | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 |
| Deer | tPCB | 1.14E+01 | 1.57E-04 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 |
| Weasel | tPCB | 1.14E+01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 |
| Fox - 1 | tPCB | 1.14E+01 | 1.57E-04 | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 |
| Fox - 2 | tPCB | 1.14E+01 | 1.57E-04 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 |

**Table E3-9**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Terrestrial Receptors** | **COPC** | **Terrestrial Plants** | **Terrestrial Insects** | **Worms** | **Terrestrial Spiders/Detritivores** | **Small Mammals** | **Soil** | **Water** | **Soil + Prey** | **Soil + Prey + Water** | **NOAEL TRV** | **LOAEL TRV** | **NOAEL HQ (excluding water)** | **LOAEL HQ (excluding water)** | **NOAEL HQ (including water)** | **LOAEL HQ (including water)** |
| **Mourning Dove - mid** | **tPCB-med** | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.23E-01 | 1.88E-05 | 2.60E-01 | 2.60E-01 | 4.67E-01 | 1.40E+00 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| **Mourning Dove - high** | **tPCB-high** | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.23E-01 | 1.88E-05 | 2.60E-01 | 2.60E-01 | 4.33E-02 | 1.30E-01 | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| **Blue Jay - mid** | **tPCB-med** | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 2.44E-01 | 2.04E-05 | 1.04E+00 | 1.04E+00 | 4.67E-01 | 1.40E+00 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| **Blue Jay - high** | **tPCB-high** | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 2.44E-01 | 2.04E-05 | 1.04E+00 | 1.04E+00 | 4.33E-02 | 1.30E-01 | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 3.88E-01 | 4.23E-05 | 5.47E+00 | 5.47E+00 | 4.67E-01 | 1.40E+00 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 3.88E-01 | 4.23E-05 | 5.47E+00 | 5.47E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Shrew - 1** | **tPCB** | 3.94E-03 | 3.13E-03 | 2.14E+00 | 1.47E+00 | 0.00E+00 | 4.36E-02 | 2.35E-05 | 3.66E+00 | 3.66E+00 | 2.30E-01 | 6.80E-01 | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| **Deer** | **tPCB** | 3.77E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-03 | 1.03E-05 | 7.10E-03 | 7.11E-03 | 2.30E-01 | 6.80E-01 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Weasel** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.77E-01 | 2.90E-02 | 1.72E-05 | 4.06E-01 | 4.06E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| **Fox - 1** | **tPCB** | 1.65E-03 | 0.00E+00 | 6.84E-02 | 0.00E+00 | 1.90E-01 | 1.21E-02 | 1.33E-05 | 2.72E-01 | 2.72E-01 | 2.30E-01 | 6.80E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| **Fox - 2** | **tPCB** | 4.87E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-01 | 1.21E-02 | 1.33E-05 | 2.41E-01 | 2.41E-01 | 2.30E-01 | 6.80E-01 | 1E+00 | 4E-01 | 1E+00 | 4E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilogram dry weight per kilogram per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotient greater than 1**

**Table E3-10**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C1, Subarea Soil - West**

**Anniston PCB Site, Anniston, Alabama**

| | | | | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate |
| **Mourning Dove - mid** | **tPCB-med** | **2.07E+02** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 |
| **Mourning Dove - high** | **tPCB-high** | **2.07E+02** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 |
| **Blue Jay - mid** | **tPCB-med** | **2.07E+02** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 |
| **Blue Jay - high** | **tPCB-high** | **2.07E+02** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **2.07E+02** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **2.07E+02** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 |
| **Shrew - 1** | **tPCB** | **2.07E+02** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 |
| **Deer** | **tPCB** | **2.07E+02** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 |
| **Weasel** | **tPCB** | **2.07E+02** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 |
| **Fox - 1** | **tPCB** | **2.07E+02** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 |
| **Fox - 2** | **tPCB** | **2.07E+02** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 |

**Table E3-10**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C1, Subarea Soil - West**

**Anniston PCB Site, Anniston, Alabama**

| | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Terrestrial Receptors** | **COPC** | **Terrestrial Plants** | **Terrestrial Insects** | **Worms** | **Terrestrial Spiders/Detritivores** | **Small Mammals** | **Soil** | **Water** | **Soil + Prey** | **Soil + Prey + Water** | **NOAEL TRV** | **LOAEL TRV** | **NOAEL HQ (excluding water)** | **LOAEL HQ (excluding water)** | **NOAEL HQ (including water)** | **LOAEL HQ (including water)** |
| **Mourning Dove - mid** | **tPCB-med** | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.05E+00 | 1.88E-05 | 4.09E+00 | 4.09E+00 | 4.67E-01 | 1.40E+00 | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| **Mourning Dove - high** | **tPCB-high** | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.05E+00 | 1.88E-05 | 4.09E+00 | 4.09E+00 | 4.33E-02 | 1.30E-01 | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Blue Jay - mid** | **tPCB-med** | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 4.42E+00 | 2.04E-05 | 5.21E+00 | 5.21E+00 | 4.67E-01 | 1.40E+00 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Blue Jay - high** | **tPCB-high** | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 4.42E+00 | 2.04E-05 | 5.21E+00 | 5.21E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 7.05E+00 | 4.23E-05 | 1.21E+01 | 1.21E+01 | 4.67E-01 | 1.40E+00 | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 7.05E+00 | 4.23E-05 | 1.21E+01 | 1.21E+01 | 4.33E-02 | 1.30E-01 | **3E+02** | **9E+01** | **3E+02** | **9E+01** |
| **Shrew - 1** | **tPCB** | 3.94E-03 | 3.13E-03 | 2.14E+00 | 1.47E+00 | 0.00E+00 | 7.92E-01 | 2.35E-05 | 4.41E+00 | 4.41E+00 | 2.30E-01 | 6.80E-01 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| **Deer** | **tPCB** | 3.77E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.05E-02 | 1.03E-05 | 6.43E-02 | 6.43E-02 | 2.30E-01 | 6.80E-01 | 3E-01 | 9E-02 | 3E-01 | 9E-02 |
| **Weasel** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.77E-01 | 5.27E-01 | 1.72E-05 | 9.04E-01 | 9.04E-01 | 2.30E-01 | 6.80E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Fox - 1** | **tPCB** | 1.65E-03 | 0.00E+00 | 6.84E-02 | 0.00E+00 | 1.90E-01 | 2.19E-01 | 1.33E-05 | 4.79E-01 | 4.79E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| **Fox - 2** | **tPCB** | 4.87E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-01 | 2.19E-01 | 1.33E-05 | 4.48E-01 | 4.48E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilogram dry weight per kilogram per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotient greater than 1**

**Table E3-11**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| | | | | | Percent Diet (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.14E+01** | **1.60E+01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.14E+01** | **1.60E+01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.14E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.14E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.14E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **1.14E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-11**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| | | Percent Diet (%) | | | | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Reptiles** | **Amphibians** | **Soil** | **Sediment** | **Aquatic Plants** | **Terrestrial Plants** | **Benthic Invertebrates (odonata larvae)** | **Soil Invertebrates (Worms / Spiders / Detritivores)** | **Aquatic Emergent Insects** | **Terrestrial Insects** | **Terrestrial Spiders / Detritivores** | **Riparian Spiders / Detritivores** | **Small mammals/birds** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| **Hawk - mid** | **tPCB-med** | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| **Hawk - high** | **tPCB-high** | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| **Raccoon - 1** | **tPCB** | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| **Shrew - 2** | **tPCB** | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |

**Table E3-11**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| | | Measured Tissue (mg/kg dry weight) | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Fish (all sizes)** | **Predator Fish** | **Forage Fish** | **Reptiles** | **Amphibians** | **Body Weight (kg)** | **Food Ingestion Rate** | **Soil Ingestion** | **Sediment Ingestion Rate** | **Water Ingestion Rate** | **Aquatic Plants** | **Terrestrial Plants** | **Benthic Invertebrates (odonata larvae)** | **Soil Invertebrates (worms)** | **Aquatic Emergent Insects** | **Terrestrial Insects** | **Terrestrial Spiders / Detritivores** |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 3.03E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 2.58E-04 | 1.21E-01 |
| **Shrew - 2** | **tPCB** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.58E-03 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 2.15E-03 | 1.01E+00 |

**Table E3-11**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Riparian Spiders / Detritivores** | **Small mammals/birds** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** | **Fish (all sizes)** | **Predator Fish** | **Forage Fish** | **Reptiles** | **Amphibians** | **Soil** | **Sediment** | **Water** | **Soil + Prey** | **Sediment + Prey** | **Soil + Sediment + Prey** | **Soil + Sediment + Prey + Water** |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.88E-01 | 0.00E+00 | 4.23E-05 | 2.05E+00 | 3.43E+00 | 5.48E+00 | 5.48E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.88E-01 | 0.00E+00 | 4.23E-05 | 2.05E+00 | 3.43E+00 | 5.48E+00 | 5.48E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E+00 | 0.00E+00 | 5.20E-02 | 7.30E-02 | 8.93E-06 | 4.95E-01 | 1.81E+00 | 2.30E+00 | 2.30E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E+00 | 0.00E+00 | 5.20E-02 | 7.30E-02 | 8.93E-06 | 4.95E-01 | 1.81E+00 | 2.30E+00 | 2.30E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 9.04E-03 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 2.96E-02 | 0.00E+00 | 0.00E+00 | 8.93E-02 | 3.09E-02 | 2.87E-02 | 0.00E+00 | 1.30E-05 | 2.83E-01 | 1.63E-01 | 4.46E-01 | 4.46E-01 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 4.06E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-01 | 4.91E-02 | 4.36E-02 | 6.13E-02 | 2.35E-05 | 3.47E+00 | 3.23E-01 | 3.79E+00 | 3.79E+00 |

**Table E3-11**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **NOAEL TRV** | **LOAEL TRV** | **Soil NOAEL HQ (excluding water)** | **Soil LOAEL HQ (excluding water)** | **Sediment NOAEL HQ (excluding water)** | **Sediment LOAEL HQ (excluding water)** | **NOAEL HQ (excluding water)** | **LOAEL HQ (excluding water)** | **NOAEL HQ (including water)** | **LOAEL HQ (including water)** |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **4E+00** | **1E+00** | **7E+00** | **2E+00** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **5E+01** | **2E+01** | **8E+01** | **3E+01** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Hawk - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | **4E+00** | **1E+00** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Hawk - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+01** | **4E+00** | **4E+01** | **1E+01** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **1E+00** | 4E-01 | 7E-01 | 2E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| **Shrew - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+01** | **5E+00** | **1E+00** | 5E-01 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-12**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - West**

**Anniston PCB Site, Anniston, Alabama**

| | | | | | Percent Diet (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **2.07E+02** | **1.60E+01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **2.07E+02** | **1.60E+01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **2.07E+02** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **2.07E+02** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **2.07E+02** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **2.07E+02** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-12**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - West**

**Anniston PCB Site, Anniston, Alabama**

| | | Percent Diet (%) | | | | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Reptiles** | **Amphibians** | **Soil** | **Sediment** | **Aquatic Plants** | **Terrestrial Plants** | **Benthic Invertebrates (odonata larvae)** | **Soil Invertebrates (Worms / Spiders / Detritivores)** | **Aquatic Emergent Insects** | **Terrestrial Insects** | **Terrestrial Spiders / Detritivores** | **Riparian Spiders / Detritivores** | **Small mammals/birds** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| **Hawk - mid** | **tPCB-med** | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| **Hawk - high** | **tPCB-high** | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| **Raccoon - 1** | **tPCB** | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| **Shrew - 2** | **tPCB** | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |

**Table E3-12**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - West**

**Anniston PCB Site, Anniston, Alabama**

| | | Measured Tissue (mg/kg dry weight) | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores |
| Carolina Wren - 2 - mid | tPCB-med | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 |
| Carolina wren - 2 - high | tPCB-high | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 |
| Hawk - mid | tPCB-med | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hawk - high | tPCB-high | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 3.03E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 2.58E-04 | 1.21E-01 |
| Shrew - 2 | tPCB | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.58E-03 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 2.15E-03 | 1.01E+00 |

**Table E3-12**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - West**

**Anniston PCB Site, Anniston, Alabama**

| | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Riparian Spiders / Detritivores** | **Small mammals/birds** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** | **Fish (all sizes)** | **Predator Fish** | **Forage Fish** | **Reptiles** | **Amphibians** | **Soil** | **Sediment** | **Water** | **Soil + Prey** | **Sediment + Prey** | **Soil + Sediment + Prey** | **Soil + Sediment + Prey + Water** |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 0.00E+00 | 4.23E-05 | 8.71E+00 | 3.43E+00 | 1.21E+01 | 1.21E+01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 0.00E+00 | 4.23E-05 | 8.71E+00 | 3.43E+00 | 1.21E+01 | 1.21E+01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E+00 | 0.00E+00 | 9.44E-01 | 7.30E-02 | 8.93E-06 | 1.39E+00 | 1.81E+00 | 3.19E+00 | 3.19E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E+00 | 0.00E+00 | 9.44E-01 | 7.30E-02 | 8.93E-06 | 1.39E+00 | 1.81E+00 | 3.19E+00 | 3.19E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 9.04E-03 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 2.96E-02 | 0.00E+00 | 0.00E+00 | 8.93E-02 | 3.09E-02 | 5.21E-01 | 0.00E+00 | 1.30E-05 | 7.75E-01 | 1.63E-01 | 9.38E-01 | 9.38E-01 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 4.06E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-01 | 4.91E-02 | 7.92E-01 | 6.13E-02 | 2.35E-05 | 4.22E+00 | 3.23E-01 | 4.54E+00 | 4.54E+00 |

**Table E3-12**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C1, Subarea Soil - West**

**Anniston PCB Site, Anniston, Alabama**

| | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **NOAEL TRV** | **LOAEL TRV** | **Soil NOAEL HQ (excluding water)** | **Soil LOAEL HQ (excluding water)** | **Sediment NOAEL HQ (excluding water)** | **Sediment LOAEL HQ (excluding water)** | **NOAEL HQ (excluding water)** | **LOAEL HQ (excluding water)** | **NOAEL HQ (including water)** | **LOAEL HQ (including water)** |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **2E+01** | **6E+00** | **7E+00** | **2E+00** | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **2E+02** | **7E+01** | **8E+01** | **3E+01** | **3E+02** | **9E+01** | **3E+02** | **9E+01** |
| **Hawk - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **3E+00** | 1E+00 | **4E+00** | **1E+00** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| **Hawk - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **3E+01** | **1E+01** | **4E+01** | **1E+01** | **7E+01** | **2E+01** | **7E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **3E+00** | **1E+00** | 7E-01 | 2E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Shrew - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+01** | **6E+00** | **1E+00** | 5E-01 | **2E+01** | **7E+00** | **2E+01** | **7E+00** |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-13**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C1, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | | | | Percent Diet (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.45E+02** | **2.20E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.75E+01** | **4.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.04E+01** | **2.10E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.65E+01** | **1.10E+02** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.81E+00** | **5.80E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **5.30E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| | **Barium** | **1.45E+02** | **2.20E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| | **Chromium** | **2.75E+01** | **4.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| | **Cobalt** | **1.04E+01** | **2.10E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| | **Lead** | **5.65E+01** | **1.10E+02** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| | **Mercury** | **2.81E+00** | **5.80E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **5.30E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.45E+02** | **2.20E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.75E+01** | **4.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.04E+01** | **2.10E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.65E+01** | **1.10E+02** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.81E+00** | **5.80E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **5.30E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.45E+02** | **2.20E+02** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.75E+01** | **4.60E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.04E+01** | **2.10E+01** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.65E+01** | **1.10E+02** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.81E+00** | **5.80E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **5.30E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| | **Barium** | **1.45E+02** | **2.20E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| | **Chromium** | **2.75E+01** | **4.60E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| | **Cobalt** | **1.04E+01** | **2.10E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| | **Lead** | **5.65E+01** | **1.10E+02** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| | **Mercury** | **2.81E+00** | **5.80E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **5.30E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | **1.02E+01** | **1.60E+01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 |
| | **Barium** | **1.45E+02** | **2.20E+02** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 |
| | **Chromium** | **2.75E+01** | **4.60E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 |
| | **Cobalt** | **1.04E+01** | **2.10E+01** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 |
| | **Lead** | **5.65E+01** | **1.10E+02** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 |
| | **Mercury** | **2.81E+00** | **5.80E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **5.30E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 |

**Table E3-13**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C1, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Percent Diet (%) | | | | | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| **Mink - 1** | **tPCB-mink** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| | **Barium** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 |
| | **Chromium** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 |
| | **Cobalt** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 |
| | **Lead** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 |
| | **Mercury** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 |
| | **Vanadium** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 |
| **Mink - 2** | **tPCB-mink** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| | **Barium** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 |
| | **Chromium** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 |
| | **Cobalt** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 |
| | **Lead** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 |
| | **Mercury** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 |
| | **Vanadium** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| | **Barium** | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 |
| | **Chromium** | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 |
| | **Cobalt** | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 |
| | **Lead** | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 |
| | **Mercury** | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 |
| | **Vanadium** | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 |

**Table E3-13**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C1, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Measured Tissue (mg/kg dry weight) | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.36E-01 | 4.02E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E+00 | 2.04E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 1.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.96E-01 | 5.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 1.03E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.07E-02 | 4.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.28E-01 | 8.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.36E-01 | 4.02E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-02 |
| | **Barium** | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 |
| | **Chromium** | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-03 |
| | **Cobalt** | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 |
| | **Lead** | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.35E-03 |
| | **Mercury** | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.24E-05 |
| | **Vanadium** | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 |
| **GBH - high** | **tPCB-high** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-02 |
| **Mink - 1** | **tPCB-mink** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 |
| | **Barium** | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.45E-01 |
| | **Chromium** | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 |
| | **Cobalt** | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 |
| | **Lead** | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-01 |
| | **Mercury** | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-03 |
| | **Vanadium** | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 |
| **Mink - 2** | **tPCB-mink** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-02 |
| | **Barium** | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 |
| | **Chromium** | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-02 |
| | **Cobalt** | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 |
| | **Lead** | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-02 |
| | **Mercury** | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.25E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-04 |
| | **Vanadium** | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 9.62E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-02 |
| **Raccoon - 1** | **tPCB** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 3.03E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 2.58E-04 | 1.21E-01 | 0.00E+00 | 9.04E-03 |
| | **Barium** | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 |
| | **Chromium** | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 |
| | **Cobalt** | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 |
| | **Lead** | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 |
| | **Mercury** | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 1.50E-02 | 0.00E+00 | 1.01E-04 | 1.50E-02 | 0.00E+00 | 6.65E-05 |
| | **Vanadium** | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 |
| **Raccoon - 2** | **tPCB** | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 4.46E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-02 |
| | **Barium** | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-01 |
| | **Chromium** | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-02 |
| | **Cobalt** | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-02 |
| | **Lead** | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-02 |
| | **Mercury** | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.92E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-04 |
| | **Vanadium** | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 8.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 |

**Table E3-13**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C1, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| Spotted Sandpiper - 1 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-01 | 2.56E-01 | 2.66E-05 | 4.18E+00 | 4.92E-01 | 4.68E+00 | 4.68E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.33E+00 | 3.53E+00 | 2.06E-02 | 2.27E+01 | 8.87E+00 | 3.16E+01 | 3.16E+01 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.41E-01 | 7.37E-01 | 3.06E-03 | 2.17E+00 | 1.08E+00 | 3.25E+00 | 3.25E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E-01 | 3.36E-01 | 2.07E-03 | 6.73E-01 | 7.32E-01 | 1.40E+00 | 1.41E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.06E-01 | 1.76E+00 | 1.14E-02 | 1.12E+01 | 2.30E+00 | 1.35E+01 | 1.35E+01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.50E-02 | 9.29E-03 | 7.31E-05 | 5.42E-01 | 2.99E-02 | 5.72E-01 | 5.72E-01 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-01 | 8.49E-01 | 2.91E-03 | 1.16E+00 | 1.08E+00 | 2.24E+00 | 2.24E+00 |
| Spotted Sandpiper - 1 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-01 | 2.56E-01 | 2.66E-05 | 4.18E+00 | 4.92E-01 | 4.68E+00 | 4.68E+00 |
| GBH - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 6.69E-03 | 8.29E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-01 | 0.00E+00 | 5.63E-02 | 7.05E-06 | 1.12E-02 | 8.63E+00 | 8.64E+00 | 8.64E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 3.51E-01 | 2.45E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 7.75E-01 | 5.45E-03 | 7.65E-02 | 3.88E+00 | 3.96E+00 | 3.96E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 2.44E-03 | 7.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 1.62E-01 | 8.10E-04 | 8.25E-03 | 1.05E+00 | 1.05E+00 | 1.05E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 3.52E-02 | 7.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 7.40E-02 | 5.49E-04 | 2.75E-02 | 1.95E-01 | 2.23E-01 | 2.23E-01 |
| | Lead | 0.00E+00 | 0.00E+00 | 5.78E-03 | 9.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 0.00E+00 | 3.87E-01 | 3.03E-03 | 9.35E-03 | 5.13E-01 | 5.22E-01 | 5.25E-01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 3.35E-04 | 1.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.26E-03 | 0.00E+00 | 2.04E-03 | 1.94E-05 | 8.24E-05 | 1.31E-01 | 1.32E-01 | 1.32E-01 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 2.44E-03 | 1.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 1.87E-01 | 7.70E-04 | 1.10E-02 | 3.97E-01 | 4.08E-01 | 4.09E-01 |
| GBH - high | tPCB-high | 0.00E+00 | 0.00E+00 | 6.69E-03 | 8.29E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-01 | 0.00E+00 | 5.63E-02 | 7.05E-06 | 1.12E-02 | 8.63E+00 | 8.64E+00 | 8.64E+00 |
| Mink - 1 | tPCB-mink | 0.00E+00 | 0.00E+00 | 1.69E-02 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 0.00E+00 | 4.94E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.38E-01 | 7.58E-01 | 8.96E-01 | 8.96E-01 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 1.69E-02 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 0.00E+00 | 4.94E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.38E-01 | 7.58E-01 | 8.96E-01 | 8.96E-01 |
| | Barium | 0.00E+00 | 0.00E+00 | 8.87E-01 | 0.00E+00 | 0.00E+00 | 3.42E-01 | 0.00E+00 | 5.66E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 9.45E-01 | 1.80E+00 | 2.74E+00 | 2.75E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 2.32E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.02E-01 | 3.54E-01 | 4.56E-01 | 4.58E-01 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 2.00E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 3.10E-01 | 6.50E-01 | 6.51E-01 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.46E-02 | 0.00E+00 | 0.00E+00 | 2.15E-02 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.16E-01 | 8.91E-02 | 2.05E-01 | 2.11E-01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 8.46E-04 | 0.00E+00 | 0.00E+00 | 1.89E-03 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 1.02E-03 | 1.60E-02 | 1.70E-02 | 1.71E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 0.00E+00 | 2.08E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 3.93E-02 | 1.75E-01 | 1.77E-01 |
| Mink - 2 | tPCB-mink | 0.00E+00 | 0.00E+00 | 7.52E-03 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 5.71E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.89E-02 | 1.08E+00 | 1.09E+00 | 1.09E+00 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 7.52E-03 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 5.71E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.89E-02 | 1.08E+00 | 1.09E+00 | 1.09E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 3.94E-01 | 0.00E+00 | 0.00E+00 | 1.40E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.29E-01 | 1.90E+00 | 2.02E+00 | 2.04E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 4.73E-01 | 0.00E+00 | 2.68E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.39E-02 | 5.04E-01 | 5.18E-01 | 5.19E-01 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.80E-01 | 9.27E-01 | 9.28E-01 |
| | Lead | 0.00E+00 | 0.00E+00 | 6.50E-03 | 0.00E+00 | 0.00E+00 | 8.80E-02 | 0.00E+00 | 6.11E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.58E-02 | 1.04E-01 | 1.20E-01 | 1.27E-01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 3.76E-04 | 0.00E+00 | 0.00E+00 | 7.74E-03 | 0.00E+00 | 1.53E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 1.39E-04 | 9.69E-03 | 9.83E-03 | 9.87E-03 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 5.05E-02 | 0.00E+00 | 2.40E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 5.66E-02 | 7.52E-02 | 7.69E-02 |
| Raccoon - 1 | tPCB | 0.00E+00 | 0.00E+00 | 1.33E-02 | 2.96E-02 | 0.00E+00 | 0.00E+00 | 8.93E-02 | 3.09E-02 | 2.58E-02 | 0.00E+00 | 1.30E-05 | 2.80E-01 | 1.63E-01 | 4.43E-01 | 4.43E-01 |
| | Barium | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 3.66E-01 | 0.00E+00 | 1.00E-02 | 4.64E+00 | 7.44E-01 | 5.38E+00 | 5.39E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 6.93E-02 | 0.00E+00 | 1.49E-03 | 2.28E-01 | 2.69E-02 | 2.55E-01 | 2.57E-01 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.63E-02 | 0.00E+00 | 1.01E-03 | 1.33E-01 | 8.34E-02 | 2.16E-01 | 2.17E-01 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 1.43E-01 | 0.00E+00 | 5.59E-03 | 7.73E-01 | 1.55E-02 | 7.88E-01 | 7.94E-01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 6.63E-04 | 4.34E-04 | 0.00E+00 | 0.00E+00 | 4.69E-04 | 8.30E-04 | 7.08E-03 | 0.00E+00 | 3.57E-05 | 3.79E-02 | 2.40E-03 | 4.03E-02 | 4.03E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 5.10E-02 | 0.00E+00 | 1.42E-03 | 1.12E-01 | 1.17E-02 | 1.24E-01 | 1.25E-01 |
| Raccoon - 2 | tPCB | 2.14E-03 | 4.99E-02 | 1.33E-02 | 3.09E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-01 | 0.00E+00 | 4.03E-02 | 1.30E-05 | 3.24E-02 | 5.43E-01 | 5.75E-01 | 5.75E-01 |
| | Barium | 4.83E-02 | 1.19E-01 | 6.95E-01 | 9.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 5.55E-01 | 1.00E-02 | 2.21E-01 | 1.97E+00 | 2.19E+00 | 2.20E+00 |
| | Chromium | 3.11E-03 | 4.68E-02 | 4.84E-03 | 2.81E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-02 | 0.00E+00 | 1.16E-01 | 1.49E-03 | 2.39E-02 | 2.71E-01 | 2.95E-01 | 2.97E-01 |
| | Cobalt | 3.58E-03 | 1.35E-02 | 6.97E-02 | 2.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-03 | 0.00E+00 | 5.30E-02 | 1.01E-03 | 7.96E-02 | 3.06E-01 | 3.86E-01 | 3.87E-01 |
| | Lead | 4.83E-03 | 1.56E-02 | 1.15E-02 | 3.38E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 2.77E-01 | 5.59E-03 | 2.71E-02 | 3.58E-01 | 3.85E-01 | 3.91E-01 |
| | Mercury | 1.87E-04 | 1.02E-03 | 6.63E-04 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.32E-03 | 0.00E+00 | 1.46E-03 | 3.57E-05 | 2.39E-04 | 1.16E-02 | 1.18E-02 | 1.19E-02 |
| | Vanadium | 2.06E-03 | 6.56E-03 | 4.84E-03 | 7.33E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-03 | 0.00E+00 | 1.34E-01 | 1.42E-03 | 3.19E-02 | 1.69E-01 | 2.00E-01 | 2.02E-01 |

**Table E3-13**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C1, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **9E+00** | **3E+00** | **1E+00** | 4E-01 | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | **1E+00** | 5E-01 | 4E-01 | 2E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 8E-01 | 8E-01 | 4E-01 | 4E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 9E-02 | 9E-02 | 1E-01 | 9E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **7E+00** | **3E+00** | **1E+00** | 7E-01 | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **2E+01** | **8E+00** | **1E+00** | 4E-01 | **3E+01** | **8E+00** | **3E+01** | **8E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **3E+00** | **2E+00** | **7E+00** | **3E+00** | **7E+00** | **3E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+02** | **3E+01** | **1E+01** | **4E+00** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **GBH - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 2E-02 | 8E-03 | **2E+01** | **6E+00** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 4E-03 | 2E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 | 2E-01 | 1E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 4E-01 | 4E-01 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 3E-02 | 3E-02 | 3E-02 | 3E-02 | 3E-02 | 3E-02 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 3E-01 | 2E-01 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 4E-03 | 1E-03 | **6E+00** | **2E+00** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | **1E+00** | 6E-01 | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **GBH - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | 3E-01 | 9E-02 | **2E+02** | **7E+01** | **2E+02** | **7E+01** | **2E+02** | **7E+01** |
| **Mink - 1** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | **3E+00** | **1E+00** | **2E+01** | **8E+00** | **2E+01** | **9E+00** | **2E+01** | **9E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | -- | **3E+00** | -- | **2E+01** | -- | **2E+01** | -- | **2E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-02 | 8E-03 | 3E-02 | 1E-02 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 4E-02 | 4E-02 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 | 6E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 1E-02 | 7E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 5E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Mink - 2** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | 4E-01 | 2E-01 | **2E+01** | **1E+01** | **2E+01** | **1E+01** | **2E+01** | **1E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | -- | 4E-01 | -- | **2E+01** | -- | **2E+01** | -- | **2E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 6E-03 | 5E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 2E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 2E-03 | 9E-04 | 1E-01 | 6E-02 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **1E+00** | 4E-01 | 7E-01 | 2E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-01 | 8E-02 | 1E-02 | 1E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-01 | 9E-02 | 3E-03 | 2E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 5E-01 | 3E-01 | 3E-02 | 2E-02 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 1E-02 | 3E-02 | 2E-02 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | 1E-01 | 5E-02 | **2E+00** | 8E-01 | **3E+00** | 8E-01 | **3E+00** | 8E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 4E-03 | 2E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-02 | 8E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 5E-02 | 4E-02 | 5E-02 | 4E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 8E-02 | 4E-02 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 4E-02 | 2E-02 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-14**

**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**

**Reach C1, Subarea Soil - East**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values (mg/kg dw) | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **1.14E+01** | **1.60E+01** | 1.00E+01 | 1.24E-01 | NA | 1.24E-01 | 4.96E+00 | -- | 4.96E+00 | 2.80E+01 | 6.60E+01 | 2E-01 | 8E-02 | **--** | **--** | 2E-01 | 8E-02 |
| **Mourning Dove - high** | **tPCB-high** | **1.14E+01** | **1.60E+01** | 1.00E+01 | 1.24E-01 | NA | 1.24E-01 | 4.96E+00 | -- | 4.96E+00 | 2.10E+00 | 4.50E+00 | **2E+00** | **1E+00** | **--** | **--** | **2E+00** | **1E+00** |
| **Blue Jay - mid** | **tPCB-med** | **1.14E+01** | **1.60E+01** | 1.00E+01 | 1.61E-01 | NA | 1.61E-01 | 6.45E+00 | -- | 6.45E+00 | 2.80E+01 | 6.60E+01 | 2E-01 | 1E-01 | **--** | **--** | 2E-01 | 1E-01 |
| **Blue Jay - high** | **tPCB-high** | **1.14E+01** | **1.60E+01** | 1.00E+01 | 1.61E-01 | NA | 1.61E-01 | 6.45E+00 | -- | 6.45E+00 | 2.10E+00 | 4.50E+00 | **3E+00** | **1E+00** | **--** | **--** | **3E+00** | **1E+00** |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **1.14E+01** | **1.60E+01** | 1.00E+01 | 1.33E-01 | NA | 1.33E-01 | 5.33E+00 | -- | 5.33E+00 | 2.80E+01 | 6.60E+01 | 2E-01 | 8E-02 | **--** | **--** | 2E-01 | 8E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.14E+01** | **1.60E+01** | 1.00E+01 | 1.33E-01 | NA | 1.33E-01 | 5.33E+00 | -- | 5.33E+00 | 2.10E+00 | 4.50E+00 | **3E+00** | **1E+00** | **--** | **--** | **3E+00** | **1E+00** |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.14E+01** | **1.60E+01** | 1.00E+01 | 5.07E-02 | 1.17E-01 | 1.68E-01 | 2.03E+00 | 4.68E+00 | 6.71E+00 | 2.80E+01 | 6.60E+01 | 7E-02 | 3E-02 | 2E-01 | 7E-02 | 2E-01 | 1E-01 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **1.14E+01** | **1.60E+01** | 1.00E+01 | 5.07E-02 | 1.17E-01 | 1.68E-01 | 2.03E+00 | 4.68E+00 | 6.71E+00 | 2.10E+00 | 4.50E+00 | 1E+00 | 5E-01 | **2E+00** | 1E+00 | **3E+00** | **1E+00** |
| **Hawk - mid** | **tPCB-med** | **1.14E+01** | **1.60E+01** | 1.00E+01 | 6.55E-01 | 1.53E+01 | 1.60E+01 | 2.62E+01 | 6.14E+02 | 6.40E+02 | 2.80E+01 | 6.60E+01 | 9E-01 | 4E-01 | **2E+01** | **9E+00** | **2E+01** | **1E+01** |
| **Hawk - high** | **tPCB-high** | **1.14E+01** | **1.60E+01** | 1.00E+01 | 6.55E-01 | 1.53E+01 | 1.60E+01 | 2.62E+01 | 6.14E+02 | 6.40E+02 | 2.10E+00 | 4.50E+00 | **1E+01** | **6E+00** | **3E+02** | **1E+02** | **3E+02** | **1E+02** |

**Notes:**

COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-15**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C1, Subarea Soil - West**
**Anniston PCB Site, Anniston, Alabama**

| | | | | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values (mg/kg dw) | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| **Terrestrial Receptors** | **COPC** | **Soil EPC** | **Sediment EPC** | **Bird Egg Tco (d/kg ww)** | **Soil Dietary Intake (mg/d)** | **Sediment Dietary Intake (mg/d)** | **Total Dietary Intake (mg/d)** | **EPC from Soil** | **EPC from Sediment** | **Total EPC** | **Bird Egg NOAEL** | **Bird Egg LOAEL** | **SOIL Bird Egg NOAEL** | **SOIL Bird Egg LOAEL** | **SEDIMENT Bird Egg NOAEL** | **SEDIMENT Bird Egg LOAEL** | **Bird Egg NOAEL** | **Bird Egg LOAEL** |
| **Mourning Dove - mid** | **tPCB-med** | **2.07E+02** | **1.60E+01** | 1.00E+01 | 2.22E+00 | NA | 2.22E+00 | 8.87E+01 | -- | 8.87E+01 | 2.80E+01 | 6.60E+01 | **3E+00** | **1E+00** | **--** | **--** | **3E+00** | **1E+00** |
| **Mourning Dove - high** | **tPCB-high** | **2.07E+02** | **1.60E+01** | 1.00E+01 | 2.22E+00 | NA | 2.22E+00 | 8.87E+01 | -- | 8.87E+01 | 2.10E+00 | 4.50E+00 | **4E+01** | **2E+01** | **--** | **--** | **4E+01** | **2E+01** |
| **Blue Jay - mid** | **tPCB-med** | **2.07E+02** | **1.60E+01** | 1.00E+01 | 2.92E+00 | NA | 2.92E+00 | 1.17E+02 | -- | 1.17E+02 | 2.80E+01 | 6.60E+01 | **4E+00** | **2E+00** | **--** | **--** | **4E+00** | **2E+00** |
| **Blue Jay - high** | **tPCB-high** | **2.07E+02** | **1.60E+01** | 1.00E+01 | 2.92E+00 | NA | 2.92E+00 | 1.17E+02 | -- | 1.17E+02 | 2.10E+00 | 4.50E+00 | **6E+01** | **3E+01** | **--** | **--** | **6E+01** | **3E+01** |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **2.07E+02** | **1.60E+01** | 1.00E+01 | 2.44E+00 | NA | 2.44E+00 | 9.75E+01 | -- | 9.75E+01 | 2.80E+01 | 6.60E+01 | **3E+00** | **1E+00** | **--** | **--** | **3E+00** | **1E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **2.07E+02** | **1.60E+01** | 1.00E+01 | 2.44E+00 | NA | 2.44E+00 | 9.75E+01 | -- | 9.75E+01 | 2.10E+00 | 4.50E+00 | **5E+01** | **2E+01** | **--** | **--** | **5E+01** | **2E+01** |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **2.07E+02** | **1.60E+01** | 1.00E+01 | 9.27E-01 | 1.17E-01 | 1.04E+00 | 3.71E+01 | 4.68E+00 | 4.18E+01 | 2.80E+01 | 6.60E+01 | **1E+00** | 6E-01 | 2E-01 | 7E-02 | **1E+00** | 6E-01 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **2.07E+02** | **1.60E+01** | 1.00E+01 | 9.27E-01 | 1.17E-01 | 1.04E+00 | 3.71E+01 | 4.68E+00 | 4.18E+01 | 2.10E+00 | 4.50E+00 | **2E+01** | **8E+00** | **2E+00** | 1E+00 | **2E+01** | **9E+00** |
| **Hawk - mid** | **tPCB-med** | **2.07E+02** | **1.60E+01** | 1.00E+01 | 3.94E+00 | 1.53E+01 | 1.93E+01 | 1.57E+02 | 6.14E+02 | 7.71E+02 | 2.80E+01 | 6.60E+01 | **6E+00** | **2E+00** | **2E+01** | **9E+00** | **3E+01** | **1E+01** |
| **Hawk - high** | **tPCB-high** | **2.07E+02** | **1.60E+01** | 1.00E+01 | 3.94E+00 | 1.53E+01 | 1.93E+01 | 1.57E+02 | 6.14E+02 | 7.71E+02 | 2.10E+00 | 4.50E+00 | **7E+01** | **3E+01** | **3E+02** | **1E+02** | **4E+02** | **2E+02** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-16**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C1, Aquatic and Subarea Soil - Riparian**
**Anniston PCB Site, Anniston, Alabama**

| | | | | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values (mg/kg dw) | | HQs (unitless) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | |
| Aquatic Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Tree Swallow - mid** | **tPCB-med** | **1.02E+01** | **1.60E+01** | 1.00E+01 | NA | 1.62E+00 | 1.62E+00 | -- | 6.50E+01 | 6.50E+01 | 2.80E+01 | 6.60E+01 | **--** | **--** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **2.81E+00** | **5.80E-01** | 8.00E-01 | NA | 9.64E-04 | 9.66E-04 | -- | 3.08E-03 | 3.09E-03 | 4.40E-01 | 8.00E-01 | **--** | **--** | 7E-03 | 4E-03 | 7E-03 | 4E-03 |
| **Tree Swallow - high** | **tPCB-high** | **1.02E+01** | **1.60E+01** | 1.00E+01 | NA | 1.62E+00 | 1.62E+00 | -- | 6.50E+01 | 6.50E+01 | 2.10E+00 | 4.50E+00 | **--** | **--** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **1.02E+01** | **1.60E+01** | 1.00E+01 | 1.89E-01 | 8.05E-02 | 2.69E-01 | 7.55E+00 | 3.22E+00 | 1.08E+01 | 2.80E+01 | 6.60E+01 | 3E-01 | 1E-01 | 1E-01 | 5E-02 | 4E-01 | 2E-01 |
| | **Mercury** | **2.81E+00** | **5.80E-01** | 8.00E-01 | 1.86E-02 | 1.42E-03 | 2.00E-02 | 5.95E-02 | 4.55E-03 | 6.40E-02 | 4.40E-01 | 8.00E-01 | 1E-01 | 7E-02 | 1E-02 | 6E-03 | 1E-01 | 8E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **1.02E+01** | **1.60E+01** | 1.00E+01 | 1.89E-01 | 8.05E-02 | 2.69E-01 | 7.55E+00 | 3.22E+00 | 1.08E+01 | 2.10E+00 | 4.50E+00 | **4E+00** | **2E+00** | **2E+00** | 7E-01 | **5E+00** | **2E+00** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1.02E+01** | **1.60E+01** | 1.00E+01 | NA | 1.30E+00 | 1.30E+00 | -- | 5.19E+01 | 5.19E+01 | 2.80E+01 | 6.60E+01 | **--** | **--** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | **2.81E+00** | **5.80E-01** | 8.00E-01 | NA | 4.04E-03 | 4.05E-03 | -- | 1.29E-02 | 1.29E-02 | 4.40E-01 | 8.00E-01 | **--** | **--** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1.02E+01** | **1.60E+01** | 1.00E+01 | NA | 1.30E+00 | 1.30E+00 | -- | 5.19E+01 | 5.19E+01 | 2.10E+00 | 4.50E+00 | **--** | **--** | **2E+01** | **1E+01** | **2E+01** | **1E+01** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **1.02E+01** | **1.60E+01** | 1.00E+01 | NA | 6.21E+00 | 6.21E+00 | -- | 2.48E+02 | 2.48E+02 | 2.80E+01 | 6.60E+01 | **--** | **--** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Mercury** | **2.81E+00** | **5.80E-01** | 8.00E-01 | NA | 2.17E-03 | 2.17E-03 | -- | 6.93E-03 | 6.95E-03 | 4.40E-01 | 8.00E-01 | **--** | **--** | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| **Kingfisher - 1 - high** | **tPCB-high** | **1.02E+01** | **1.60E+01** | 1.00E+01 | NA | 6.21E+00 | 6.21E+00 | -- | 2.48E+02 | 2.48E+02 | 2.10E+00 | 4.50E+00 | **--** | **--** | **1E+02** | **6E+01** | **1E+02** | **6E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **1.02E+01** | **1.60E+01** | 1.00E+01 | NA | 5.02E+00 | 5.02E+00 | -- | 2.01E+02 | 2.01E+02 | 2.80E+01 | 6.60E+01 | **--** | **--** | **7E+00** | **3E+00** | **7E+00** | **3E+00** |
| | **Mercury** | **2.81E+00** | **5.80E-01** | 8.00E-01 | NA | 2.97E-03 | 2.98E-03 | -- | 9.50E-03 | 9.52E-03 | 4.40E-01 | 8.00E-01 | **--** | **--** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **1.02E+01** | **1.60E+01** | 1.00E+01 | NA | 5.02E+00 | 5.02E+00 | -- | 2.01E+02 | 2.01E+02 | 2.10E+00 | 4.50E+00 | **--** | **--** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **GBH - mid** | **tPCB-med** | **1.02E+01** | **1.60E+01** | 1.00E+01 | 2.98E-02 | 1.38E+02 | 1.38E+02 | 1.19E+00 | 5.51E+03 | 5.51E+03 | 2.80E+01 | 6.60E+01 | 4E-02 | 2E-02 | **2E+02** | **8E+01** | **2E+02** | **8E+01** |
| | **Mercury** | **2.81E+00** | **5.80E-01** | 8.00E-01 | 1.12E-04 | 7.06E-02 | 7.07E-02 | 3.59E-04 | 2.26E-01 | 2.26E-01 | 4.40E-01 | 8.00E-01 | 8E-04 | 4E-04 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| **GBH - high** | **tPCB-high** | **1.02E+01** | **1.60E+01** | 1.00E+01 | 2.98E-02 | 1.38E+02 | 1.38E+02 | 1.19E+00 | 5.51E+03 | 5.51E+03 | 2.10E+00 | 4.50E+00 | 6E-01 | 3E-01 | **3E+03** | **1E+03** | **3E+03** | **1E+03** |
| **Osprey - mid** | **tPCB-med** | **1.02E+01** | **1.60E+01** | 1.00E+01 | NA | 4.02E+01 | 4.02E+01 | -- | 1.61E+03 | 1.61E+03 | 2.80E+01 | 6.60E+01 | **--** | **--** | **6E+01** | **2E+01** | **6E+01** | **2E+01** |
| | **Mercury** | **2.81E+00** | **5.80E-01** | 8.00E-01 | NA | 1.72E-02 | 1.73E-02 | -- | 5.51E-02 | 5.52E-02 | 4.40E-01 | 8.00E-01 | **--** | **--** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| **Osprey - high** | **tPCB-high** | **1.02E+01** | **1.60E+01** | 1.00E+01 | NA | 4.02E+01 | 4.02E+01 | -- | 1.61E+03 | 1.61E+03 | 2.10E+00 | 4.50E+00 | **--** | **--** | **8E+02** | **4E+02** | **8E+02** | **4E+02** |

**Notes:**

COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-17**

**Lower Trophic Level Terrestrial Risk Calculations For Reach C2**

**Anniston PCB Site, Anniston, Alabama**

| Media | Receptor Community | COPC | Soil EPC (mg/kg) | Toxicity Benchmarks[a] (mg/kg) | | Hazard Quotients | |
|---|---|---|---|---|---|---|---|
| | | | | NOAEL | LOAEL | NOAEL | LOAEL |
| Soil - North | **Terrestrial Plants** | **PCB** | 5.55E+00 | 4.00E+01 | NA | 1E-01 | -- |
| | | **Chromium** | 3.44E+01 | 1.00E+00 | NA | **3E+01** | -- |
| | | **Lead** | 3.00E+01 | 1.20E+02 | NA | 3E-01 | -- |
| | | **Mercury** | 1.42E+00 | 3.00E-01 | NA | **5E+00** | -- |
| | | **Vanadium** | 2.29E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 5.55E+00 | 3.60E+00 | 3.60E+01 | **2E+00** | 2E-01 |
| | | **Chromium** | 3.44E+01 | 4.00E-01 | NA | **9E+01** | -- |
| | | **Lead** | 3.00E+01 | 1.70E+03 | NA | 2E-02 | -- |
| | | **Mercury** | 1.42E+00 | 1.00E-01 | 0.23 | **1E+01** | **6E+00** |
| | | **Vanadium** | 2.29E+01 | NA | NA | -- | -- |
| Soil - South | **Terrestrial Plants** | **PCB** | 3.75E-01 | 4.00E+01 | NA | 9E-03 | -- |
| | | **Chromium** | 1.12E+01 | 1.00E+00 | NA | **1E+01** | -- |
| | | **Lead** | 2.28E+01 | 1.20E+02 | NA | 2E-01 | -- |
| | | **Mercury** | 7.06E-02 | 3.00E-01 | NA | 2E-01 | -- |
| | | **Vanadium** | 2.28E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 3.75E-01 | 3.60E+00 | 3.60E+01 | 1E-01 | 1E-02 |
| | | **Chromium** | 1.12E+01 | 4.00E-01 | NA | **3E+01** | -- |
| | | **Lead** | 2.28E+01 | 1.70E+03 | NA | 1E-02 | -- |
| | | **Mercury** | 7.06E-02 | 1.00E-01 | 0.23 | 7E-01 | 3E-01 |
| | | **Vanadium** | 2.28E+01 | NA | NA | -- | -- |
| Soil - Central | **Terrestrial Plants** | **PCB** | 1.76E+00 | 4.00E+01 | NA | 4E-02 | -- |
| | | **Chromium** | 1.34E+01 | 1.00E+00 | NA | **1E+01** | -- |
| | | **Lead** | 4.48E+01 | 1.20E+02 | NA | 4E-01 | -- |
| | | **Mercury** | 1.61E-01 | 3.00E-01 | NA | 5E-01 | -- |
| | | **Vanadium** | 1.94E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 1.76E+00 | 3.60E+00 | 3.60E+01 | 5E-01 | 5E-02 |
| | | **Chromium** | 1.34E+01 | 4.00E-01 | NA | **3E+01** | -- |
| | | **Lead** | 4.48E+01 | 1.70E+03 | NA | 3E-02 | -- |
| | | **Mercury** | 1.61E-01 | 1.00E-01 | 0.23 | **2E+00** | 7E-01 |
| | | **Vanadium** | 1.94E+01 | NA | NA | -- | -- |
| Soil - Riparian | **Terrestrial Plants** | **PCB** | 3.20E+01 | 4.00E+01 | NA | 8E-01 | -- |
| | | **Chromium** | 1.34E+01 | 1.00E+00 | NA | **1E+01** | -- |
| | | **Lead** | 4.48E+01 | 1.20E+02 | NA | 4E-01 | -- |
| | | **Mercury** | 4.89E-01 | 3.00E-01 | NA | **2E+00** | -- |
| | | **Vanadium** | 2.28E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 3.20E+01 | 3.60E+00 | 3.60E+01 | **9E+00** | 9E-01 |
| | | **Chromium** | 1.34E+01 | 4.00E-01 | NA | **3E+01** | -- |
| | | **Lead** | 4.48E+01 | 1.70E+03 | NA | 3E-02 | -- |
| | | **Mercury** | 4.89E-01 | 1.00E-01 | 0.23 | **5E+00** | **2E+00** |
| | | **Vanadium** | 2.28E+01 | NA | NA | -- | -- |

**Notes:**

a = NOAELs represent chronic values and LOAELs represent acute values
COPC = constituent of potential concern
EPC - exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
NA = not applicable
NOAEL = no observed adverse effect level
OU = Operable Unit
PCB = total polychlorinated biphenyl

**Bold indicates hazard quotients greater than 1**

**Table E3-18**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C2**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-18**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C2**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | |
|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Tree Swallow - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Tree Swallow - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Osprey - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Osprey - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Bat** | **tPCB** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Otter** | **tPCB-mink** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |

**Table E3-18**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C2**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-18**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C2**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 4.82E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 4.82E+01 | 4.82E+01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.20E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 2.20E+00 | 2.23E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 4.21E+00 | 4.22E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.39E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 1.39E-01 | 1.41E-01 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 2.48E-01 | 2.62E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.17E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 2.17E+00 | 2.17E+00 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 2.63E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 2.63E-01 | 2.67E-01 | 3.44E-01 | 7.00E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 4.82E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 4.82E+01 | 4.82E+01 | 4.33E-02 | 1.30E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 1.01E+00 | 0.00E+00 | 2.08E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-01 | 2.66E-05 | 2.22E+01 | 2.22E+01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 1.40E+01 | 0.00E+00 | 1.40E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.51E+00 | 2.06E-02 | 3.35E+01 | 3.35E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 5.03E-01 | 0.00E+00 | 5.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.13E-01 | 3.06E-03 | 1.52E+00 | 1.52E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 8.64E-01 | 0.00E+00 | 8.64E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E-01 | 2.07E-03 | 1.98E+00 | 1.98E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 3.57E+00 | 0.00E+00 | 3.57E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E+00 | 1.14E-02 | 8.75E+00 | 8.76E+00 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 7.81E-02 | 0.00E+00 | 2.44E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.78E-01 | 7.31E-05 | 3.40E+00 | 3.40E+00 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 5.33E-01 | 0.00E+00 | 5.33E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.39E-01 | 2.91E-03 | 1.51E+00 | 1.51E+00 | 3.44E-01 | 7.00E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 1.01E+00 | 0.00E+00 | 2.08E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-01 | 2.66E-05 | 2.22E+01 | 2.22E+01 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E+01 | 0.00E+00 | 0.00E+00 | 3.14E-02 | 1.72E-05 | 2.61E+01 | 2.61E+01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E+01 | 0.00E+00 | 0.00E+00 | 5.42E-01 | 1.33E-02 | 2.60E+01 | 2.60E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.49E+00 | 0.00E+00 | 0.00E+00 | 5.04E-02 | 1.98E-03 | 1.54E+00 | 1.55E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 2.46E-02 | 1.34E-03 | 3.07E+00 | 3.07E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.73E-01 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 7.40E-03 | 3.31E-01 | 3.39E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.05E-01 | 0.00E+00 | 0.00E+00 | 8.64E-02 | 4.73E-05 | 6.91E-01 | 6.91E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.47E-01 | 0.00E+00 | 0.00E+00 | 4.32E-02 | 1.88E-03 | 3.90E-01 | 3.92E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E+01 | 0.00E+00 | 0.00E+00 | 3.14E-02 | 1.72E-05 | 2.61E+01 | 2.61E+01 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.71E-01 | 0.00E+00 | 0.00E+00 | 1.98E+01 | 0.00E+00 | 6.79E-01 | 3.14E-02 | 1.72E-05 | 2.11E+01 | 2.11E+01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.92E+01 | 0.00E+00 | 0.00E+00 | 1.93E+01 | 0.00E+00 | 1.59E+00 | 5.42E-01 | 1.33E-02 | 5.07E+01 | 5.07E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.67E-02 | 0.00E+00 | 0.00E+00 | 1.13E+00 | 0.00E+00 | 1.39E-01 | 5.04E-02 | 1.98E-03 | 1.36E+00 | 1.36E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 2.40E-02 | 2.46E-02 | 1.34E-03 | 2.96E+00 | 2.96E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-01 | 0.00E+00 | 0.00E+00 | 1.31E-01 | 0.00E+00 | 1.56E-01 | 1.59E-01 | 7.40E-03 | 6.41E-01 | 6.48E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-02 | 0.00E+00 | 0.00E+00 | 4.60E-01 | 0.00E+00 | 2.05E-02 | 8.64E-02 | 4.73E-05 | 5.78E-01 | 5.78E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.69E-02 | 0.00E+00 | 0.00E+00 | 2.63E-01 | 0.00E+00 | 1.95E-02 | 4.32E-02 | 1.88E-03 | 4.03E-01 | 4.05E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.71E-01 | 0.00E+00 | 0.00E+00 | 1.98E+01 | 0.00E+00 | 6.79E-01 | 3.14E-02 | 1.72E-05 | 2.11E+01 | 2.11E+01 | 4.33E-02 | 1.30E-01 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 1.56E+01 | 1.56E+01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 3.59E+00 | 3.60E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 1.97E-01 | 1.98E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 4.09E-02 | 4.15E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 9.10E-02 | 9.44E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.09E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 5.09E-01 | 5.09E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 4.72E-02 | 4.80E-02 | 3.44E-01 | 7.00E-01 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 1.56E+01 | 1.56E+01 | 4.33E-02 | 1.30E-01 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 3.56E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 3.56E+01 | 3.56E+01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.63E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 1.63E+00 | 1.64E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 3.11E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 3.11E+00 | 3.11E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 1.02E-01 | 1.04E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.83E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 1.83E-01 | 1.94E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.60E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 1.60E+00 | 1.60E+00 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.94E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 1.94E-01 | 1.97E-01 | 4.16E+00 | 8.31E+00 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.70E+00 | 6.15E+00 | 1.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.16E+01 | 1.16E+01 | 5.00E-02 | 1.00E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.70E+00 | 6.15E+00 | 1.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.16E+01 | 1.16E+01 | na | 5.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.51E-01 | 3.08E-01 | 1.69E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 2.85E+00 | 2.86E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.68E-02 | 1.96E-02 | 9.91E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 1.65E-01 | 1.67E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.69E-03 | 3.60E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.15E-01 | 2.16E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.15E-02 | 9.82E-03 | 1.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 4.28E-02 | 4.83E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 2.88E-01 | 4.01E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 4.48E-01 | 4.48E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 2.93E-03 | 2.30E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 3.71E-02 | 3.85E-02 | 4.16E+00 | 8.31E+00 |

**Table E3-18**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C2**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | **1E+02** | **3E+01** | **1E+02** | **3E+01** |
| | **Barium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | **1E+02** | **3E+01** | **1E+02** | **3E+01** |
| | **Vanadium** | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| **Tree Swallow - high** | **tPCB-high** | **1E+03** | **4E+02** | **1E+03** | **4E+02** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| | **Barium** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 6E-01 | 5E-01 | 6E-01 | 5E-01 |
| | **Cobalt** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| | **Mercury** | **1E+02** | **5E+01** | **1E+02** | **5E+01** |
| | **Vanadium** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **5E+02** | **2E+02** | **5E+02** | **2E+02** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **6E+01** | **2E+01** | **6E+01** | **2E+01** |
| | **Barium** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Chromium** | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Vanadium** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | **6E+02** | **2E+02** | **6E+02** | **2E+02** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| | **Barium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Chromium** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| | **Vanadium** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | **5E+02** | **2E+02** | **5E+02** | **2E+02** |
| **Osprey - mid** | **tPCB-med** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Barium** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 7E-02 | 7E-02 | 7E-02 | 7E-02 |
| | **Cobalt** | 5E-03 | 5E-03 | 5E-03 | 5E-03 |
| | **Lead** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Mercury** | **2E+01** | **7E+00** | **2E+01** | **7E+00** |
| | **Vanadium** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| **Osprey - high** | **tPCB-high** | **4E+02** | **1E+02** | **4E+02** | **1E+02** |
| **Bat** | **tPCB** | **2E+02** | **5E+01** | **2E+02** | **5E+01** |
| | **Barium** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 1E-02 | 1E-02 | 1E-02 | 1E-02 |
| | **Lead** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | **2E+01** | **1E+01** | **2E+01** | **1E+01** |
| | **Vanadium** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| **Otter** | **tPCB-mink** | **2E+02** | **1E+02** | **2E+02** | **1E+02** |
| **Otter (Alternative TRV)** | **tPCB-mink** | **--** | **2E+02** | **--** | **2E+02** |
| | **Barium** | 5E-02 | 2E-02 | 6E-02 | 2E-02 |
| | **Chromium** | 7E-02 | 6E-02 | 7E-02 | 6E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 9E-03 | 5E-03 | 1E-02 | 5E-03 |
| | **Mercury** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Vanadium** | 9E-03 | 4E-03 | 9E-03 | 5E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-19**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **5.55E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.00E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **5.55E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **5.55E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.00E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **5.55E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **5.55E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.00E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **5.55E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **5.55E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.00E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **5.55E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.00E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **5.55E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.00E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **5.55E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.00E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **5.55E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.00E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-19**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioacccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 4.04E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-01 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.01E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.80E-02 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 4.37E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.75E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.33E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.89E-01 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.30E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.49E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 4.04E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-01 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.41E-01 | 1.59E-02 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 1.19E-01 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 8.49E-03 | 4.24E-04 | 0.00E+00 | 4.28E-02 | 0.00E+00 | 3.05E-02 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.69E-01 | 1.24E-01 | 0.00E+00 | 5.31E-01 | 0.00E+00 | 7.37E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.12E-02 | 4.16E-03 | 0.00E+00 | 3.34E-01 | 0.00E+00 | 6.42E-01 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.94E-02 | 3.16E-03 | 0.00E+00 | 2.42E-01 | 0.00E+00 | 4.90E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.41E-01 | 1.59E-02 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 1.19E-01 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 6.27E-02 | 1.03E-01 | 9.33E-01 | 1.93E+00 | 0.00E+00 | 1.89E-01 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.56E-03 | 2.77E-03 | 9.31E-02 | 1.92E-01 | 0.00E+00 | 4.86E-02 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 6.78E-02 | 8.09E-01 | 1.15E+00 | 2.38E+00 | 0.00E+00 | 1.17E+00 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.07E-03 | 2.71E-02 | 7.26E-01 | 1.50E+00 | 0.00E+00 | 1.02E+00 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.57E-03 | 2.06E-02 | 5.25E-01 | 1.08E+00 | 0.00E+00 | 7.81E-01 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 6.27E-02 | 1.03E-01 | 9.33E-01 | 1.93E+00 | 0.00E+00 | 1.89E-01 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 4.39E-02 | 3.07E-02 | 1.21E+00 | 8.32E-01 | 0.00E+00 | 2.13E-02 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.09E-03 | 8.22E-04 | 1.20E-01 | 8.30E-02 | 0.00E+00 | 5.46E-03 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 4.74E-02 | 2.41E-01 | 1.49E+00 | 1.03E+00 | 0.00E+00 | 1.32E-01 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.44E-03 | 8.06E-03 | 9.39E-01 | 6.47E-01 | 0.00E+00 | 1.15E-01 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.49E-03 | 6.13E-03 | 6.79E-01 | 4.68E-01 | 0.00E+00 | 8.78E-02 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 4.19E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.63E-03 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.04E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.17E-04 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 4.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-02 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.38E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.79E-03 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.38E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.71E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.13E-01 | 1.42E-02 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.35E-04 | 3.63E-03 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.10E-01 | 8.78E-02 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-01 | 7.66E-02 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 5.85E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.84E-02 | 0.00E+00 | 3.87E-02 | 0.00E+00 | 1.58E-01 | 5.88E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.58E-04 | 0.00E+00 | 3.86E-03 | 0.00E+00 | 4.21E-04 | 1.51E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.99E-02 | 0.00E+00 | 4.78E-02 | 0.00E+00 | 3.08E-01 | 3.65E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.06E-04 | 0.00E+00 | 3.01E-02 | 0.00E+00 | 8.77E-02 | 3.18E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.05E-03 | 0.00E+00 | 2.17E-02 | 0.00E+00 | 1.87E-01 | 2.43E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.42E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-01 | 5.88E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.35E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.06E-04 | 1.51E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.85E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.70E-01 | 3.65E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.78E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-01 | 3.18E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.08E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.43E-02 | 1.45E-03 |

**Table E3-19**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 5.13E-01 | 5.13E-01 | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 3.80E-02 | 3.81E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Chromium** | 1.11E+00 | 1.11E+00 | 2.66E+00 | 2.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 6.02E-01 | 6.10E-01 | 1.63E+00 | 3.26E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 4.72E-01 | 4.75E-01 | 3.44E-01 | 7.00E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | 5.13E-01 | 5.13E-01 | 4.33E-02 | 1.30E-01 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Blue Jay - mid** | **tPCB-med** | 9.05E-01 | 9.05E-01 | 4.67E-01 | 1.40E+00 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | 8.22E-02 | 8.23E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Chromium** | 1.76E+00 | 1.76E+00 | 2.66E+00 | 2.80E+00 | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Lead** | 9.92E-01 | 1.00E+00 | 1.63E+00 | 3.26E+00 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 7.54E-01 | 7.57E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | 9.05E-01 | 9.05E-01 | 4.33E-02 | 1.30E-01 | **2E+01** | **7E+00** | **2E+01** | **7E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 3.22E+00 | 3.22E+00 | 4.67E-01 | 1.40E+00 | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Mercury** | 3.38E-01 | 3.38E-01 | 2.27E-02 | 6.80E-02 | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Chromium** | 5.59E+00 | 5.59E+00 | 2.66E+00 | 2.80E+00 | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Lead** | 3.28E+00 | 3.30E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Vanadium** | 2.42E+00 | 2.42E+00 | 3.44E-01 | 7.00E-01 | **7E+00** | **3E+00** | **7E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 3.22E+00 | 3.22E+00 | 4.33E-02 | 1.30E-01 | **7E+01** | **2E+01** | **7E+01** | **2E+01** |
| **Shrew - 1** | **tPCB** | 2.14E+00 | 2.14E+00 | 2.30E-01 | 6.80E-01 | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Mercury** | 2.11E-01 | 2.11E-01 | 7.50E-02 | 1.50E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Chromium** | 2.94E+00 | 2.94E+00 | 2.40E+00 | 2.82E+00 | **1E+00** | 1E+00 | **1E+00** | 1E+00 |
| | **Lead** | 1.71E+00 | 1.72E+00 | 4.70E+00 | 8.90E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 1.24E+00 | 1.25E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| **Deer** | **tPCB** | 4.35E-02 | 4.35E-02 | 2.30E-01 | 6.80E-01 | 2E-01 | 6E-02 | 2E-01 | 6E-02 |
| | **Mercury** | 1.46E-03 | 1.49E-03 | 7.50E-02 | 1.50E-01 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Chromium** | 5.54E-02 | 5.66E-02 | 2.40E+00 | 2.82E+00 | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 1.02E-02 | 1.46E-02 | 4.70E+00 | 8.90E+00 | 2E-03 | 1E-03 | 3E-03 | 2E-03 |
| | **Vanadium** | 9.09E-03 | 1.02E-02 | 4.16E+00 | 8.31E+00 | 2E-03 | 1E-03 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | 3.27E-01 | 3.27E-01 | 2.30E-01 | 6.80E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Mercury** | 4.47E-03 | 4.52E-03 | 7.50E-02 | 1.50E-01 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Chromium** | 6.98E-01 | 7.00E-01 | 2.40E+00 | 2.82E+00 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Lead** | 2.51E-01 | 2.58E-01 | 4.70E+00 | 8.90E+00 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 4.29E-01 | 4.31E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 2.21E-01 | 2.21E-01 | 2.30E-01 | 6.80E-01 | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Mercury** | 6.24E-03 | 6.28E-03 | 7.50E-02 | 1.50E-01 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Chromium** | 4.12E-01 | 4.13E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 1.50E-01 | 1.56E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Vanadium** | 2.34E-01 | 2.35E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 2.01E-01 | 2.01E-01 | 2.30E-01 | 6.80E-01 | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Mercury** | 2.15E-03 | 2.19E-03 | 7.50E-02 | 1.50E-01 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 4.12E-01 | 4.14E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 1.37E-01 | 1.43E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Vanadium** | 2.49E-01 | 2.51E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-20**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **3.75E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.28E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **3.75E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **3.75E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.28E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **3.75E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **3.75E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.28E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **3.75E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **3.75E-01** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.28E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **3.75E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.28E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **3.75E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.28E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **3.75E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.28E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **3.75E-01** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.28E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-20**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 4.30E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.36E-03 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 4.98E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.42E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.20E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.01E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.48E-01 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.29E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.48E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 4.30E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.36E-03 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.63E-02 | 1.07E-03 | 0.00E+00 | 2.04E-02 | 0.00E+00 | 8.03E-03 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 4.21E-04 | 2.10E-05 | 0.00E+00 | 1.32E-02 | 0.00E+00 | 1.51E-03 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.20E-01 | 1.24E-01 | 0.00E+00 | 1.73E-01 | 0.00E+00 | 2.40E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 8.54E-03 | 3.16E-03 | 0.00E+00 | 2.54E-01 | 0.00E+00 | 4.88E-01 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.93E-02 | 3.15E-03 | 0.00E+00 | 2.40E-01 | 0.00E+00 | 4.88E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.63E-02 | 1.07E-03 | 0.00E+00 | 2.04E-02 | 0.00E+00 | 8.03E-03 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 6.68E-03 | 6.99E-03 | 4.42E-02 | 9.14E-02 | 0.00E+00 | 1.28E-02 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 7.74E-05 | 1.37E-04 | 2.86E-02 | 5.91E-02 | 0.00E+00 | 2.41E-03 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.21E-02 | 8.09E-01 | 3.76E-01 | 7.76E-01 | 0.00E+00 | 3.82E-01 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.57E-03 | 2.06E-02 | 5.51E-01 | 1.14E+00 | 0.00E+00 | 7.78E-01 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.55E-03 | 2.05E-02 | 5.23E-01 | 1.08E+00 | 0.00E+00 | 7.78E-01 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 6.68E-03 | 6.99E-03 | 4.42E-02 | 9.14E-02 | 0.00E+00 | 1.28E-02 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 4.67E-03 | 2.08E-03 | 5.72E-02 | 3.94E-02 | 0.00E+00 | 1.44E-03 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 5.41E-05 | 4.07E-05 | 3.70E-02 | 2.55E-02 | 0.00E+00 | 2.71E-04 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.54E-02 | 2.41E-01 | 4.86E-01 | 3.35E-01 | 0.00E+00 | 4.29E-02 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.10E-03 | 6.12E-03 | 7.13E-01 | 4.92E-01 | 0.00E+00 | 8.74E-02 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.48E-03 | 6.10E-03 | 6.76E-01 | 4.66E-01 | 0.00E+00 | 8.74E-02 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 4.46E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-04 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 5.17E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.07E-05 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.48E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.28E-03 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.05E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.68E-03 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.37E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.68E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.21E-02 | 9.57E-04 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.14E-05 | 1.80E-04 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-01 | 2.86E-02 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.32E-01 | 5.82E-02 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 5.82E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.96E-03 | 0.00E+00 | 1.83E-03 | 0.00E+00 | 3.63E-02 | 3.98E-04 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.27E-05 | 0.00E+00 | 1.18E-03 | 0.00E+00 | 2.09E-05 | 7.49E-05 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.48E-03 | 0.00E+00 | 1.56E-02 | 0.00E+00 | 1.00E-01 | 1.19E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.61E-04 | 0.00E+00 | 2.28E-02 | 0.00E+00 | 6.66E-02 | 2.42E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.04E-03 | 0.00E+00 | 2.17E-02 | 0.00E+00 | 1.87E-01 | 2.42E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.37E-02 | 3.98E-04 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.68E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 7.49E-05 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.91E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 1.19E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.36E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.01E-02 | 2.42E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.07E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.42E-02 | 1.45E-03 |

**Table E3-20**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 5.04E-02 | 5.04E-02 | 4.67E-01 | 1.40E+00 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Mercury** | 1.88E-03 | 1.94E-03 | 2.27E-02 | 6.80E-02 | 8E-02 | 3E-02 | 9E-02 | 3E-02 |
| | **Chromium** | 3.62E-01 | 3.64E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 4.58E-01 | 4.66E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 4.70E-01 | 4.72E-01 | 3.44E-01 | 7.00E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | 5.04E-02 | 5.04E-02 | 4.33E-02 | 1.30E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| **Blue Jay - mid** | **tPCB-med** | 6.58E-02 | 6.58E-02 | 4.67E-01 | 1.40E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | 1.51E-02 | 1.52E-02 | 2.27E-02 | 6.80E-02 | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Chromium** | 6.57E-01 | 6.59E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 7.54E-01 | 7.62E-01 | 1.63E+00 | 3.26E+00 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | 7.51E-01 | 7.53E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | 6.58E-02 | 6.58E-02 | 4.33E-02 | 1.30E-01 | **2E+00** | 5E-01 | **2E+00** | 5E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 1.62E-01 | 1.62E-01 | 4.67E-01 | 1.40E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 9.03E-02 | 9.04E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Chromium** | 2.37E+00 | 2.37E+00 | 2.66E+00 | 2.80E+00 | 9E-01 | 8E-01 | 9E-01 | 8E-01 |
| | **Lead** | 2.49E+00 | 2.51E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | 2.40E+00 | 2.41E+00 | 3.44E-01 | 7.00E-01 | **7E+00** | **3E+00** | **7E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 1.62E-01 | 1.62E-01 | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Shrew - 1** | **tPCB** | 1.05E-01 | 1.05E-01 | 2.30E-01 | 6.80E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 6.28E-02 | 6.29E-02 | 7.50E-02 | 1.50E-01 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Chromium** | 1.12E+00 | 1.12E+00 | 2.40E+00 | 2.82E+00 | 5E-01 | 4E-01 | 5E-01 | 4E-01 |
| | **Lead** | 1.30E+00 | 1.31E+00 | 4.70E+00 | 8.90E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 1.24E+00 | 1.24E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| **Deer** | **tPCB** | 4.57E-03 | 4.58E-03 | 2.30E-01 | 6.80E-01 | 2E-02 | 7E-03 | 2E-02 | 7E-03 |
| | **Mercury** | 7.24E-05 | 1.01E-04 | 7.50E-02 | 1.50E-01 | 1E-03 | 5E-04 | 1E-03 | 7E-04 |
| | **Chromium** | 1.80E-02 | 1.92E-02 | 2.40E+00 | 2.82E+00 | 8E-03 | 6E-03 | 8E-03 | 7E-03 |
| | **Lead** | 7.73E-03 | 1.22E-02 | 4.70E+00 | 8.90E+00 | 2E-03 | 9E-04 | 3E-03 | 1E-03 |
| | **Vanadium** | 9.05E-03 | 1.02E-02 | 4.16E+00 | 8.31E+00 | 2E-03 | 1E-03 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | 7.31E-02 | 7.31E-02 | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 2.22E-04 | 2.69E-04 | 7.50E-02 | 1.50E-01 | 3E-03 | 1E-03 | 4E-03 | 2E-03 |
| | **Chromium** | 2.27E-01 | 2.29E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 8E-02 | 1E-01 | 8E-02 |
| | **Lead** | 1.90E-01 | 1.98E-01 | 4.70E+00 | 8.90E+00 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Vanadium** | 4.29E-01 | 4.31E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 4.05E-02 | 4.05E-02 | 2.30E-01 | 6.80E-01 | 2E-01 | 6E-02 | 2E-01 | 6E-02 |
| | **Mercury** | 1.30E-03 | 1.34E-03 | 7.50E-02 | 1.50E-01 | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| | **Chromium** | 1.34E-01 | 1.36E-01 | 2.40E+00 | 2.82E+00 | 6E-02 | 5E-02 | 6E-02 | 5E-02 |
| | **Lead** | 1.14E-01 | 1.20E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Vanadium** | 2.34E-01 | 2.35E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 4.47E-02 | 4.47E-02 | 2.30E-01 | 6.80E-01 | 2E-01 | 7E-02 | 2E-01 | 7E-02 |
| | **Mercury** | 1.07E-04 | 1.43E-04 | 7.50E-02 | 1.50E-01 | 1E-03 | 7E-04 | 2E-03 | 1E-03 |
| | **Chromium** | 1.34E-01 | 1.36E-01 | 2.40E+00 | 2.82E+00 | 6E-02 | 5E-02 | 6E-02 | 5E-02 |
| | **Lead** | 1.04E-01 | 1.10E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Vanadium** | 2.49E-01 | 2.51E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-21**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **1.76E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.48E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **1.76E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.76E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.48E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **1.76E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.76E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.48E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.76E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **1.76E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.48E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **1.76E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.48E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **1.76E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.48E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **1.76E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.48E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **1.76E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.48E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-21**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.45E-02 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.14E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.16E-03 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.79E-01 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.95E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.81E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.45E-02 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.18E-01 | 5.03E-03 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 3.77E-02 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 9.60E-04 | 4.80E-05 | 0.00E+00 | 1.51E-02 | 0.00E+00 | 3.45E-03 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.44E-01 | 1.24E-01 | 0.00E+00 | 2.07E-01 | 0.00E+00 | 2.87E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.68E-02 | 6.21E-03 | 0.00E+00 | 4.99E-01 | 0.00E+00 | 9.59E-01 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.64E-02 | 2.68E-03 | 0.00E+00 | 2.05E-01 | 0.00E+00 | 4.15E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.18E-01 | 5.03E-03 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 3.77E-02 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.17E-02 | 3.28E-02 | 2.82E-01 | 5.83E-01 | 0.00E+00 | 6.01E-02 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.77E-04 | 3.13E-04 | 3.29E-02 | 6.80E-02 | 0.00E+00 | 5.49E-03 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.64E-02 | 8.09E-01 | 4.49E-01 | 9.29E-01 | 0.00E+00 | 4.57E-01 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.09E-03 | 4.05E-02 | 1.08E+00 | 2.24E+00 | 0.00E+00 | 1.53E+00 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.02E-03 | 1.75E-02 | 4.45E-01 | 9.19E-01 | 0.00E+00 | 6.62E-01 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.17E-02 | 3.28E-02 | 2.82E-01 | 5.83E-01 | 0.00E+00 | 6.01E-02 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.52E-02 | 9.75E-03 | 3.65E-01 | 2.52E-01 | 0.00E+00 | 6.75E-03 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.23E-04 | 9.29E-05 | 4.26E-02 | 2.93E-02 | 0.00E+00 | 6.17E-04 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.85E-02 | 2.41E-01 | 5.81E-01 | 4.01E-01 | 0.00E+00 | 5.14E-02 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.16E-03 | 1.20E-02 | 1.40E+00 | 9.66E-01 | 0.00E+00 | 1.72E-01 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.11E-03 | 5.19E-03 | 5.75E-01 | 3.96E-01 | 0.00E+00 | 7.44E-02 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.16E-04 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.18E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.72E-05 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.76E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.93E-03 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.06E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-02 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.02E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.69E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E-01 | 4.49E-03 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.44E-05 | 4.11E-04 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.38E-01 | 3.42E-02 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.60E-01 | 1.14E-01 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 4.95E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.37E-03 | 0.00E+00 | 1.17E-02 | 0.00E+00 | 8.43E-02 | 1.87E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.18E-05 | 0.00E+00 | 1.36E-03 | 0.00E+00 | 4.76E-05 | 1.71E-04 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.75E-03 | 0.00E+00 | 1.86E-02 | 0.00E+00 | 1.20E-01 | 1.42E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 9.05E-04 | 0.00E+00 | 4.49E-02 | 0.00E+00 | 1.31E-01 | 4.75E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.87E-04 | 0.00E+00 | 1.84E-02 | 0.00E+00 | 1.87E-01 | 2.06E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-01 | 1.87E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.52E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.72E-05 | 1.71E-04 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.28E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.44E-01 | 1.42E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.66E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-01 | 4.75E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.61E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.06E-02 | 1.45E-03 |

**Table E3-21**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 1.74E-01 | 1.74E-01 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | 4.30E-03 | 4.35E-03 | 2.27E-02 | 6.80E-02 | 2E-01 | 6E-02 | 2E-01 | 6E-02 |
| | **Chromium** | 4.33E-01 | 4.35E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 8.99E-01 | 9.07E-01 | 1.63E+00 | 3.26E+00 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 4.00E-01 | 4.02E-01 | 3.44E-01 | 7.00E-01 | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.74E-01 | 1.74E-01 | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Blue Jay - mid** | **tPCB-med** | 2.91E-01 | 2.91E-01 | 4.67E-01 | 1.40E+00 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Mercury** | 1.96E-02 | 1.96E-02 | 2.27E-02 | 6.80E-02 | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Chromium** | 7.62E-01 | 7.64E-01 | 2.66E+00 | 2.80E+00 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 1.48E+00 | 1.49E+00 | 1.63E+00 | 3.26E+00 | 9E-01 | 5E-01 | 9E-01 | 5E-01 |
| | **Vanadium** | 6.39E-01 | 6.41E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| **Blue Jay - high** | **tPCB-high** | 2.91E-01 | 2.91E-01 | 4.33E-02 | 1.30E-01 | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 9.80E-01 | 9.80E-01 | 4.67E-01 | 1.40E+00 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 1.07E-01 | 1.07E-01 | 2.27E-02 | 6.80E-02 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Chromium** | 2.67E+00 | 2.68E+00 | 2.66E+00 | 2.80E+00 | 1E+00 | 1E+00 | 1E+00 | 1E+00 |
| | **Lead** | 4.90E+00 | 4.91E+00 | 1.63E+00 | 3.26E+00 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Vanadium** | 2.05E+00 | 2.05E+00 | 3.44E-01 | 7.00E-01 | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 9.80E-01 | 9.80E-01 | 4.33E-02 | 1.30E-01 | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Shrew - 1** | **tPCB** | 6.49E-01 | 6.49E-01 | 2.30E-01 | 6.80E-01 | **3E+00** | 1E+00 | **3E+00** | 1E+00 |
| | **Mercury** | 7.27E-02 | 7.28E-02 | 7.50E-02 | 1.50E-01 | 1E+00 | 5E-01 | 1E+00 | 5E-01 |
| | **Chromium** | 1.29E+00 | 1.30E+00 | 2.40E+00 | 2.82E+00 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | 2.55E+00 | 2.56E+00 | 4.70E+00 | 8.90E+00 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 1.05E+00 | 1.06E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| **Deer** | **tPCB** | 1.50E-02 | 1.50E-02 | 2.30E-01 | 6.80E-01 | 7E-02 | 2E-02 | 7E-02 | 2E-02 |
| | **Mercury** | 1.65E-04 | 1.94E-04 | 7.50E-02 | 1.50E-01 | 2E-03 | 1E-03 | 3E-03 | 1E-03 |
| | **Chromium** | 2.16E-02 | 2.28E-02 | 2.40E+00 | 2.82E+00 | 9E-03 | 8E-03 | 9E-03 | 8E-03 |
| | **Lead** | 1.52E-02 | 1.96E-02 | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 4E-03 | 2E-03 |
| | **Vanadium** | 7.70E-03 | 8.83E-03 | 4.16E+00 | 8.31E+00 | 2E-03 | 9E-04 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | 1.72E-01 | 1.72E-01 | 2.30E-01 | 6.80E-01 | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| | **Mercury** | 5.05E-04 | 5.53E-04 | 7.50E-02 | 1.50E-01 | 7E-03 | 3E-03 | 7E-03 | 4E-03 |
| | **Chromium** | 2.72E-01 | 2.74E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 3.74E-01 | 3.82E-01 | 4.70E+00 | 8.90E+00 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 4.21E-01 | 4.22E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 1.04E-01 | 1.04E-01 | 2.30E-01 | 6.80E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 1.63E-03 | 1.67E-03 | 7.50E-02 | 1.50E-01 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Chromium** | 1.60E-01 | 1.62E-01 | 2.40E+00 | 2.82E+00 | 7E-02 | 6E-02 | 7E-02 | 6E-02 |
| | **Lead** | 2.24E-01 | 2.30E-01 | 4.70E+00 | 8.90E+00 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 2.27E-01 | 2.28E-01 | 4.16E+00 | 8.31E+00 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 1.05E-01 | 1.05E-01 | 2.30E-01 | 6.80E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 2.43E-04 | 2.80E-04 | 7.50E-02 | 1.50E-01 | 3E-03 | 2E-03 | 4E-03 | 2E-03 |
| | **Chromium** | 1.61E-01 | 1.62E-01 | 2.40E+00 | 2.82E+00 | 7E-02 | 6E-02 | 7E-02 | 6E-02 |
| | **Lead** | 2.05E-01 | 2.11E-01 | 4.70E+00 | 8.90E+00 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Vanadium** | 2.46E-01 | 2.47E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-22**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **5.55E+00** | **9.95E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.61E+01** | **1.72E+02** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **3.44E+01** | **1.60E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **6.50E+00** | **7.80E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.00E+01** | **5.03E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.42E+00** | **2.74E+01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.29E+01** | **1.37E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **5.55E+00** | **9.95E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **5.55E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.61E+01** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **3.44E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **6.50E+00** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.00E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.42E+00** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.29E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **5.55E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **5.55E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.61E+01** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **3.44E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **6.50E+00** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.00E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.42E+00** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.29E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **5.55E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.61E+01** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **3.44E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **6.50E+00** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.00E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.42E+00** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.29E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |

**Table E3-22**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-22**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-22**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-22**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 8.33E+01 | 8.67E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 8.33E+01 | 8.67E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-22**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| Carolina Wren - 2 - mid | tPCB-med | 1.32E-01 | 0.00E+00 | 0.00E+00 | 9.33E-01 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 3.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 5.56E+00 | 0.00E+00 | 0.00E+00 | 2.58E+00 | 0.00E+00 | 3.70E-01 | 0.00E+00 | 1.06E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 9.89E-02 | 0.00E+00 | 0.00E+00 | 1.15E+00 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.11E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.04E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 5.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 5.60E-01 | 0.00E+00 | 0.00E+00 | 7.26E-01 | 0.00E+00 | 2.71E-02 | 0.00E+00 | 2.51E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 5.40E-02 | 0.00E+00 | 0.00E+00 | 9.31E-02 | 0.00E+00 | 2.77E-03 | 0.00E+00 | 2.75E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 9.90E-02 | 0.00E+00 | 0.00E+00 | 5.25E-01 | 0.00E+00 | 2.06E-02 | 0.00E+00 | 6.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Carolina wren - 2 - high | tPCB-high | 1.32E-01 | 0.00E+00 | 0.00E+00 | 9.33E-01 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 3.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hawk - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.67E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.17E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.81E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hawk - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.67E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 0.00E+00 | 3.38E-02 | 0.00E+00 | 6.85E-02 | 0.00E+00 | 2.53E-03 | 6.85E-02 | 0.00E+00 | 7.49E-03 | 0.00E+00 | 0.00E+00 | 6.65E-02 | 1.31E-01 | 0.00E+00 |
| | Barium | 0.00E+00 | 8.85E-01 | 0.00E+00 | 1.89E-01 | 0.00E+00 | 9.05E-03 | 1.89E-01 | 0.00E+00 | 2.58E-02 | 0.00E+00 | 0.00E+00 | 3.41E+00 | 3.00E-02 | 0.00E+00 |
| | Chromium | 0.00E+00 | 3.65E-02 | 0.00E+00 | 8.47E-02 | 0.00E+00 | 1.98E-02 | 8.47E-02 | 0.00E+00 | 1.46E-02 | 0.00E+00 | 0.00E+00 | 4.28E-03 | 1.65E-03 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 4.36E-03 | 0.00E+00 | 1.50E-02 | 0.00E+00 | 4.95E-02 | 1.50E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 3.42E-04 | 0.00E+00 |
| | Lead | 0.00E+00 | 1.11E-03 | 0.00E+00 | 5.32E-02 | 0.00E+00 | 6.63E-04 | 5.32E-02 | 0.00E+00 | 4.17E-03 | 0.00E+00 | 0.00E+00 | 2.27E-02 | 7.60E-04 | 0.00E+00 |
| | Mercury | 0.00E+00 | 8.40E-04 | 0.00E+00 | 6.83E-03 | 0.00E+00 | 6.76E-05 | 6.83E-03 | 0.00E+00 | 2.00E-05 | 0.00E+00 | 0.00E+00 | 1.35E-03 | 4.25E-03 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 1.92E-03 | 0.00E+00 | 3.85E-02 | 0.00E+00 | 5.04E-04 | 3.85E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 8.95E-03 | 3.94E-04 | 0.00E+00 |
| Shrew - 2 | tPCB | 0.00E+00 | 6.21E-02 | 0.00E+00 | 1.34E+00 | 0.00E+00 | 2.11E-02 | 5.71E-01 | 0.00E+00 | 3.37E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 1.63E+00 | 0.00E+00 | 3.69E+00 | 0.00E+00 | 7.55E-02 | 1.58E+00 | 0.00E+00 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 6.72E-02 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.65E-01 | 7.06E-01 | 0.00E+00 | 6.57E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 8.03E-03 | 0.00E+00 | 2.92E-01 | 0.00E+00 | 4.13E-01 | 1.25E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 2.05E-03 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 5.53E-03 | 4.44E-01 | 0.00E+00 | 1.87E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 1.55E-03 | 0.00E+00 | 1.33E-01 | 0.00E+00 | 5.64E-04 | 5.69E-02 | 0.00E+00 | 8.99E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 3.53E-03 | 0.00E+00 | 7.52E-01 | 0.00E+00 | 4.21E-03 | 3.21E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-22**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-01 | 0.00E+00 | 4.23E-05 | 1.23E+00 | 3.62E+00 | 4.85E+00 | 4.85E+00 | 4.67E-01 | 1.40E+00 | **3E+00** | 9E-01 | **8E+00** | **3E+00** |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.94E+00 | 0.00E+00 | 3.27E-02 | 5.88E+00 | 1.62E+01 | 2.21E+01 | 2.21E+01 | 2.08E+01 | 4.17E+01 | 3E-01 | 1E-01 | 8E-01 | 4E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.17E+00 | 0.00E+00 | 4.86E-03 | 3.14E+00 | 1.21E+00 | 4.34E+00 | 4.35E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | 5E-01 | 4E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.22E-01 | 0.00E+00 | 3.29E-03 | 2.45E+00 | 1.27E+00 | 3.72E+00 | 3.72E+00 | 7.61E+00 | 7.80E+00 | 3E-01 | 3E-01 | 2E-01 | 2E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.82E-02 | 1.78E+00 | 3.07E+00 | 4.85E+00 | 4.87E+00 | 1.63E+00 | 3.26E+00 | **1E+00** | 5E-01 | **2E+00** | 9E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.86E-02 | 0.00E+00 | 1.16E-04 | 1.44E-01 | 2.80E+00 | 2.95E+00 | 2.95E+00 | 2.27E-02 | 6.80E-02 | **6E+00** | **2E+00** | **1E+02** | **4E+01** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.81E-01 | 0.00E+00 | 4.62E-03 | 1.33E+00 | 7.48E-01 | 2.07E+00 | 2.08E+00 | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **2E+00** | **1E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-01 | 0.00E+00 | 4.23E-05 | 1.23E+00 | 3.62E+00 | 4.85E+00 | 4.85E+00 | 4.33E-02 | 1.30E-01 | **3E+01** | **9E+00** | **8E+01** | **3E+01** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 8.64E+00 | 0.00E+00 | 2.53E-02 | 4.55E-02 | 8.93E-06 | 3.93E-01 | 8.68E+00 | 9.07E+00 | 9.07E+00 | 4.67E-01 | 1.40E+00 | 8E-01 | 3E-01 | **2E+01** | **6E+00** |
| | **Barium** | 0.00E+00 | 4.76E-01 | 0.00E+00 | 3.93E-01 | 7.86E-01 | 6.90E-03 | 1.66E+00 | 1.26E+00 | 2.92E+00 | 2.93E+00 | 2.08E+01 | 4.17E+01 | 8E-02 | 4E-02 | 6E-02 | 3E-02 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.57E-01 | 7.31E-02 | 1.03E-03 | 8.74E-01 | 1.67E-01 | 1.04E+00 | 1.04E+00 | 2.66E+00 | 2.80E+00 | 3E-01 | 3E-01 | 6E-02 | 6E-02 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 2.97E-02 | 3.56E-02 | 6.95E-04 | 1.12E+00 | 2.70E-01 | 1.39E+00 | 1.39E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 4E-02 | 3E-02 |
| | **Lead** | 0.00E+00 | 4.67E-02 | 0.00E+00 | 1.37E-01 | 2.30E-01 | 3.84E-03 | 3.41E-01 | 2.76E-01 | 6.18E-01 | 6.22E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 1E-01 | 2E-01 | 8E-02 |
| | **Mercury** | 0.00E+00 | 2.40E-02 | 0.00E+00 | 6.51E-03 | 1.25E-01 | 2.45E-05 | 7.49E-03 | 1.49E-01 | 1.57E-01 | 1.57E-01 | 2.27E-02 | 6.80E-02 | 3E-01 | 1E-01 | **7E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.05E-01 | 6.26E-02 | 9.75E-04 | 5.41E-01 | 1.56E-01 | 6.97E-01 | 6.98E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 5E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 8.64E+00 | 0.00E+00 | 2.53E-02 | 4.55E-02 | 8.93E-06 | 3.93E-01 | 8.68E+00 | 9.07E+00 | 9.07E+00 | 4.33E-02 | 1.30E-01 | **9E+00** | **3E+00** | **2E+02** | **7E+01** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 4.45E-01 | 6.94E-02 | 1.40E-02 | 0.00E+00 | 1.30E-05 | 1.95E-01 | 7.11E-01 | 9.06E-01 | 9.06E-01 | 2.30E-01 | 6.80E-01 | 8E-01 | 3E-01 | **3E+00** | 1E+00 |
| | **Barium** | 0.00E+00 | 2.45E-02 | 1.63E-01 | 2.17E-01 | 0.00E+00 | 1.00E-02 | 1.51E+00 | 3.62E+00 | 5.14E+00 | 5.15E+00 | 5.18E+01 | 1.21E+02 | 3E-02 | 1E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 1.42E-02 | 8.67E-02 | 0.00E+00 | 1.49E-03 | 3.27E-01 | 2.50E-02 | 3.52E-01 | 3.53E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-02 | 9E-03 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 2.45E-03 | 1.64E-02 | 0.00E+00 | 1.01E-03 | 1.22E-01 | 8.46E-02 | 2.07E-01 | 2.08E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 |
| | **Lead** | 0.00E+00 | 2.40E-03 | 1.59E-02 | 7.57E-02 | 0.00E+00 | 5.59E-03 | 1.88E-01 | 4.18E-02 | 2.30E-01 | 2.35E-01 | 4.70E+00 | 8.90E+00 | 4E-02 | 2E-02 | 9E-03 | 5E-03 |
| | **Mercury** | 0.00E+00 | 1.23E-03 | 2.10E-03 | 3.59E-03 | 0.00E+00 | 3.57E-05 | 1.82E-02 | 8.93E-03 | 2.71E-02 | 2.71E-02 | 7.50E-02 | 1.50E-01 | 2E-01 | 1E-01 | 1E-01 | 6E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 1.99E-03 | 5.77E-02 | 0.00E+00 | 1.42E-03 | 1.46E-01 | 1.62E-02 | 1.62E-01 | 1.64E-01 | 4.16E+00 | 8.31E+00 | 4E-02 | 2E-02 | 4E-03 | 2E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 1.06E+00 | 1.10E-01 | 2.13E-02 | 3.82E-02 | 2.35E-05 | 2.05E+00 | 1.21E+00 | 3.25E+00 | 3.25E+00 | 2.30E-01 | 6.80E-01 | **9E+00** | **3E+00** | **5E+00** | **2E+00** |
| | **Barium** | 0.00E+00 | 5.84E-02 | 2.58E-01 | 3.30E-01 | 6.60E-01 | 1.82E-02 | 7.42E+00 | 9.76E-01 | 8.39E+00 | 8.41E+00 | 5.18E+01 | 1.21E+02 | 1E-01 | 6E-02 | 2E-02 | 8E-03 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 2.26E-02 | 1.32E-01 | 6.14E-02 | 2.70E-03 | 2.79E+00 | 9.55E-02 | 2.88E+00 | 2.89E+00 | 2.40E+00 | 2.82E+00 | **1E+00** | 1E+00 | 4E-02 | 3E-02 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 3.89E-03 | 2.49E-02 | 2.99E-02 | 1.83E-03 | 9.63E-01 | 6.26E-02 | 1.03E+00 | 1.03E+00 | 7.33E+00 | 1.00E+01 | 1E-01 | 1E-01 | 9E-03 | 6E-03 |
| | **Lead** | 0.00E+00 | 5.72E-03 | 2.53E-02 | 1.15E-01 | 1.93E-01 | 1.01E-02 | 1.63E+00 | 2.24E-01 | 1.85E+00 | 1.86E+00 | 4.70E+00 | 8.90E+00 | 3E-01 | 2E-01 | 5E-02 | 3E-02 |
| | **Mercury** | 0.00E+00 | 2.94E-03 | 3.33E-03 | 5.46E-03 | 1.05E-01 | 6.45E-05 | 1.98E-01 | 1.11E-01 | 3.09E-01 | 3.09E-01 | 7.50E-02 | 1.50E-01 | **3E+00** | **1E+00** | **1E+00** | 7E-01 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 3.16E-03 | 8.78E-02 | 5.25E-02 | 2.57E-03 | 1.21E+00 | 6.72E-02 | 1.28E+00 | 1.28E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 1E-01 | 2E-02 | 8E-03 |

**Table E3-22**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Barium** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Hawk - mid** | **tPCB-med** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **2E+02** | **7E+01** | **2E+02** | **7E+01** |
| **Raccoon - 1** | **tPCB** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Mercury** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Barium** | 2E-01 | 7E-02 | 2E-01 | 7E-02 |
| | **Chromium** | **1E+00** | 1E+00 | **1E+00** | 1E+00 |
| | **Cobalt** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Vanadium** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-23**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **3.75E-01** | **9.95E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.36E+02** | **1.72E+02** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.12E+01** | **1.60E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.00E+01** | **7.80E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.28E+01** | **5.03E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **7.06E-02** | **2.74E+01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **1.37E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **3.75E-01** | **9.95E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **3.75E-01** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **1.36E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **1.12E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **1.00E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **2.28E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **7.06E-02** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **3.75E-01** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **3.75E-01** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **1.36E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **1.12E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **1.00E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **2.28E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **7.06E-02** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **3.75E-01** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **1.36E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **1.12E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **1.00E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **2.28E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **7.06E-02** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-23**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-23**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-23**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-23**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 8.33E+01 | 8.67E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 8.33E+01 | 8.67E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-23**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.32E-01 | 0.00E+00 | 0.00E+00 | 4.42E-02 | 0.00E+00 | 6.99E-03 | 0.00E+00 | 3.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 5.56E+00 | 0.00E+00 | 0.00E+00 | 4.07E+00 | 0.00E+00 | 5.84E-01 | 0.00E+00 | 1.06E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 9.89E-02 | 0.00E+00 | 0.00E+00 | 3.76E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.11E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 3.14E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 5.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 5.60E-01 | 0.00E+00 | 0.00E+00 | 5.51E-01 | 0.00E+00 | 2.06E-02 | 0.00E+00 | 2.51E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 5.40E-02 | 0.00E+00 | 0.00E+00 | 2.86E-02 | 0.00E+00 | 1.37E-04 | 0.00E+00 | 2.75E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 9.90E-02 | 0.00E+00 | 0.00E+00 | 5.23E-01 | 0.00E+00 | 2.05E-02 | 0.00E+00 | 6.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.32E-01 | 0.00E+00 | 0.00E+00 | 4.42E-02 | 0.00E+00 | 6.99E-03 | 0.00E+00 | 3.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.55E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.86E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 3.59E-03 | 0.00E+00 | 3.25E-03 | 0.00E+00 | 1.71E-04 | 3.25E-03 | 0.00E+00 | 1.73E-03 | 0.00E+00 | 0.00E+00 | 6.65E-02 | 1.31E-01 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 1.40E+00 | 0.00E+00 | 2.99E-01 | 0.00E+00 | 1.43E-02 | 2.99E-01 | 0.00E+00 | 4.07E-02 | 0.00E+00 | 0.00E+00 | 3.41E+00 | 3.00E-02 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 1.19E-02 | 0.00E+00 | 2.76E-02 | 0.00E+00 | 1.98E-02 | 2.76E-02 | 0.00E+00 | 4.76E-03 | 0.00E+00 | 0.00E+00 | 4.28E-03 | 1.65E-03 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 6.71E-03 | 0.00E+00 | 2.30E-02 | 0.00E+00 | 4.95E-02 | 2.30E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 3.42E-04 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 8.45E-04 | 0.00E+00 | 4.05E-02 | 0.00E+00 | 5.04E-04 | 4.05E-02 | 0.00E+00 | 3.17E-03 | 0.00E+00 | 0.00E+00 | 2.27E-02 | 7.60E-04 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 4.17E-05 | 0.00E+00 | 2.10E-03 | 0.00E+00 | 3.35E-06 | 2.10E-03 | 0.00E+00 | 9.91E-07 | 0.00E+00 | 0.00E+00 | 1.35E-03 | 4.25E-03 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.91E-03 | 0.00E+00 | 3.83E-02 | 0.00E+00 | 5.02E-04 | 3.83E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 8.95E-03 | 3.94E-04 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 6.61E-03 | 0.00E+00 | 6.34E-02 | 0.00E+00 | 1.43E-03 | 2.71E-02 | 0.00E+00 | 7.76E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.57E+00 | 0.00E+00 | 5.83E+00 | 0.00E+00 | 1.19E-01 | 2.49E+00 | 0.00E+00 | 1.83E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.19E-02 | 0.00E+00 | 5.38E-01 | 0.00E+00 | 1.65E-01 | 2.30E-01 | 0.00E+00 | 2.14E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 1.24E-02 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 4.13E-01 | 1.92E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.56E-03 | 0.00E+00 | 7.91E-01 | 0.00E+00 | 4.20E-03 | 3.37E-01 | 0.00E+00 | 1.42E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 7.67E-05 | 0.00E+00 | 4.10E-02 | 0.00E+00 | 2.80E-05 | 1.75E-02 | 0.00E+00 | 4.46E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 3.52E-03 | 0.00E+00 | 7.49E-01 | 0.00E+00 | 4.19E-03 | 3.20E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-23**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-02 | 0.00E+00 | 4.23E-05 | 6.40E-02 | 3.62E+00 | 3.69E+00 | 3.69E+00 | 4.67E-01 | 1.40E+00 | 1E-01 | 5E-02 | **8E+00** | **3E+00** |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E+00 | 0.00E+00 | 3.27E-02 | 9.29E+00 | 1.62E+01 | 2.55E+01 | 2.55E+01 | 2.08E+01 | 4.17E+01 | 4E-01 | 2E-01 | 8E-01 | 4E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.82E-01 | 0.00E+00 | 4.86E-03 | 1.57E+00 | 1.21E+00 | 2.78E+00 | 2.78E+00 | 2.66E+00 | 2.80E+00 | 6E-01 | 6E-01 | 5E-01 | 4E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.41E-01 | 0.00E+00 | 3.29E-03 | 2.68E+00 | 1.27E+00 | 3.95E+00 | 3.95E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 3E-01 | 2E-01 | 2E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.78E-01 | 0.00E+00 | 1.82E-02 | 1.35E+00 | 3.07E+00 | 4.42E+00 | 4.44E+00 | 1.63E+00 | 3.26E+00 | 8E-01 | 4E-01 | **2E+00** | 9E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.41E-03 | 0.00E+00 | 1.16E-04 | 3.11E-02 | 2.80E+00 | 2.83E+00 | 2.83E+00 | 2.27E-02 | 6.80E-02 | **1E+00** | 5E-01 | **1E+02** | **4E+01** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.78E-01 | 0.00E+00 | 4.62E-03 | 1.32E+00 | 7.48E-01 | 2.07E+00 | 2.07E+00 | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **2E+00** | **1E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-02 | 0.00E+00 | 4.23E-05 | 6.40E-02 | 3.62E+00 | 3.69E+00 | 3.69E+00 | 4.33E-02 | 1.30E-01 | **1E+00** | 5E-01 | **8E+01** | **3E+01** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 8.64E+00 | 0.00E+00 | 1.71E-03 | 4.55E-02 | 8.93E-06 | 8.64E-02 | 8.68E+00 | 8.77E+00 | 8.77E+00 | 4.67E-01 | 1.40E+00 | 2E-01 | 6E-02 | **2E+01** | **6E+00** |
| | **Barium** | 0.00E+00 | 4.76E-01 | 0.00E+00 | 6.21E-01 | 7.86E-01 | 6.90E-03 | 2.62E+00 | 1.26E+00 | 3.88E+00 | 3.89E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 6E-02 | 6E-02 | 3E-02 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 5.12E-02 | 7.31E-02 | 1.03E-03 | 2.85E-01 | 1.67E-01 | 4.52E-01 | 4.53E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 6E-02 | 6E-02 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 4.57E-02 | 3.56E-02 | 6.95E-04 | 1.14E+00 | 2.70E-01 | 1.41E+00 | 1.41E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 4E-02 | 3E-02 |
| | **Lead** | 0.00E+00 | 4.67E-02 | 0.00E+00 | 1.04E-01 | 2.30E-01 | 3.84E-03 | 2.60E-01 | 2.76E-01 | 5.36E-01 | 5.40E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 0.00E+00 | 2.40E-02 | 0.00E+00 | 3.23E-04 | 1.25E-01 | 2.45E-05 | 3.71E-04 | 1.49E-01 | 1.50E-01 | 1.50E-01 | 2.27E-02 | 6.80E-02 | 2E-02 | 5E-03 | **7E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.04E-01 | 6.26E-02 | 9.75E-04 | 5.40E-01 | 1.56E-01 | 6.97E-01 | 6.98E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 5E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 8.64E+00 | 0.00E+00 | 1.71E-03 | 4.55E-02 | 8.93E-06 | 8.64E-02 | 8.68E+00 | 8.77E+00 | 8.77E+00 | 4.33E-02 | 1.30E-01 | **2E+00** | 7E-01 | **2E+02** | **7E+01** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 4.45E-01 | 6.94E-02 | 9.46E-04 | 0.00E+00 | 1.30E-05 | 1.29E-02 | 7.11E-01 | 7.24E-01 | 7.24E-01 | 2.30E-01 | 6.80E-01 | 6E-02 | 2E-02 | **3E+00** | 1E+00 |
| | **Barium** | 0.00E+00 | 2.45E-02 | 1.63E-01 | 3.43E-01 | 0.00E+00 | 1.00E-02 | 2.39E+00 | 3.62E+00 | 6.01E+00 | 6.02E+00 | 5.18E+01 | 1.21E+02 | 5E-02 | 2E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 1.42E-02 | 2.82E-02 | 0.00E+00 | 1.49E-03 | 1.20E-01 | 2.50E-02 | 1.45E-01 | 1.46E-01 | 2.40E+00 | 2.82E+00 | 5E-02 | 4E-02 | 1E-02 | 9E-03 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 2.45E-03 | 2.52E-02 | 0.00E+00 | 1.01E-03 | 1.50E-01 | 8.46E-02 | 2.34E-01 | 2.35E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 |
| | **Lead** | 0.00E+00 | 2.40E-03 | 1.59E-02 | 5.75E-02 | 0.00E+00 | 5.59E-03 | 1.43E-01 | 4.18E-02 | 1.85E-01 | 1.90E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 2E-02 | 9E-03 | 5E-03 |
| | **Mercury** | 0.00E+00 | 1.23E-03 | 2.10E-03 | 1.78E-04 | 0.00E+00 | 3.57E-05 | 4.42E-03 | 8.93E-03 | 1.33E-02 | 1.34E-02 | 7.50E-02 | 1.50E-01 | 6E-02 | 3E-02 | 1E-01 | 6E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 1.99E-03 | 5.75E-02 | 0.00E+00 | 1.42E-03 | 1.45E-01 | 1.62E-02 | 1.62E-01 | 1.63E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 4E-03 | 2E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 1.06E+00 | 1.10E-01 | 1.44E-03 | 3.82E-02 | 2.35E-05 | 1.08E-01 | 1.21E+00 | 1.32E+00 | 1.32E+00 | 2.30E-01 | 6.80E-01 | 5E-01 | 2E-01 | **5E+00** | **2E+00** |
| | **Barium** | 0.00E+00 | 5.84E-02 | 2.58E-01 | 5.22E-01 | 6.60E-01 | 1.82E-02 | 1.17E+01 | 9.76E-01 | 1.27E+01 | 1.27E+01 | 5.18E+01 | 1.21E+02 | 2E-01 | 1E-01 | 2E-02 | 8E-03 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 2.26E-02 | 4.29E-02 | 6.14E-02 | 2.70E-03 | 1.02E+00 | 9.55E-02 | 1.11E+00 | 1.12E+00 | 2.40E+00 | 2.82E+00 | 4E-01 | 4E-01 | 4E-02 | 3E-02 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 3.89E-03 | 3.83E-02 | 2.99E-02 | 1.83E-03 | 1.20E+00 | 6.26E-02 | 1.27E+00 | 1.27E+00 | 7.33E+00 | 1.00E+01 | 2E-01 | 1E-01 | 9E-03 | 6E-03 |
| | **Lead** | 0.00E+00 | 5.72E-03 | 2.53E-02 | 8.74E-02 | 1.93E-01 | 1.01E-02 | 1.24E+00 | 2.24E-01 | 1.46E+00 | 1.47E+00 | 4.70E+00 | 8.90E+00 | 3E-01 | 1E-01 | 5E-02 | 3E-02 |
| | **Mercury** | 0.00E+00 | 2.94E-03 | 3.33E-03 | 2.71E-04 | 1.05E-01 | 6.45E-05 | 5.89E-02 | 1.11E-01 | 1.70E-01 | 1.70E-01 | 7.50E-02 | 1.50E-01 | 8E-01 | 4E-01 | **1E+00** | 7E-01 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 3.16E-03 | 8.74E-02 | 5.25E-02 | 2.57E-03 | 1.20E+00 | 6.72E-02 | 1.27E+00 | 1.27E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 1E-01 | 2E-02 | 8E-03 |

**Table E3-23**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Chromium** | 1E+00 | 1E+00 | 1E+00 | 1E+00 |
| | **Cobalt** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Hawk - mid** | **tPCB-med** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **2E+02** | **7E+01** | **2E+02** | **7E+01** |
| **Raccoon - 1** | **tPCB** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Barium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 6E-02 | 5E-02 | 6E-02 | 5E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Vanadium** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Barium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 5E-01 | 4E-01 | 5E-01 | 4E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-24**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.76E+00** | **9.95E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.38E+02** | **1.72E+02** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.34E+01** | **1.60E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.14E+01** | **7.80E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **4.48E+01** | **5.03E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.61E-01** | **2.74E+01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.94E+01** | **1.37E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.76E+00** | **9.95E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.76E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **1.38E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **1.34E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **1.14E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **4.48E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **1.61E-01** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **1.94E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.76E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.76E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **1.38E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **1.34E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **1.14E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **4.48E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **1.61E-01** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **1.94E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **1.76E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **1.38E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **1.34E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **1.14E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **4.48E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **1.61E-01** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **1.94E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-24**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-24**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-24**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-24**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 8.33E+01 | 8.67E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 8.33E+01 | 8.67E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-24**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.32E-01 | 0.00E+00 | 0.00E+00 | 2.82E-01 | 0.00E+00 | 3.28E-02 | 0.00E+00 | 3.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 5.56E+00 | 0.00E+00 | 0.00E+00 | 4.13E+00 | 0.00E+00 | 5.93E-01 | 0.00E+00 | 1.06E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 9.89E-02 | 0.00E+00 | 0.00E+00 | 4.49E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.11E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 3.58E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 5.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 5.60E-01 | 0.00E+00 | 0.00E+00 | 1.08E+00 | 0.00E+00 | 4.05E-02 | 0.00E+00 | 2.51E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 5.40E-02 | 0.00E+00 | 0.00E+00 | 3.29E-02 | 0.00E+00 | 3.13E-04 | 0.00E+00 | 2.75E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 9.90E-02 | 0.00E+00 | 0.00E+00 | 4.45E-01 | 0.00E+00 | 1.75E-02 | 0.00E+00 | 6.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.32E-01 | 0.00E+00 | 0.00E+00 | 2.82E-01 | 0.00E+00 | 3.28E-02 | 0.00E+00 | 3.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.79E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.05E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.17E-02 | 0.00E+00 | 2.07E-02 | 0.00E+00 | 8.03E-04 | 2.07E-02 | 0.00E+00 | 4.01E-03 | 0.00E+00 | 0.00E+00 | 6.65E-02 | 1.31E-01 |
| | **Barium** | 0.00E+00 | 1.42E+00 | 0.00E+00 | 3.03E-01 | 0.00E+00 | 1.45E-02 | 3.03E-01 | 0.00E+00 | 4.13E-02 | 0.00E+00 | 0.00E+00 | 3.41E+00 | 3.00E-02 |
| | **Chromium** | 0.00E+00 | 1.42E-02 | 0.00E+00 | 3.30E-02 | 0.00E+00 | 1.98E-02 | 3.30E-02 | 0.00E+00 | 5.70E-03 | 0.00E+00 | 0.00E+00 | 4.28E-03 | 1.65E-03 |
| | **Cobalt** | 0.00E+00 | 7.65E-03 | 0.00E+00 | 2.62E-02 | 0.00E+00 | 4.95E-02 | 2.62E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 3.42E-04 |
| | **Lead** | 0.00E+00 | 1.66E-03 | 0.00E+00 | 7.95E-02 | 0.00E+00 | 9.90E-04 | 7.95E-02 | 0.00E+00 | 6.22E-03 | 0.00E+00 | 0.00E+00 | 2.27E-02 | 7.60E-04 |
| | **Mercury** | 0.00E+00 | 9.50E-05 | 0.00E+00 | 2.41E-03 | 0.00E+00 | 7.65E-06 | 2.41E-03 | 0.00E+00 | 2.26E-06 | 0.00E+00 | 0.00E+00 | 1.35E-03 | 4.25E-03 |
| | **Vanadium** | 0.00E+00 | 1.63E-03 | 0.00E+00 | 3.26E-02 | 0.00E+00 | 4.27E-04 | 3.26E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 8.95E-03 | 3.94E-04 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 2.15E-02 | 0.00E+00 | 4.05E-01 | 0.00E+00 | 6.69E-03 | 1.73E-01 | 0.00E+00 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.61E+00 | 0.00E+00 | 5.92E+00 | 0.00E+00 | 1.21E-01 | 2.53E+00 | 0.00E+00 | 1.86E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.62E-02 | 0.00E+00 | 6.44E-01 | 0.00E+00 | 1.65E-01 | 2.75E-01 | 0.00E+00 | 2.56E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 1.41E-02 | 0.00E+00 | 5.13E-01 | 0.00E+00 | 4.13E-01 | 2.19E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 3.06E-03 | 0.00E+00 | 1.55E+00 | 0.00E+00 | 8.26E-03 | 6.63E-01 | 0.00E+00 | 2.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.75E-04 | 0.00E+00 | 4.72E-02 | 0.00E+00 | 6.38E-05 | 2.01E-02 | 0.00E+00 | 1.02E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.99E-03 | 0.00E+00 | 6.37E-01 | 0.00E+00 | 3.56E-03 | 2.72E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-24**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.01E-02 | 0.00E+00 | 4.23E-05 | 3.75E-01 | 3.62E+00 | 4.00E+00 | 4.00E+00 | 4.67E-01 | 1.40E+00 | 8E-01 | 3E-01 | **8E+00** | **3E+00** |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.71E+00 | 0.00E+00 | 3.27E-02 | 9.43E+00 | 1.62E+01 | 2.56E+01 | 2.57E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 2E-01 | 8E-01 | 4E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.57E-01 | 0.00E+00 | 4.86E-03 | 1.72E+00 | 1.21E+00 | 2.92E+00 | 2.93E+00 | 2.66E+00 | 2.80E+00 | 6E-01 | 6E-01 | 5E-01 | 4E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.89E-01 | 0.00E+00 | 3.29E-03 | 2.77E+00 | 1.27E+00 | 4.04E+00 | 4.04E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 2E-01 | 2E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.53E+00 | 0.00E+00 | 1.82E-02 | 2.65E+00 | 3.07E+00 | 5.73E+00 | 5.75E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 8E-01 | **2E+00** | 9E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.49E-03 | 0.00E+00 | 1.16E-04 | 3.87E-02 | 2.80E+00 | 2.84E+00 | 2.84E+00 | 2.27E-02 | 6.80E-02 | **2E+00** | 6E-01 | **1E+02** | **4E+01** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.62E-01 | 0.00E+00 | 4.62E-03 | 1.12E+00 | 7.48E-01 | 1.87E+00 | 1.88E+00 | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **2E+00** | **1E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.01E-02 | 0.00E+00 | 4.23E-05 | 3.75E-01 | 3.62E+00 | 4.00E+00 | 4.00E+00 | 4.33E-02 | 1.30E-01 | **9E+00** | **3E+00** | **8E+01** | **3E+01** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 8.64E+00 | 0.00E+00 | 8.04E-03 | 4.55E-02 | 8.93E-06 | 2.05E-01 | 8.68E+00 | 8.89E+00 | 8.89E+00 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | **2E+01** | **6E+00** |
| | **Barium** | 0.00E+00 | 0.00E+00 | 4.76E-01 | 0.00E+00 | 6.31E-01 | 7.86E-01 | 6.90E-03 | 2.66E+00 | 1.26E+00 | 3.92E+00 | 3.93E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 6E-02 | 6E-02 | 3E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 6.12E-02 | 7.31E-02 | 1.03E-03 | 3.41E-01 | 1.67E-01 | 5.08E-01 | 5.09E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 6E-02 | 6E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00 | 5.21E-02 | 3.56E-02 | 6.95E-04 | 1.14E+00 | 2.70E-01 | 1.41E+00 | 1.41E+00 | 7.61E+00 | 7.80E+00 | 2E-01 | 1E-01 | 4E-02 | 3E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.67E-02 | 0.00E+00 | 2.05E-01 | 2.30E-01 | 3.84E-03 | 5.10E-01 | 2.76E-01 | 7.86E-01 | 7.90E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 2E-01 | 2E-01 | 8E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.40E-02 | 0.00E+00 | 7.36E-04 | 1.25E-01 | 2.45E-05 | 8.46E-04 | 1.49E-01 | 1.50E-01 | 1.50E-01 | 2.27E-02 | 6.80E-02 | 4E-02 | 1E-02 | **7E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 8.86E-02 | 6.26E-02 | 9.75E-04 | 5.25E-01 | 1.56E-01 | 6.81E-01 | 6.82E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 7E-01 | 5E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 8.64E+00 | 0.00E+00 | 8.04E-03 | 4.55E-02 | 8.93E-06 | 2.05E-01 | 8.68E+00 | 8.89E+00 | 8.89E+00 | 4.33E-02 | 1.30E-01 | **5E+00** | **2E+00** | **2E+02** | **7E+01** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 0.00E+00 | 4.45E-01 | 6.94E-02 | 4.44E-03 | 0.00E+00 | 1.30E-05 | 6.24E-02 | 7.11E-01 | 7.74E-01 | 7.74E-01 | 2.30E-01 | 6.80E-01 | 3E-01 | 9E-02 | **3E+00** | 1E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.45E-02 | 1.63E-01 | 3.48E-01 | 0.00E+00 | 1.00E-02 | 2.43E+00 | 3.62E+00 | 6.05E+00 | 6.06E+00 | 5.18E+01 | 1.21E+02 | 5E-02 | 2E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.42E-02 | 3.38E-02 | 0.00E+00 | 1.49E-03 | 1.39E-01 | 2.50E-02 | 1.64E-01 | 1.66E-01 | 2.40E+00 | 2.82E+00 | 6E-02 | 5E-02 | 1E-02 | 9E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.21E-02 | 2.45E-03 | 2.87E-02 | 0.00E+00 | 1.01E-03 | 1.61E-01 | 8.46E-02 | 2.45E-01 | 2.46E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 2E-02 | 1E-02 | 8E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 2.40E-03 | 1.59E-02 | 1.13E-01 | 0.00E+00 | 5.59E-03 | 2.81E-01 | 4.18E-02 | 3.23E-01 | 3.28E-01 | 4.70E+00 | 8.90E+00 | 6E-02 | 3E-02 | 9E-03 | 5E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.23E-03 | 2.10E-03 | 4.06E-04 | 0.00E+00 | 3.57E-05 | 5.34E-03 | 8.93E-03 | 1.43E-02 | 1.43E-02 | 7.50E-02 | 1.50E-01 | 7E-02 | 4E-02 | 1E-01 | 6E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.99E-03 | 4.89E-02 | 0.00E+00 | 1.42E-03 | 1.25E-01 | 1.62E-02 | 1.41E-01 | 1.43E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 4E-03 | 2E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.06E+00 | 1.10E-01 | 6.75E-03 | 3.82E-02 | 2.35E-05 | 6.30E-01 | 1.21E+00 | 1.84E+00 | 1.84E+00 | 2.30E-01 | 6.80E-01 | **3E+00** | 9E-01 | **5E+00** | **2E+00** |
| | **Barium** | 0.00E+00 | 0.00E+00 | 5.84E-02 | 2.58E-01 | 5.29E-01 | 6.60E-01 | 1.82E-02 | 1.19E+01 | 9.76E-01 | 1.29E+01 | 1.29E+01 | 5.18E+01 | 1.21E+02 | 2E-01 | 1E-01 | 2E-02 | 8E-03 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.26E-02 | 5.14E-02 | 6.14E-02 | 2.70E-03 | 1.19E+00 | 9.55E-02 | 1.28E+00 | 1.29E+00 | 2.40E+00 | 2.82E+00 | 5E-01 | 4E-01 | 4E-02 | 3E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.88E-02 | 3.89E-03 | 4.37E-02 | 2.99E-02 | 1.83E-03 | 1.30E+00 | 6.26E-02 | 1.36E+00 | 1.37E+00 | 7.33E+00 | 1.00E+01 | 2E-01 | 1E-01 | 9E-03 | 6E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 5.72E-03 | 2.53E-02 | 1.72E-01 | 1.93E-01 | 1.01E-02 | 2.43E+00 | 2.24E-01 | 2.65E+00 | 2.66E+00 | 4.70E+00 | 8.90E+00 | 5E-01 | 3E-01 | 5E-02 | 3E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.94E-03 | 3.33E-03 | 6.17E-04 | 1.05E-01 | 6.45E-05 | 6.81E-02 | 1.11E-01 | 1.79E-01 | 1.80E-01 | 7.50E-02 | 1.50E-01 | 9E-01 | 5E-01 | **1E+00** | 7E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.16E-03 | 7.44E-02 | 5.25E-02 | 2.57E-03 | 1.03E+00 | 6.72E-02 | 1.10E+00 | 1.10E+00 | 4.16E+00 | 8.31E+00 | 2E-01 | 1E-01 | 2E-02 | 8E-03 |

**Table E3-24**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Barium** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Chromium** | **1E+00** | 1E+00 | **1E+00** | 1E+00 |
| | **Cobalt** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Mercury** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| | **Vanadium** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Hawk - mid** | **tPCB-med** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **2E+02** | **7E+01** | **2E+02** | **7E+01** |
| **Raccoon - 1** | **tPCB** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Barium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 7E-02 | 6E-02 | 7E-02 | 6E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 7E-02 | 4E-02 | 7E-02 | 4E-02 |
| | **Mercury** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Mercury** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-25**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C2, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **3.20E+01** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.38E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.34E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.14E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **4.48E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.89E-01** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **3.20E+01** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **3.20E+01** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.38E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **1.34E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **1.14E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **4.48E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **4.89E-01** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **2.28E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **3.20E+01** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **3.20E+01** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **3.20E+01** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Barium** | **1.38E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Chromium** | **1.34E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Cobalt** | **1.14E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Lead** | **4.48E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Mercury** | **4.89E-01** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Vanadium** | **2.28E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 2** | **tPCB-mink** | **3.20E+01** | **9.95E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **3.20E+01** | **9.95E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Barium** | **1.38E+02** | **1.72E+02** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Chromium** | **1.34E+01** | **1.60E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Cobalt** | **1.14E+01** | **7.80E+00** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Lead** | **4.48E+01** | **5.03E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Mercury** | **4.89E-01** | **2.74E+01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Vanadium** | **2.28E+01** | **1.37E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Raccoon - 1** | **tPCB** | **3.20E+01** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Barium** | **1.38E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Chromium** | **1.34E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Cobalt** | **1.14E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Lead** | **4.48E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Mercury** | **4.89E-01** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Vanadium** | **2.28E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| **Raccoon - 2** | **tPCB** | **3.20E+01** | **9.95E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Barium** | **1.38E+02** | **1.72E+02** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Chromium** | **1.34E+01** | **1.60E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Cobalt** | **1.14E+01** | **7.80E+00** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Lead** | **4.48E+01** | **5.03E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Mercury** | **4.89E-01** | **2.74E+01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Vanadium** | **2.28E+01** | **1.37E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |

**Table E3-25**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C2, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| Spotted Sandpiper - 1 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| Spotted Sandpiper - 1 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| GBH - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| GBH - high | tPCB-high | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| Mink - 1 | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 2 | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| Raccoon - 2 | tPCB | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Barium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Chromium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Cobalt | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Lead | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Mercury | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Vanadium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table E3-25**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C2, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| **GBH - mid** | **tPCB-med** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **GBH - high** | **tPCB-high** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| **Mink - 1** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Mink - 2** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 1** | **tPCB** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 2** | **tPCB** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |

**Table E3-25**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C2, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | |
|---|---|---|---|---|---|
| | | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **GBH - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **GBH - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **Mink - 1** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Mink - 2** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 1** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 2** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |

**Table E3-25**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C2, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles |
| Spotted Sandpiper - 1 - mid | tPCB-med | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | Barium | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | Chromium | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | Lead | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| Spotted Sandpiper - 1 - high | tPCB-high | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| GBH - mid | tPCB-med | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | Barium | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | Chromium | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | Lead | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| GBH - high | tPCB-high | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| Mink - 1 | tPCB-mink | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | Barium | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | Chromium | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | Lead | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| Mink - 2 | tPCB-mink | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | Barium | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | Chromium | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | Lead | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| Raccoon - 1 | tPCB | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | Barium | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | Chromium | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | Lead | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| Raccoon - 2 | tPCB | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | Barium | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | Chromium | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | Lead | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |

**Table E3-25**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C2, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 8.67E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 1.33E+01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.40E+01 | 1.01E+01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.03E-01 | 1.09E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 8.64E-01 | 8.71E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.57E+00 | 2.64E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 7.81E-02 | 1.18E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.33E-01 | 1.27E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 8.67E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 1.33E+01 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 8.67E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 8.67E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.97E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.97E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.25E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.23E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.26E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.22E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.23E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 8.67E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 3.03E-01 | 0.00E+00 | 4.02E-01 | 0.00E+00 | 1.46E-02 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.42E+00 | 0.00E+00 | 3.03E-01 | 0.00E+00 | 1.45E-02 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.42E-02 | 0.00E+00 | 3.30E-02 | 0.00E+00 | 1.98E-02 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.65E-03 | 0.00E+00 | 2.62E-02 | 0.00E+00 | 4.95E-02 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.66E-03 | 0.00E+00 | 7.95E-02 | 0.00E+00 | 9.90E-04 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.89E-04 | 0.00E+00 | 3.56E-03 | 0.00E+00 | 2.32E-05 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.91E-03 | 0.00E+00 | 3.83E-02 | 0.00E+00 | 5.02E-04 |
| **Raccoon - 2** | **tPCB** | 8.67E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.74E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.16E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.06E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.06E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-25**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C2, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.13E-01 | 1.59E-01 | 2.66E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E+00 | 2.76E+00 | 2.06E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.15E-01 | 2.56E-01 | 3.06E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-01 | 1.25E-01 | 2.07E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.18E-01 | 8.06E-01 | 1.14E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.84E-03 | 4.39E-01 | 7.31E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.65E-01 | 2.20E-01 | 2.91E-03 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.13E-01 | 1.59E-01 | 2.66E-05 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 2.41E-02 | 0.00E+00 | 0.00E+00 | 3.36E-02 | 3.66E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.07E-01 | 0.00E+00 | 3.50E-02 | 7.05E-06 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 5.12E-02 | 0.00E+00 | 0.00E+00 | 1.72E+00 | 8.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E+00 | 0.00E+00 | 6.06E-01 | 5.45E-03 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 7.05E-03 | 0.00E+00 | 0.00E+00 | 2.16E-03 | 4.63E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-01 | 0.00E+00 | 5.63E-02 | 8.10E-04 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 9.58E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-02 | 0.00E+00 | 2.75E-02 | 5.49E-04 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 7.71E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.13E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 0.00E+00 | 1.77E-01 | 3.03E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 8.50E-06 | 0.00E+00 | 0.00E+00 | 6.80E-04 | 1.19E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-02 | 0.00E+00 | 9.65E-02 | 1.94E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 4.52E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-02 | 0.00E+00 | 4.82E-02 | 7.70E-04 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 2.41E-02 | 0.00E+00 | 0.00E+00 | 3.36E-02 | 3.66E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.07E-01 | 0.00E+00 | 3.50E-02 | 7.05E-06 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 0.00E+00 | 8.49E-02 | 0.00E+00 | 0.00E+00 | 1.72E+00 | 0.00E+00 | 1.11E+00 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 0.00E+00 | 8.49E-02 | 0.00E+00 | 0.00E+00 | 1.72E+00 | 0.00E+00 | 1.11E+00 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 6.33E-01 | 0.00E+00 | 0.00E+00 | 4.35E+00 | 0.00E+00 | 0.00E+00 | 1.68E+00 | 0.00E+00 | 2.60E+00 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 8.72E-02 | 0.00E+00 | 0.00E+00 | 5.46E-03 | 0.00E+00 | 0.00E+00 | 9.84E-02 | 0.00E+00 | 2.27E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 3.91E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 9.52E-02 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 2.54E-01 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.05E-04 | 0.00E+00 | 0.00E+00 | 1.72E-03 | 0.00E+00 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 3.35E-02 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 0.00E+00 | 2.28E-02 | 0.00E+00 | 3.18E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 4.06E-02 | 0.00E+00 | 0.00E+00 | 3.77E-02 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 0.00E+00 | 1.28E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 4.06E-02 | 0.00E+00 | 0.00E+00 | 3.77E-02 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 0.00E+00 | 1.28E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 8.63E-02 | 0.00E+00 | 0.00E+00 | 1.93E+00 | 0.00E+00 | 0.00E+00 | 6.87E+00 | 0.00E+00 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.19E-02 | 0.00E+00 | 0.00E+00 | 2.43E-03 | 0.00E+00 | 0.00E+00 | 4.03E-01 | 0.00E+00 | 2.62E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 4.51E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.30E-02 | 0.00E+00 | 0.00E+00 | 1.29E-02 | 0.00E+00 | 0.00E+00 | 4.66E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.43E-05 | 0.00E+00 | 0.00E+00 | 7.64E-04 | 0.00E+00 | 0.00E+00 | 1.63E-01 | 0.00E+00 | 3.87E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 5.08E-03 | 0.00E+00 | 0.00E+00 | 9.35E-02 | 0.00E+00 | 3.67E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| **Raccoon - 1** | **tPCB** | 4.02E-01 | 0.00E+00 | 1.95E-02 | 0.00E+00 | 0.00E+00 | 6.65E-02 | 1.31E-01 | 0.00E+00 | 0.00E+00 | 4.45E-01 | 6.94E-02 | 8.07E-02 | 0.00E+00 | 1.30E-05 |
| | **Barium** | 3.03E-01 | 0.00E+00 | 4.13E-02 | 0.00E+00 | 0.00E+00 | 3.41E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 2.45E-02 | 1.63E-01 | 3.48E-01 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | 3.30E-02 | 0.00E+00 | 5.70E-03 | 0.00E+00 | 0.00E+00 | 4.28E-03 | 1.65E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.42E-02 | 3.38E-02 | 0.00E+00 | 1.49E-03 |
| | **Cobalt** | 2.62E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 3.42E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 2.45E-03 | 2.87E-02 | 0.00E+00 | 1.01E-03 |
| | **Lead** | 7.95E-02 | 0.00E+00 | 6.22E-03 | 0.00E+00 | 0.00E+00 | 2.27E-02 | 7.60E-04 | 0.00E+00 | 0.00E+00 | 2.40E-03 | 1.59E-02 | 1.13E-01 | 0.00E+00 | 5.59E-03 |
| | **Mercury** | 3.56E-03 | 0.00E+00 | 6.87E-06 | 0.00E+00 | 0.00E+00 | 1.35E-03 | 4.25E-03 | 0.00E+00 | 0.00E+00 | 1.23E-03 | 2.10E-03 | 1.23E-03 | 0.00E+00 | 3.57E-05 |
| | **Vanadium** | 3.83E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 8.95E-03 | 3.94E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.99E-03 | 5.75E-02 | 0.00E+00 | 1.42E-03 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.88E-01 | 3.65E-01 | 6.65E-02 | 1.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 2.51E-02 | 1.30E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.48E-01 | 1.26E-01 | 4.79E-01 | 3.41E+00 | 3.14E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.50E-01 | 0.00E+00 | 4.34E-01 | 1.00E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.04E-02 | 4.55E-03 | 7.08E-02 | 4.28E-03 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.69E-02 | 0.00E+00 | 4.03E-02 | 1.49E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 7.96E-02 | 7.82E-03 | 4.59E-02 | 6.97E-02 | 3.57E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-03 | 0.00E+00 | 1.97E-02 | 1.01E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 2.23E-02 | 3.23E-02 | 1.82E-01 | 2.27E-02 | 7.94E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.37E-02 | 0.00E+00 | 1.27E-01 | 5.59E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.46E-05 | 2.21E-02 | 3.08E-02 | 1.35E-03 | 4.44E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-03 | 0.00E+00 | 6.91E-02 | 3.57E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 3.19E-02 | 4.82E-03 | 2.65E-02 | 8.95E-03 | 4.12E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-03 | 0.00E+00 | 3.45E-02 | 1.42E-03 |

**Table E3-25**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C2, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.39E+01 | 1.17E+00 | 1.50E+01 | 1.50E+01 | 4.67E-01 | 1.40E+00 | **3E+01** | **1E+01** | **2E+00** | 8E-01 | **3E+01** | **1E+01** | **3E+01** |
| | **Barium** | 1.23E+01 | 1.67E+01 | 2.90E+01 | 2.90E+01 | 2.08E+01 | 4.17E+01 | 6E-01 | 3E-01 | 8E-01 | 4E-01 | **1E+00** | 7E-01 | **1E+00** |
| | **Chromium** | 1.31E+00 | 7.59E-01 | 2.07E+00 | 2.07E+00 | 2.66E+00 | 2.80E+00 | 5E-01 | 5E-01 | 3E-01 | 3E-01 | 8E-01 | 7E-01 | 8E-01 |
| | **Cobalt** | 1.05E+00 | 9.89E-01 | 2.04E+00 | 2.04E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 3.36E+00 | 4.38E+00 | 7.73E+00 | 7.74E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 1E+00 | **3E+00** | **1E+00** | **5E+00** | **2E+00** | **5E+00** |
| | **Mercury** | 1.26E-01 | 5.17E-01 | 6.43E-01 | 6.43E-01 | 2.27E-02 | 6.80E-02 | **6E+00** | **2E+00** | **2E+01** | **8E+00** | **3E+01** | **9E+00** | **3E+01** |
| | **Vanadium** | 1.64E+00 | 7.53E-01 | 2.39E+00 | 2.39E+00 | 3.44E-01 | 7.00E-01 | **5E+00** | **2E+00** | **2E+00** | **1E+00** | **7E+00** | **3E+00** | **7E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.39E+01 | 1.17E+00 | 1.50E+01 | 1.50E+01 | 4.33E-02 | 1.30E-01 | **3E+02** | **1E+02** | **3E+01** | **9E+00** | **3E+02** | **1E+02** | **3E+02** |
| **GBH - mid** | **tPCB-med** | 2.41E-02 | 3.73E+01 | 3.73E+01 | 3.73E+01 | 4.67E-01 | 1.40E+00 | 5E-02 | 2E-02 | **8E+01** | **3E+01** | **8E+01** | **3E+01** | **8E+01** |
| | **Barium** | 5.12E-02 | 1.22E+01 | 1.22E+01 | 1.22E+01 | 2.08E+01 | 4.17E+01 | 2E-03 | 1E-03 | 6E-01 | 3E-01 | 6E-01 | 3E-01 | 6E-01 |
| | **Chromium** | 7.05E-03 | 6.46E-01 | 6.53E-01 | 6.53E-01 | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 2.75E-02 | 1.80E-01 | 2.07E-01 | 2.08E-01 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 2E-02 | 2E-02 | 3E-02 | 3E-02 | 3E-02 |
| | **Lead** | 7.71E-03 | 5.41E-01 | 5.49E-01 | 5.52E-01 | 1.63E+00 | 3.26E+00 | 5E-03 | 2E-03 | 3E-01 | 2E-01 | 3E-01 | 2E-01 | 3E-01 |
| | **Mercury** | 8.50E-06 | 1.31E+00 | 1.31E+00 | 1.31E+00 | 2.27E-02 | 6.80E-02 | 4E-04 | 1E-04 | **6E+01** | **2E+01** | **6E+01** | **2E+01** | **6E+01** |
| | **Vanadium** | 1.10E-02 | 1.81E-01 | 1.92E-01 | 1.92E-01 | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 5E-01 | 3E-01 | 6E-01 | 3E-01 | 6E-01 |
| **GBH - high** | **tPCB-high** | 2.41E-02 | 3.73E+01 | 3.73E+01 | 3.73E+01 | 4.33E-02 | 1.30E-01 | 6E-01 | 2E-01 | **9E+02** | **3E+02** | **9E+02** | **3E+02** | **9E+02** |
| **Mink - 1** | **tPCB-mink** | 2.98E-01 | 2.91E+00 | 3.21E+00 | 3.21E+00 | 5.00E-02 | 1.00E-01 | **6E+00** | **3E+00** | **6E+01** | **3E+01** | **6E+01** | **3E+01** | **6E+01** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 2.98E-01 | 2.91E+00 | 3.21E+00 | 3.21E+00 | na | 5.00E-02 | **--** | **6E+00** | **--** | **6E+01** | **--** | **6E+01** | **--** |
| | **Barium** | 6.33E-01 | 8.62E+00 | 9.25E+00 | 9.27E+00 | 5.18E+01 | 1.21E+02 | 1E-02 | 5E-03 | 2E-01 | 7E-02 | 2E-01 | 8E-02 | 2E-01 |
| | **Chromium** | 8.72E-02 | 3.31E-01 | 4.18E-01 | 4.20E-01 | 2.40E+00 | 2.82E+00 | 4E-02 | 3E-02 | 1E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 |
| | **Cobalt** | 3.40E-01 | 3.29E-01 | 6.69E-01 | 6.70E-01 | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 | 7E-02 | 9E-02 |
| | **Lead** | 9.52E-02 | 2.95E-01 | 3.90E-01 | 3.97E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 6E-02 | 3E-02 | 8E-02 | 4E-02 | 8E-02 |
| | **Mercury** | 1.05E-04 | 7.51E-02 | 7.52E-02 | 7.53E-02 | 7.50E-02 | 1.50E-01 | 1E-03 | 7E-04 | 1E+00 | 5E-01 | 1E+00 | 5E-01 | 1E+00 |
| | **Vanadium** | 1.36E-01 | 6.61E-02 | 2.02E-01 | 2.04E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 2E-02 | 8E-03 | 5E-02 | 2E-02 | 5E-02 |
| **Mink - 2** | **tPCB-mink** | 4.06E-02 | 7.21E+00 | 7.25E+00 | 7.25E+00 | 5.00E-02 | 1.00E-01 | 8E-01 | 4E-01 | **1E+02** | **7E+01** | **1E+02** | **7E+01** | **1E+02** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 4.06E-02 | 7.21E+00 | 7.25E+00 | 7.25E+00 | na | 5.00E-02 | **--** | 8E-01 | **--** | **1E+02** | **--** | **1E+02** | **--** |
| | **Barium** | 8.63E-02 | 9.23E+00 | 9.31E+00 | 9.32E+00 | 5.18E+01 | 1.21E+02 | 2E-03 | 7E-04 | 2E-01 | 8E-02 | 2E-01 | 8E-02 | 2E-01 |
| | **Chromium** | 1.19E-02 | 4.34E-01 | 4.46E-01 | 4.48E-01 | 2.40E+00 | 2.82E+00 | 5E-03 | 4E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 4.64E-02 | 8.83E-01 | 9.29E-01 | 9.30E-01 | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 |
| | **Lead** | 1.30E-02 | 1.01E-01 | 1.14E-01 | 1.21E-01 | 4.70E+00 | 8.90E+00 | 3E-03 | 1E-03 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 3E-02 |
| | **Mercury** | 1.43E-05 | 1.69E-01 | 1.69E-01 | 1.69E-01 | 7.50E-02 | 1.50E-01 | 2E-04 | 1E-04 | **2E+00** | **1E+00** | **2E+00** | **1E+00** | **2E+00** |
| | **Vanadium** | 1.85E-02 | 1.05E-01 | 1.23E-01 | 1.25E-01 | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 3E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 |
| **Raccoon - 1** | **tPCB** | 1.22E+00 | 7.11E-01 | 1.93E+00 | 1.93E+00 | 2.30E-01 | 6.80E-01 | **5E+00** | **2E+00** | **3E+00** | 1E+00 | **8E+00** | **3E+00** | **8E+00** |
| | **Barium** | 2.43E+00 | 3.62E+00 | 6.05E+00 | 6.06E+00 | 5.18E+01 | 1.21E+02 | 5E-02 | 2E-02 | 7E-02 | 3E-02 | 1E-01 | 5E-02 | 1E-01 |
| | **Chromium** | 1.39E-01 | 2.50E-02 | 1.64E-01 | 1.66E-01 | 2.40E+00 | 2.82E+00 | 6E-02 | 5E-02 | 1E-02 | 9E-03 | 7E-02 | 6E-02 | 7E-02 |
| | **Cobalt** | 1.61E-01 | 8.46E-02 | 2.45E-01 | 2.46E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 2E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 |
| | **Lead** | 2.81E-01 | 4.18E-02 | 3.23E-01 | 3.28E-01 | 4.70E+00 | 8.90E+00 | 6E-02 | 3E-02 | 9E-03 | 5E-03 | 7E-02 | 4E-02 | 7E-02 |
| | **Mercury** | 8.67E-03 | 8.93E-03 | 1.76E-02 | 1.76E-02 | 7.50E-02 | 1.50E-01 | 1E-01 | 6E-02 | 1E-01 | 6E-02 | 2E-01 | 1E-01 | 2E-01 |
| | **Vanadium** | 1.45E-01 | 1.62E-02 | 1.62E-01 | 1.63E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 4E-03 | 2E-03 | 4E-02 | 2E-02 | 4E-02 |
| **Raccoon - 2** | **tPCB** | 6.97E-02 | 2.32E+00 | 2.39E+00 | 2.39E+00 | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | **1E+01** | **3E+00** | **1E+01** | **4E+00** | **1E+01** |
| | **Barium** | 1.48E-01 | 6.57E+00 | 6.71E+00 | 6.72E+00 | 5.18E+01 | 1.21E+02 | 3E-03 | 1E-03 | 1E-01 | 5E-02 | 1E-01 | 6E-02 | 1E-01 |
| | **Chromium** | 2.04E-02 | 2.15E-01 | 2.35E-01 | 2.37E-01 | 2.40E+00 | 2.82E+00 | 9E-03 | 7E-03 | 9E-02 | 8E-02 | 1E-01 | 8E-02 | 1E-01 |
| | **Cobalt** | 7.96E-02 | 3.15E-01 | 3.94E-01 | 3.96E-01 | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 5E-02 | 4E-02 | 5E-02 |
| | **Lead** | 2.23E-02 | 5.52E-01 | 5.75E-01 | 5.80E-01 | 4.70E+00 | 8.90E+00 | 5E-03 | 3E-03 | 1E-01 | 6E-02 | 1E-01 | 6E-02 | 1E-01 |
| | **Mercury** | 2.46E-05 | 1.87E-01 | 1.87E-01 | 1.87E-01 | 7.50E-02 | 1.50E-01 | 3E-04 | 2E-04 | **2E+00** | **1E+00** | **2E+00** | **1E+00** | **2E+00** |
| | **Vanadium** | 3.19E-02 | 1.07E-01 | 1.39E-01 | 1.41E-01 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 3E-02 | 1E-02 | 3E-02 | 2E-02 | 3E-02 |

**Table E3-25**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C2, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients |
|---|---|---|
| | | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **1E+01** |
| | **Barium** | 7E-01 |
| | **Chromium** | 7E-01 |
| | **Cobalt** | 3E-01 |
| | **Lead** | **2E+00** |
| | **Mercury** | **9E+00** |
| | **Vanadium** | **3E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **1E+02** |
| **GBH - mid** | **tPCB-med** | **3E+01** |
| | **Barium** | 3E-01 |
| | **Chromium** | 2E-01 |
| | **Cobalt** | 3E-02 |
| | **Lead** | 2E-01 |
| | **Mercury** | **2E+01** |
| | **Vanadium** | 3E-01 |
| **GBH - high** | **tPCB-high** | **3E+02** |
| **Mink - 1** | **tPCB-mink** | **3E+01** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **6E+01** |
| | **Barium** | 8E-02 |
| | **Chromium** | 1E-01 |
| | **Cobalt** | 7E-02 |
| | **Lead** | 4E-02 |
| | **Mercury** | 5E-01 |
| | **Vanadium** | 2E-02 |
| **Mink - 2** | **tPCB-mink** | **7E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **1E+02** |
| | **Barium** | 8E-02 |
| | **Chromium** | 2E-01 |
| | **Cobalt** | 9E-02 |
| | **Lead** | 1E-02 |
| | **Mercury** | **1E+00** |
| | **Vanadium** | 2E-02 |
| **Raccoon - 1** | **tPCB** | **3E+00** |
| | **Barium** | 5E-02 |
| | **Chromium** | 6E-02 |
| | **Cobalt** | 2E-02 |
| | **Lead** | 4E-02 |
| | **Mercury** | 1E-01 |
| | **Vanadium** | 2E-02 |
| **Raccoon - 2** | **tPCB** | **4E+00** |
| | **Barium** | 6E-02 |
| | **Chromium** | 8E-02 |
| | **Cobalt** | 4E-02 |
| | **Lead** | 7E-02 |
| | **Mercury** | **1E+00** |
| | **Vanadium** | 2E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-26**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C2**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-26**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C2**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians |
| **Tree Swallow - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Tree Swallow - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 1 - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 2 - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Osprey - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Osprey - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Bat** | **tPCB** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Otter** | **tPCB-mink** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |

**Table E3-26**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C2**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Body Weight | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water |
| **Tree Swallow - mid** | **tPCB-med** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 5.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| | **Barium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 2.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 |
| | **Chromium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 |
| | **Cobalt** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 6.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 |
| | **Lead** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 |
| | **Mercury** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 7.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 |
| | **Vanadium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 |
| **Tree Swallow - high** | **tPCB-high** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 5.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-01 | 2.66E-05 |
| | **Barium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.51E+00 | 2.06E-02 |
| | **Chromium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.13E-01 | 3.06E-03 |
| | **Cobalt** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E-01 | 2.07E-03 |
| | **Lead** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E+00 | 1.14E-02 |
| | **Mercury** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.07E-02 | 0.00E+00 | 2.07E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.78E-01 | 7.31E-05 |
| | **Vanadium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.39E-01 | 2.91E-03 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-01 | 2.66E-05 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E+00 | 0.00E+00 | 0.00E+00 | 3.14E-02 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E+00 | 0.00E+00 | 0.00E+00 | 5.42E-01 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 0.00E+00 | 0.00E+00 | 5.04E-02 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 2.46E-02 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.87E-02 | 0.00E+00 | 0.00E+00 | 8.64E-02 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 4.32E-02 | 1.88E-03 |
| **Kingfisher - 1 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E+00 | 0.00E+00 | 0.00E+00 | 3.14E-02 | 1.72E-05 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-01 | 0.00E+00 | 0.00E+00 | 2.84E+00 | 0.00E+00 | 3.03E-01 | 3.14E-02 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E+00 | 0.00E+00 | 0.00E+00 | 3.95E+00 | 0.00E+00 | 3.47E-01 | 5.42E-01 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.33E+00 | 0.00E+00 | 1.42E-01 | 5.04E-02 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.23E-02 | 2.46E-02 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-02 | 0.00E+00 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 3.25E-02 | 1.59E-01 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.69E-03 | 0.00E+00 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 8.12E-03 | 8.64E-02 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 1.28E-02 | 4.32E-02 | 1.88E-03 |
| **Kingfisher - 2 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-01 | 0.00E+00 | 0.00E+00 | 2.84E+00 | 0.00E+00 | 3.03E-01 | 3.14E-02 | 1.72E-05 |
| **Osprey - mid** | **tPCB-med** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.54E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| | **Barium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 |
| | **Chromium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 |
| | **Cobalt** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 |
| | **Lead** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 |
| | **Mercury** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.20E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 |
| | **Vanadium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 |
| **Osprey - high** | **tPCB-high** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.54E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| **Bat** | **tPCB** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 4.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 |
| | **Barium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 |
| | **Chromium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 |
| | **Cobalt** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 5.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 |
| | **Lead** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 |
| | **Mercury** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 5.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 |
| | **Vanadium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 |
| **Otter** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-01 | 8.54E-01 | 2.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-01 | 8.54E-01 | 2.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| | **Barium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 1.17E-01 | 3.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 |
| | **Chromium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-02 | 1.46E-02 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 |
| | **Cobalt** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E-03 | 3.49E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 |
| | **Lead** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.15E-03 | 1.64E-03 | 2.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 |
| | **Mercury** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 1.13E-02 | 1.90E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 |
| | **Vanadium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-02 | 1.14E-03 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 |

**Table E3-26**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C2**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 5.42E+00 | 5.42E+00 | 4.67E-01 | 1.40E+00 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 2.72E+00 | 2.75E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 3.21E+00 | 3.21E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 6.82E-02 | 7.07E-02 | 7.61E+00 | 7.80E+00 | 9E-03 | 9E-03 | 9E-03 | 9E-03 |
| | **Lead** | 1.62E-01 | 1.76E-01 | 1.63E+00 | 3.26E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | 7.70E-02 | 7.71E-02 | 2.27E-02 | 6.80E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 1.40E-01 | 1.44E-01 | 3.44E-01 | 7.00E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | 5.42E+00 | 5.42E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 7.91E-01 | 7.91E-01 | 4.67E-01 | 1.40E+00 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Barium** | 1.62E+01 | 1.62E+01 | 2.08E+01 | 4.17E+01 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Chromium** | 1.20E+00 | 1.20E+00 | 2.66E+00 | 2.80E+00 | 5E-01 | 4E-01 | 5E-01 | 4E-01 |
| | **Cobalt** | 1.04E+00 | 1.04E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 2.68E+00 | 2.69E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 9.19E-01 | 9.19E-01 | 2.27E-02 | 6.80E-02 | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| | **Vanadium** | 8.94E-01 | 8.97E-01 | 3.44E-01 | 7.00E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 7.91E-01 | 7.91E-01 | 4.33E-02 | 1.30E-01 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | 3.77E+00 | 3.77E+00 | 4.67E-01 | 1.40E+00 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 5.73E+00 | 5.75E+00 | 2.08E+01 | 4.17E+01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 1.80E+00 | 1.80E+00 | 2.66E+00 | 2.80E+00 | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Cobalt** | 3.07E+00 | 3.07E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 4.85E-01 | 4.92E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 1E-01 | 3E-01 | 2E-01 |
| | **Mercury** | 1.15E-01 | 1.15E-01 | 2.27E-02 | 6.80E-02 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | 2.30E-01 | 2.32E-01 | 3.44E-01 | 7.00E-01 | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 3.77E+00 | 3.77E+00 | 4.33E-02 | 1.30E-01 | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | 3.29E+00 | 3.29E+00 | 4.67E-01 | 1.40E+00 | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Barium** | 1.08E+01 | 1.08E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Chromium** | 1.56E+00 | 1.57E+00 | 2.66E+00 | 2.80E+00 | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 2.95E+00 | 2.95E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 5.37E-01 | 5.45E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | 1.22E-01 | 1.22E-01 | 2.27E-02 | 6.80E-02 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | 2.40E-01 | 2.42E-01 | 3.44E-01 | 7.00E-01 | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 3.29E+00 | 3.29E+00 | 4.33E-02 | 1.30E-01 | **8E+01** | **3E+01** | **8E+01** | **3E+01** |
| **Osprey - mid** | **tPCB-med** | 3.54E+00 | 3.54E+00 | 4.67E-01 | 1.40E+00 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 1.04E+00 | 1.05E+00 | 2.08E+01 | 4.17E+01 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Chromium** | 3.22E-01 | 3.23E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 3.21E-02 | 3.28E-02 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 4E-03 | 4E-03 |
| | **Lead** | 3.86E-02 | 4.21E-02 | 1.63E+00 | 3.26E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 5.20E-02 | 5.20E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | 8.39E-02 | 8.48E-02 | 3.44E-01 | 7.00E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | 3.54E+00 | 3.54E+00 | 4.33E-02 | 1.30E-01 | **8E+01** | **3E+01** | **8E+01** | **3E+01** |
| **Bat** | **tPCB** | 4.00E+00 | 4.00E+00 | 2.30E-01 | 6.80E-01 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 2.01E+00 | 2.03E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.37E+00 | 2.37E+00 | 2.40E+00 | 2.82E+00 | 1E+00 | 8E-01 | 1E+00 | 8E-01 |
| | **Cobalt** | 5.03E-02 | 5.23E-02 | 7.33E+00 | 1.00E+01 | 7E-03 | 5E-03 | 7E-03 | 5E-03 |
| | **Lead** | 1.20E-01 | 1.30E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 5.69E-02 | 5.69E-02 | 7.50E-02 | 1.50E-01 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Vanadium** | 1.03E-01 | 1.06E-01 | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | 1.94E+00 | 1.94E+00 | 5.00E-02 | 1.00E-01 | **4E+01** | **2E+01** | **4E+01** | **2E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | 1.94E+00 | 1.94E+00 | na | 5.00E-02 | **--** | **4E+01** | **--** | **4E+01** |
| | **Barium** | 7.09E-01 | 7.19E-01 | 5.18E+01 | 1.21E+02 | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 2.07E-01 | 2.08E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Cobalt** | 2.13E-01 | 2.14E-01 | 7.33E+00 | 1.00E+01 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 3.24E-02 | 3.79E-02 | 4.70E+00 | 8.90E+00 | 7E-03 | 4E-03 | 8E-03 | 4E-03 |
| | **Mercury** | 2.55E-02 | 2.55E-02 | 7.50E-02 | 1.50E-01 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 3.34E-02 | 3.48E-02 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 8E-03 | 4E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-27**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **5.55E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.00E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **5.55E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Blue Jay - mid** | **tPCB-med** | **5.55E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.00E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **5.55E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **5.55E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.00E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **5.55E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Shrew - 1** | **tPCB** | **5.55E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.00E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **5.55E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.00E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **5.55E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.00E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **5.55E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.00E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **5.55E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.42E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **3.44E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.00E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.29E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-27**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-01 | 1.88E-05 | 1.45E-01 | 1.45E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.80E-02 | 5.16E-05 | 3.64E-02 | 3.64E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.75E-01 | 2.16E-03 | 1.01E+00 | 1.02E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.89E-01 | 8.08E-03 | 6.03E-01 | 6.11E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.49E-01 | 2.05E-03 | 4.67E-01 | 4.69E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-01 | 1.88E-05 | 1.45E-01 | 1.45E-01 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 1.19E-01 | 2.04E-05 | 9.11E-01 | 9.11E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 6.34E-04 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 3.05E-02 | 5.59E-05 | 1.32E-01 | 1.32E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 7.37E-01 | 2.34E-03 | 1.47E+00 | 1.48E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 6.42E-01 | 8.75E-03 | 2.61E+00 | 2.61E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 4.90E-01 | 2.22E-03 | 6.67E-01 | 6.69E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 1.19E-01 | 2.04E-05 | 9.11E-01 | 9.11E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 1.89E-01 | 4.23E-05 | 5.27E+00 | 5.27E+00 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 4.13E-03 | 2.04E-01 | 4.22E-01 | 0.00E+00 | 4.86E-02 | 1.16E-04 | 6.80E-01 | 6.80E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 1.17E+00 | 4.86E-03 | 4.21E+00 | 4.22E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 1.02E+00 | 1.82E-02 | 1.40E+01 | 1.40E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 7.81E-01 | 4.62E-03 | 1.86E+00 | 1.87E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 1.89E-01 | 4.23E-05 | 5.27E+00 | 5.27E+00 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.94E-03 | 3.13E-03 | 2.14E+00 | 1.47E+00 | 0.00E+00 | 2.13E-02 | 2.35E-05 | 3.64E+00 | 3.64E+00 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 1.23E-03 | 2.64E-01 | 1.82E-01 | 0.00E+00 | 5.46E-03 | 6.45E-05 | 4.54E-01 | 4.54E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 1.32E-01 | 2.70E-03 | 1.96E+00 | 1.96E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 1.15E-01 | 1.01E-02 | 9.37E+00 | 9.38E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 8.78E-02 | 2.57E-03 | 8.48E-01 | 8.51E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.77E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.63E-03 | 1.03E-05 | 5.39E-03 | 5.40E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.17E-04 | 2.84E-05 | 1.29E-03 | 1.32E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-02 | 1.19E-03 | 4.52E-02 | 4.64E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.79E-03 | 4.44E-03 | 1.03E-02 | 1.47E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.71E-03 | 1.13E-03 | 8.50E-03 | 9.63E-03 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.77E-01 | 1.42E-02 | 1.72E-05 | 3.92E-01 | 3.92E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-03 | 3.63E-03 | 4.73E-05 | 6.41E-03 | 6.46E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 8.78E-02 | 1.98E-03 | 3.66E-01 | 3.68E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 7.66E-02 | 7.40E-03 | 3.92E-01 | 3.99E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 5.85E-02 | 1.88E-03 | 4.29E-01 | 4.31E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.65E-03 | 0.00E+00 | 6.84E-02 | 0.00E+00 | 1.90E-01 | 5.88E-03 | 1.33E-05 | 2.66E-01 | 2.66E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 8.46E-03 | 0.00E+00 | 1.40E-03 | 1.51E-03 | 3.66E-05 | 1.18E-02 | 1.18E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 1.40E-01 | 3.65E-02 | 1.53E-03 | 2.22E-01 | 2.23E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 1.59E-01 | 3.18E-02 | 5.72E-03 | 3.67E-01 | 3.72E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 1.87E-01 | 2.43E-02 | 1.45E-03 | 2.26E-01 | 2.28E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.87E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-01 | 5.88E-03 | 1.33E-05 | 2.35E-01 | 2.35E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-03 | 1.51E-03 | 3.66E-05 | 3.31E-03 | 3.34E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 3.65E-02 | 1.53E-03 | 2.10E-01 | 2.11E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 3.18E-02 | 5.72E-03 | 2.23E-01 | 2.29E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.43E-02 | 1.45E-03 | 2.49E-01 | 2.51E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-27**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **2E+00** | 5E-01 | **2E+00** | 5E-01 |
| | **Chromium** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Blue Jay - mid** | **tPCB-med** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Chromium** | 6E-01 | 5E-01 | 6E-01 | 5E-01 |
| | **Lead** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Blue Jay - high** | **tPCB-high** | **2E+01** | **7E+00** | **2E+01** | **7E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Mercury** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Lead** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Vanadium** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Shrew - 1** | **tPCB** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Mercury** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 2E-02 | 8E-03 | 2E-02 | 8E-03 |
| | **Mercury** | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| | **Chromium** | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 2E-03 | 1E-03 | 3E-03 | 2E-03 |
| | **Vanadium** | 2E-03 | 1E-03 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | 9E-02 | 4E-02 | 9E-02 | 4E-02 |
| | **Chromium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Mercury** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Lead** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-28**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **3.75E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.28E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **3.75E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Blue Jay - mid** | **tPCB-med** | **3.75E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.28E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **3.75E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **3.75E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.28E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **3.75E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Shrew - 1** | **tPCB** | **3.75E-01** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.28E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **3.75E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.28E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **3.75E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.28E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **3.75E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.28E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **3.75E-01** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **7.06E-02** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.12E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.28E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-28**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.36E-03 | 1.88E-05 | 4.37E-02 | 4.37E-02 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 5.16E-05 | 9.83E-03 | 9.88E-03 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.20E-01 | 2.16E-03 | 5.58E-01 | 5.60E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.48E-01 | 8.08E-03 | 4.62E-01 | 4.70E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.48E-01 | 2.05E-03 | 4.65E-01 | 4.67E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.36E-03 | 1.88E-05 | 4.37E-02 | 4.37E-02 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 0.00E+00 | 8.03E-03 | 2.04E-05 | 8.00E-01 | 8.00E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 6.34E-04 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 0.00E+00 | 1.51E-03 | 5.59E-05 | 1.03E-01 | 1.03E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 2.40E-01 | 2.34E-03 | 9.77E-01 | 9.79E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 0.00E+00 | 4.88E-01 | 8.75E-03 | 2.45E+00 | 2.46E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 4.88E-01 | 2.22E-03 | 6.65E-01 | 6.67E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 0.00E+00 | 8.03E-03 | 2.04E-05 | 8.00E-01 | 8.00E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 1.28E-02 | 4.23E-05 | 5.09E+00 | 5.09E+00 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 4.13E-03 | 2.04E-01 | 4.22E-01 | 0.00E+00 | 0.00E+00 | 2.41E-03 | 1.16E-04 | 6.34E-01 | 6.34E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 3.82E-01 | 4.86E-03 | 3.42E+00 | 3.43E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 7.78E-01 | 1.82E-02 | 1.38E+01 | 1.38E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 7.78E-01 | 4.62E-03 | 1.86E+00 | 1.86E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 1.28E-02 | 4.23E-05 | 5.09E+00 | 5.09E+00 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.94E-03 | 3.13E-03 | 2.14E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 1.44E-03 | 2.35E-05 | 3.62E+00 | 3.62E+00 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 1.23E-03 | 2.64E-01 | 1.82E-01 | 0.00E+00 | 0.00E+00 | 2.71E-04 | 6.45E-05 | 4.48E-01 | 4.48E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 0.00E+00 | 4.29E-02 | 2.70E-03 | 1.87E+00 | 1.88E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 0.00E+00 | 8.74E-02 | 1.01E-02 | 9.34E+00 | 9.35E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 0.00E+00 | 8.74E-02 | 2.57E-03 | 8.48E-01 | 8.50E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.77E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-04 | 1.03E-05 | 3.88E-03 | 3.89E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.07E-05 | 2.84E-05 | 8.97E-04 | 9.25E-04 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.28E-03 | 1.19E-03 | 3.84E-02 | 3.96E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.68E-03 | 4.44E-03 | 8.19E-03 | 1.26E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.68E-03 | 1.13E-03 | 8.47E-03 | 9.60E-03 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.77E-01 | 9.57E-04 | 1.72E-05 | 3.78E-01 | 3.78E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-03 | 1.80E-04 | 4.73E-05 | 2.96E-03 | 3.01E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 2.86E-02 | 1.98E-03 | 3.07E-01 | 3.09E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 5.82E-02 | 7.40E-03 | 3.74E-01 | 3.81E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 5.82E-02 | 1.88E-03 | 4.29E-01 | 4.31E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.65E-03 | 0.00E+00 | 6.84E-02 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.98E-04 | 1.33E-05 | 2.61E-01 | 2.61E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 8.46E-03 | 0.00E+00 | 0.00E+00 | 1.40E-03 | 7.49E-05 | 3.66E-05 | 1.03E-02 | 1.04E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.19E-02 | 1.53E-03 | 1.97E-01 | 1.99E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 2.42E-02 | 5.72E-03 | 3.59E-01 | 3.65E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 2.42E-02 | 1.45E-03 | 2.26E-01 | 2.28E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.87E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-01 | 3.98E-04 | 1.33E-05 | 2.30E-01 | 2.30E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-03 | 7.49E-05 | 3.66E-05 | 1.87E-03 | 1.91E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 1.19E-02 | 1.53E-03 | 1.85E-01 | 1.87E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 2.42E-02 | 5.72E-03 | 2.15E-01 | 2.21E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.42E-02 | 1.45E-03 | 2.49E-01 | 2.51E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-28**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 9E-02 | 3E-02 | 9E-02 | 3E-02 |
| | **Mercury** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| **Blue Jay - mid** | **tPCB-med** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Chromium** | 4E-01 | 3E-01 | 4E-01 | 3E-01 |
| | **Lead** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | **2E+00** | 9E-01 | **2E+00** | 1E+00 |
| **Blue Jay - high** | **tPCB-high** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Mercury** | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Vanadium** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Shrew - 1** | **tPCB** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Mercury** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | 1E+00 | **2E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 2E-02 | 6E-03 | 2E-02 | 6E-03 |
| | **Mercury** | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 2E-03 | 9E-04 | 3E-03 | 1E-03 |
| | **Vanadium** | 2E-03 | 1E-03 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Mercury** | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-29**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **1.76E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.48E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **1.76E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Blue Jay - mid** | **tPCB-med** | **1.76E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.48E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **1.76E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.76E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.48E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.76E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Shrew - 1** | **tPCB** | **1.76E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.48E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **1.76E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.48E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **1.76E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.48E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **1.76E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.48E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **1.76E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **1.61E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.34E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.48E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.94E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-29**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.45E-02 | 1.88E-05 | 7.08E-02 | 7.09E-02 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.16E-03 | 5.16E-05 | 1.16E-02 | 1.17E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E-01 | 2.16E-03 | 6.02E-01 | 6.04E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.79E-01 | 8.08E-03 | 8.94E-01 | 9.02E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.81E-01 | 2.05E-03 | 3.98E-01 | 4.00E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.45E-02 | 1.88E-05 | 7.08E-02 | 7.09E-02 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 0.00E+00 | 3.77E-02 | 2.04E-05 | 8.30E-01 | 8.30E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 6.34E-04 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 0.00E+00 | 3.45E-03 | 5.59E-05 | 1.05E-01 | 1.05E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 2.87E-01 | 2.34E-03 | 1.02E+00 | 1.03E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 0.00E+00 | 9.59E-01 | 8.75E-03 | 2.92E+00 | 2.93E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 4.15E-01 | 2.22E-03 | 5.92E-01 | 5.94E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 0.00E+00 | 3.77E-02 | 2.04E-05 | 8.30E-01 | 8.30E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 6.01E-02 | 4.23E-05 | 5.14E+00 | 5.14E+00 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 4.13E-03 | 2.04E-01 | 4.22E-01 | 0.00E+00 | 0.00E+00 | 5.49E-03 | 1.16E-04 | 6.37E-01 | 6.37E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 4.57E-01 | 4.86E-03 | 3.50E+00 | 3.50E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 1.53E+00 | 1.82E-02 | 1.45E+01 | 1.45E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 6.62E-01 | 4.62E-03 | 1.74E+00 | 1.75E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 6.01E-02 | 4.23E-05 | 5.14E+00 | 5.14E+00 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.94E-03 | 3.13E-03 | 2.14E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 6.75E-03 | 2.35E-05 | 3.62E+00 | 3.62E+00 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 1.23E-03 | 2.64E-01 | 1.82E-01 | 0.00E+00 | 0.00E+00 | 6.17E-04 | 6.45E-05 | 4.49E-01 | 4.49E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 0.00E+00 | 5.14E-02 | 2.70E-03 | 1.88E+00 | 1.88E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 0.00E+00 | 1.72E-01 | 1.01E-02 | 9.42E+00 | 9.43E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 0.00E+00 | 7.44E-02 | 2.57E-03 | 8.35E-01 | 8.37E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.77E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.16E-04 | 1.03E-05 | 4.28E-03 | 4.29E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.72E-05 | 2.84E-05 | 9.23E-04 | 9.52E-04 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.93E-03 | 1.19E-03 | 3.91E-02 | 4.02E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-02 | 4.44E-03 | 1.46E-02 | 1.91E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.69E-03 | 1.13E-03 | 7.47E-03 | 8.60E-03 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.77E-01 | 4.49E-03 | 1.72E-05 | 3.82E-01 | 3.82E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-03 | 4.11E-04 | 4.73E-05 | 3.19E-03 | 3.24E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 3.42E-02 | 1.98E-03 | 3.12E-01 | 3.14E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 1.14E-01 | 7.40E-03 | 4.30E-01 | 4.37E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 4.95E-02 | 1.88E-03 | 4.21E-01 | 4.22E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.65E-03 | 0.00E+00 | 6.84E-02 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 1.87E-03 | 1.33E-05 | 2.62E-01 | 2.62E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 8.46E-03 | 0.00E+00 | 0.00E+00 | 1.40E-03 | 1.71E-04 | 3.66E-05 | 1.04E-02 | 1.04E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.42E-02 | 1.53E-03 | 1.99E-01 | 2.01E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 4.75E-02 | 5.72E-03 | 3.82E-01 | 3.88E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 2.06E-02 | 1.45E-03 | 2.23E-01 | 2.24E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.87E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-01 | 1.87E-03 | 1.33E-05 | 2.31E-01 | 2.31E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-03 | 1.71E-04 | 3.66E-05 | 1.97E-03 | 2.00E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 1.42E-02 | 1.53E-03 | 1.87E-01 | 1.89E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 4.75E-02 | 5.72E-03 | 2.39E-01 | 2.45E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.06E-02 | 1.45E-03 | 2.46E-01 | 2.47E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-29**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 2E-01 | 5E-02 | 2E-01 | 5E-02 |
| | **Mercury** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 5E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **Mourning Dove - high** | **tPCB-high** | **2E+00** | 5E-01 | **2E+00** | 5E-01 |
| **Blue Jay - mid** | **tPCB-med** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Chromium** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Blue Jay - high** | **tPCB-high** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Mercury** | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Vanadium** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Shrew - 1** | **tPCB** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Mercury** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 2E-02 | 6E-03 | 2E-02 | 6E-03 |
| | **Mercury** | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 3E-03 | 2E-03 | 4E-03 | 2E-03 |
| | **Vanadium** | 2E-03 | 9E-04 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Mercury** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-30**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **5.55E+00** | **9.95E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.61E+01** | **1.72E+02** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **3.44E+01** | **1.60E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **6.50E+00** | **7.80E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.00E+01** | **5.03E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.42E+00** | **2.74E+01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.29E+01** | **1.37E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **5.55E+00** | **9.95E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **5.55E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **8.61E+01** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **3.44E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **6.50E+00** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **3.00E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **1.42E+00** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **2.29E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **5.55E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **5.55E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **8.61E+01** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **3.44E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **6.50E+00** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **3.00E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **1.42E+00** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **2.29E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **5.55E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **8.61E+01** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **3.44E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **6.50E+00** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **3.00E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **1.42E+00** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **2.29E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-30**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Measured Tissue (mg/kg dry weight) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |

**Table E3-30**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 |
| | **Mercury** | 5.58E+00 | 3.21E-01 | 3.77E-02 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 2.00E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 |
| **Hawk - mid** | **tPCB-med** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 |
| | **Mercury** | 5.58E+00 | 3.21E-01 | 3.77E-02 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.10E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 |
| **Hawk - high** | **tPCB-high** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 |
| **Raccoon - 1** | **tPCB** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 |
| | **Mercury** | 5.58E+00 | 3.21E-01 | 3.77E-02 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 |
| **Shrew - 2** | **tPCB** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.70E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 |
| | **Mercury** | 5.58E+00 | 3.21E-01 | 3.77E-02 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.70E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 |

**Table E3-30**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.88E-03 | 0.00E+00 | 0.00E+00 | 2.04E-01 | 0.00E+00 | 4.13E-03 | 0.00E+00 | 4.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 3.03E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 2.58E-04 | 1.21E-01 | 0.00E+00 | 9.04E-03 | 0.00E+00 | 0.00E+00 | 1.33E-02 |
| | **Barium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 |
| | **Chromium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| | **Cobalt** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 |
| | **Lead** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 |
| | **Mercury** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 1.50E-02 | 0.00E+00 | 1.01E-04 | 1.50E-02 | 0.00E+00 | 6.65E-05 | 0.00E+00 | 0.00E+00 | 6.63E-04 |
| | **Vanadium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| **Shrew - 2** | **tPCB** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.58E-03 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 2.15E-03 | 1.01E+00 | 0.00E+00 | 4.06E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 1.30E-03 | 0.00E+00 | 2.93E-01 | 0.00E+00 | 8.43E-04 | 1.25E-01 | 0.00E+00 | 2.99E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-30**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-01 | 0.00E+00 | 4.23E-05 | 1.85E+00 | 3.43E+00 | 5.28E+00 | 5.28E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.94E+00 | 0.00E+00 | 3.27E-02 | 1.23E+01 | 1.88E+01 | 3.11E+01 | 3.11E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.17E+00 | 0.00E+00 | 4.86E-03 | 2.69E+00 | 1.54E+00 | 4.23E+00 | 4.24E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.22E-01 | 0.00E+00 | 3.29E-03 | 2.45E+00 | 1.19E+00 | 3.64E+00 | 3.65E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.82E-02 | 5.28E+00 | 8.90E+00 | 1.42E+01 | 1.42E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.86E-02 | 0.00E+00 | 1.16E-04 | 2.57E-01 | 4.24E-01 | 6.81E-01 | 6.81E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.81E-01 | 0.00E+00 | 4.62E-03 | 1.15E+00 | 7.53E-01 | 1.90E+00 | 1.91E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-01 | 0.00E+00 | 4.23E-05 | 1.85E+00 | 3.43E+00 | 5.28E+00 | 5.28E+00 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E+00 | 0.00E+00 | 2.53E-02 | 4.55E-02 | 8.93E-06 | 4.69E-01 | 1.78E+00 | 2.25E+00 | 2.25E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 3.93E-01 | 7.86E-01 | 6.90E-03 | 3.42E+00 | 8.89E-01 | 4.31E+00 | 4.32E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.57E-01 | 7.31E-02 | 1.03E-03 | 4.84E-01 | 1.67E-01 | 6.51E-01 | 6.52E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00 | 2.97E-02 | 3.56E-02 | 6.95E-04 | 1.12E+00 | 2.70E-01 | 1.39E+00 | 1.39E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.98E-03 | 0.00E+00 | 1.37E-01 | 2.30E-01 | 3.84E-03 | 5.08E-01 | 2.38E-01 | 7.45E-01 | 7.49E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 6.51E-03 | 1.25E-01 | 2.45E-05 | 9.77E-03 | 1.34E-01 | 1.44E-01 | 1.44E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.05E-01 | 6.26E-02 | 9.75E-04 | 5.41E-01 | 1.56E-01 | 6.97E-01 | 6.98E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E+00 | 0.00E+00 | 2.53E-02 | 4.55E-02 | 8.93E-06 | 4.69E-01 | 1.78E+00 | 2.25E+00 | 2.25E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 2.96E-02 | 0.00E+00 | 0.00E+00 | 8.93E-02 | 3.09E-02 | 1.40E-02 | 0.00E+00 | 1.30E-05 | 2.69E-01 | 1.63E-01 | 4.32E-01 | 4.32E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 2.17E-01 | 0.00E+00 | 1.00E-02 | 4.49E+00 | 7.44E-01 | 5.24E+00 | 5.25E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 8.67E-02 | 0.00E+00 | 1.49E-03 | 2.46E-01 | 2.69E-02 | 2.73E-01 | 2.74E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 1.64E-02 | 0.00E+00 | 1.01E-03 | 1.23E-01 | 8.34E-02 | 2.07E-01 | 2.08E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 7.57E-02 | 0.00E+00 | 5.59E-03 | 7.06E-01 | 1.55E-02 | 7.21E-01 | 7.27E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 4.34E-04 | 0.00E+00 | 0.00E+00 | 4.69E-04 | 8.30E-04 | 3.59E-03 | 0.00E+00 | 3.57E-05 | 3.44E-02 | 2.40E-03 | 3.68E-02 | 3.69E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 5.77E-02 | 0.00E+00 | 1.42E-03 | 1.19E-01 | 1.17E-02 | 1.31E-01 | 1.32E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-01 | 4.91E-02 | 2.13E-02 | 3.82E-02 | 2.35E-05 | 3.45E+00 | 3.00E-01 | 3.75E+00 | 3.75E+00 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-02 | 5.62E-02 | 3.30E-01 | 6.60E-01 | 1.82E-02 | 2.34E+01 | 7.28E-01 | 2.41E+01 | 2.41E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.31E-02 | 1.32E-01 | 6.14E-02 | 2.70E-03 | 1.83E+00 | 9.60E-02 | 1.93E+00 | 1.93E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 1.99E-03 | 2.49E-02 | 2.99E-02 | 1.83E-03 | 9.71E-01 | 6.07E-02 | 1.03E+00 | 1.03E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-04 | 5.27E-03 | 1.15E-01 | 1.93E-01 | 1.01E-02 | 8.81E+00 | 1.99E-01 | 9.01E+00 | 9.02E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-03 | 1.32E-03 | 5.46E-03 | 1.05E-01 | 6.45E-05 | 4.25E-01 | 1.08E-01 | 5.33E-01 | 5.33E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.07E-03 | 8.78E-02 | 5.25E-02 | 2.57E-03 | 8.39E-01 | 6.61E-02 | 9.05E-01 | 9.07E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-30**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **4E+00** | **1E+00** | **7E+00** | **2E+00** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 6E-01 | 3E-01 | 9E-01 | 5E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 1E+00 | 1E+00 | 6E-01 | 5E-01 | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **3E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Mercury** | **1E+01** | **4E+00** | **2E+01** | **6E+00** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Vanadium** | **3E+00** | **2E+00** | **2E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **4E+01** | **1E+01** | **8E+01** | **3E+01** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Hawk - mid** | **tPCB-med** | 1E+00 | 3E-01 | **4E+00** | **1E+00** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 2E-01 | 8E-02 | 4E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 2E-01 | 2E-01 | 6E-02 | 6E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 4E-02 | 3E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 2E-01 | 1E-01 | 7E-02 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 4E-01 | 1E-01 | **6E+00** | **2E+00** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | **2E+00** | 8E-01 | 5E-01 | 2E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **1E+01** | **4E+00** | **4E+01** | **1E+01** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | **1E+00** | 4E-01 | 7E-01 | 2E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 1E-01 | 9E-02 | 1E-02 | 1E-02 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 2E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 5E-01 | 2E-01 | 3E-02 | 2E-02 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **1E+01** | **5E+00** | **1E+00** | 4E-01 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 5E-01 | 2E-01 | 1E-02 | 6E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 8E-01 | 6E-01 | 4E-02 | 3E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 8E-03 | 6E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 4E-02 | 2E-02 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **6E+00** | **3E+00** | **1E+00** | 7E-01 | **7E+00** | **4E+00** | **7E+00** | **4E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-02 | 8E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-31**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **3.75E-01** | **9.95E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.36E+02** | **1.72E+02** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.12E+01** | **1.60E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.00E+01** | **7.80E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.28E+01** | **5.03E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **7.06E-02** | **2.74E+01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **1.37E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **3.75E-01** | **9.95E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **3.75E-01** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.36E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.12E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.00E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.28E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **7.06E-02** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **3.75E-01** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **3.75E-01** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **1.36E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **1.12E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **1.00E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **2.28E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **7.06E-02** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **2.28E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Shrew - 2** | **tPCB** | **3.75E-01** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.36E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.12E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.00E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.28E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **7.06E-02** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-31**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |

**Table E3-31**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-31**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.88E-03 | 0.00E+00 | 0.00E+00 | 2.04E-01 | 0.00E+00 | 4.13E-03 | 0.00E+00 | 4.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 3.03E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 2.58E-04 | 1.21E-01 | 0.00E+00 | 9.04E-03 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 2.96E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 7.06E-04 | 0.00E+00 | 1.50E-02 | 0.00E+00 | 1.01E-04 | 1.50E-02 | 0.00E+00 | 6.65E-05 | 0.00E+00 | 0.00E+00 | 6.63E-04 | 4.34E-04 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 5.58E-03 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 2.15E-03 | 1.01E+00 | 0.00E+00 | 4.06E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-03 | 0.00E+00 | 2.93E-01 | 0.00E+00 | 8.43E-04 | 1.25E-01 | 0.00E+00 | 2.99E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-31**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.28E-02 | 0.00E+00 | 4.23E-05 | 1.67E+00 | 3.43E+00 | 5.11E+00 | 5.11E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 4.64E+00 | 0.00E+00 | 3.27E-02 | 1.40E+01 | 1.88E+01 | 3.28E+01 | 3.28E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 3.82E-01 | 0.00E+00 | 4.86E-03 | 1.90E+00 | 1.54E+00 | 3.44E+00 | 3.44E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 3.41E-01 | 0.00E+00 | 3.29E-03 | 2.57E+00 | 1.19E+00 | 3.76E+00 | 3.77E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 7.78E-01 | 0.00E+00 | 1.82E-02 | 5.03E+00 | 8.90E+00 | 1.39E+01 | 1.39E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.41E-03 | 0.00E+00 | 1.16E-04 | 2.11E-01 | 4.24E-01 | 6.34E-01 | 6.34E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 7.78E-01 | 0.00E+00 | 4.62E-03 | 1.15E+00 | 7.53E-01 | 1.90E+00 | 1.90E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.28E-02 | 0.00E+00 | 4.23E-05 | 1.67E+00 | 3.43E+00 | 5.11E+00 | 5.11E+00 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 1.74E+00 | 0.00E+00 | 1.71E-03 | 4.55E-02 | 8.93E-06 | 4.45E-01 | 1.78E+00 | 2.23E+00 | 2.23E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 1.03E-01 | 0.00E+00 | 6.21E-01 | 7.86E-01 | 6.90E-03 | 3.65E+00 | 8.89E-01 | 4.54E+00 | 4.55E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 9.39E-02 | 0.00E+00 | 5.12E-02 | 7.31E-02 | 1.03E-03 | 3.78E-01 | 1.67E-01 | 5.45E-01 | 5.46E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 2.35E-01 | 0.00E+00 | 4.57E-02 | 3.56E-02 | 6.95E-04 | 1.14E+00 | 2.70E-01 | 1.41E+00 | 1.41E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 7.98E-03 | 0.00E+00 | 1.04E-01 | 2.30E-01 | 3.84E-03 | 4.75E-01 | 2.38E-01 | 7.13E-01 | 7.16E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 9.12E-03 | 0.00E+00 | 3.23E-04 | 1.25E-01 | 2.45E-05 | 3.59E-03 | 1.34E-01 | 1.38E-01 | 1.38E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 9.39E-02 | 0.00E+00 | 1.04E-01 | 6.26E-02 | 9.75E-04 | 5.40E-01 | 1.56E-01 | 6.97E-01 | 6.98E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 1.74E+00 | 0.00E+00 | 1.71E-03 | 4.55E-02 | 8.93E-06 | 4.45E-01 | 1.78E+00 | 2.23E+00 | 2.23E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 8.93E-02 | 3.09E-02 | 9.46E-04 | 0.00E+00 | 1.30E-05 | 2.56E-01 | 1.63E-01 | 4.19E-01 | 4.19E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 5.32E-03 | 3.54E-02 | 3.43E-01 | 0.00E+00 | 1.00E-02 | 4.62E+00 | 7.44E-01 | 5.36E+00 | 5.37E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 4.83E-03 | 1.45E-02 | 2.82E-02 | 0.00E+00 | 1.49E-03 | 1.87E-01 | 2.69E-02 | 2.14E-01 | 2.16E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 1.21E-02 | 1.25E-03 | 2.52E-02 | 0.00E+00 | 1.01E-03 | 1.32E-01 | 8.34E-02 | 2.15E-01 | 2.16E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 4.11E-04 | 3.32E-03 | 5.75E-02 | 0.00E+00 | 5.59E-03 | 6.88E-01 | 1.55E-02 | 7.03E-01 | 7.09E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 4.69E-04 | 8.30E-04 | 1.78E-04 | 0.00E+00 | 3.57E-05 | 3.10E-02 | 2.40E-03 | 3.34E-02 | 3.34E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 4.83E-03 | 1.30E-03 | 5.75E-02 | 0.00E+00 | 1.42E-03 | 1.19E-01 | 1.17E-02 | 1.31E-01 | 1.32E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 2.13E-01 | 4.91E-02 | 1.44E-03 | 3.82E-02 | 2.35E-05 | 3.43E+00 | 3.00E-01 | 3.73E+00 | 3.73E+00 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 1.27E-02 | 5.62E-02 | 5.22E-01 | 6.60E-01 | 1.82E-02 | 2.36E+01 | 7.28E-01 | 2.43E+01 | 2.43E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 1.15E-02 | 2.31E-02 | 4.29E-02 | 6.14E-02 | 2.70E-03 | 1.74E+00 | 9.60E-02 | 1.84E+00 | 1.84E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.88E-02 | 1.99E-03 | 3.83E-02 | 2.99E-02 | 1.83E-03 | 9.84E-01 | 6.07E-02 | 1.05E+00 | 1.05E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 9.79E-04 | 5.27E-03 | 8.74E-02 | 1.93E-01 | 1.01E-02 | 8.78E+00 | 1.99E-01 | 8.98E+00 | 8.99E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 1.12E-03 | 1.32E-03 | 2.71E-04 | 1.05E-01 | 6.45E-05 | 4.20E-01 | 1.08E-01 | 5.28E-01 | 5.28E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 1.15E-02 | 2.07E-03 | 8.74E-02 | 5.25E-02 | 2.57E-03 | 8.38E-01 | 6.61E-02 | 9.04E-01 | 9.07E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-31**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **4E+00** | **1E+00** | **7E+00** | **2E+00** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 7E-01 | 3E-01 | 9E-01 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 7E-01 | 7E-01 | 6E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **3E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Mercury** | **9E+00** | **3E+00** | **2E+01** | **6E+00** | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| | **Vanadium** | **3E+00** | **2E+00** | **2E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **4E+01** | **1E+01** | **8E+01** | **3E+01** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Hawk - mid** | **tPCB-med** | 1E+00 | 3E-01 | **4E+00** | **1E+00** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 2E-01 | 9E-02 | 4E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 1E-01 | 1E-01 | 6E-02 | 6E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 4E-02 | 3E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 1E-01 | 1E-01 | 7E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | 2E-01 | 5E-02 | **6E+00** | **2E+00** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | **2E+00** | 8E-01 | 5E-01 | 2E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **1E+01** | **3E+00** | **4E+01** | **1E+01** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | **1E+00** | 4E-01 | 7E-01 | 2E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 1E-02 | 1E-02 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 1E-01 | 8E-02 | 3E-03 | 2E-03 | 1E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 4E-01 | 2E-01 | 3E-02 | 2E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **1E+01** | **5E+00** | **1E+00** | 4E-01 | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Barium** | 5E-01 | 2E-01 | 1E-02 | 6E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 4E-02 | 3E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 8E-03 | 6E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 4E-02 | 2E-02 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **6E+00** | **3E+00** | **1E+00** | 7E-01 | **7E+00** | **4E+00** | **7E+00** | **4E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-02 | 8E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-32**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.76E+00** | **9.95E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.38E+02** | **1.72E+02** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.34E+01** | **1.60E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.14E+01** | **7.80E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **4.48E+01** | **5.03E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.61E-01** | **2.74E+01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.94E+01** | **1.37E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.76E+00** | **9.95E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.76E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.38E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.34E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.14E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **4.48E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.61E-01** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.94E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.76E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.76E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **1.38E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **1.34E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **1.14E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **4.48E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **1.61E-01** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **1.94E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Shrew - 2** | **tPCB** | **1.76E+00** | **9.95E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.38E+02** | **1.72E+02** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.34E+01** | **1.60E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.14E+01** | **7.80E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **4.48E+01** | **5.03E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.61E-01** | **2.74E+01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.94E+01** | **1.37E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-32**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 |

**Table E3-32**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-32**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.88E-03 | 0.00E+00 | 0.00E+00 | 2.04E-01 | 0.00E+00 | 4.13E-03 | 0.00E+00 | 4.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 3.03E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 2.58E-04 | 1.21E-01 | 0.00E+00 | 9.04E-03 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 2.96E-02 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 7.06E-04 | 0.00E+00 | 1.50E-02 | 0.00E+00 | 1.01E-04 | 1.50E-02 | 0.00E+00 | 6.65E-05 | 0.00E+00 | 0.00E+00 | 6.63E-04 | 4.34E-04 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 5.58E-03 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 2.15E-03 | 1.01E+00 | 0.00E+00 | 4.06E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-03 | 0.00E+00 | 2.93E-01 | 0.00E+00 | 8.43E-04 | 1.25E-01 | 0.00E+00 | 2.99E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-32**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.01E-02 | 0.00E+00 | 4.23E-05 | 1.72E+00 | 3.43E+00 | 5.15E+00 | 5.15E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.71E+00 | 0.00E+00 | 3.27E-02 | 1.40E+01 | 1.88E+01 | 3.29E+01 | 3.29E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.57E-01 | 0.00E+00 | 4.86E-03 | 1.98E+00 | 1.54E+00 | 3.51E+00 | 3.52E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.89E-01 | 0.00E+00 | 3.29E-03 | 2.62E+00 | 1.19E+00 | 3.81E+00 | 3.81E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.53E+00 | 0.00E+00 | 1.82E-02 | 5.79E+00 | 8.90E+00 | 1.47E+01 | 1.47E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.49E-03 | 0.00E+00 | 1.16E-04 | 2.14E-01 | 4.24E-01 | 6.37E-01 | 6.38E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.62E-01 | 0.00E+00 | 4.62E-03 | 1.03E+00 | 7.53E-01 | 1.78E+00 | 1.79E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.01E-02 | 0.00E+00 | 4.23E-05 | 1.72E+00 | 3.43E+00 | 5.15E+00 | 5.15E+00 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 1.74E+00 | 0.00E+00 | 8.04E-03 | 4.55E-02 | 8.93E-06 | 4.51E-01 | 1.78E+00 | 2.23E+00 | 2.23E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 1.03E-01 | 0.00E+00 | 6.31E-01 | 7.86E-01 | 6.90E-03 | 3.66E+00 | 8.89E-01 | 4.55E+00 | 4.56E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 6.12E-02 | 7.31E-02 | 1.03E-03 | 3.88E-01 | 1.67E-01 | 5.55E-01 | 5.56E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 5.21E-02 | 3.56E-02 | 6.95E-04 | 1.14E+00 | 2.70E-01 | 1.41E+00 | 1.41E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 7.98E-03 | 0.00E+00 | 2.05E-01 | 2.30E-01 | 3.84E-03 | 5.75E-01 | 2.38E-01 | 8.13E-01 | 8.17E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 9.12E-03 | 0.00E+00 | 7.36E-04 | 1.25E-01 | 2.45E-05 | 4.00E-03 | 1.34E-01 | 1.38E-01 | 1.38E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 8.86E-02 | 6.26E-02 | 9.75E-04 | 5.25E-01 | 1.56E-01 | 6.81E-01 | 6.82E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 1.74E+00 | 0.00E+00 | 8.04E-03 | 4.55E-02 | 8.93E-06 | 4.51E-01 | 1.78E+00 | 2.23E+00 | 2.23E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 8.93E-02 | 3.09E-02 | 4.44E-03 | 0.00E+00 | 1.30E-05 | 2.59E-01 | 1.63E-01 | 4.22E-01 | 4.22E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 5.32E-03 | 3.54E-02 | 3.48E-01 | 0.00E+00 | 1.00E-02 | 4.62E+00 | 7.44E-01 | 5.37E+00 | 5.38E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 1.45E-02 | 3.38E-02 | 0.00E+00 | 1.49E-03 | 1.93E-01 | 2.69E-02 | 2.20E-01 | 2.21E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.87E-02 | 0.00E+00 | 1.01E-03 | 1.36E-01 | 8.34E-02 | 2.19E-01 | 2.20E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 4.11E-04 | 3.32E-03 | 1.13E-01 | 0.00E+00 | 5.59E-03 | 7.43E-01 | 1.55E-02 | 7.59E-01 | 7.64E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 4.69E-04 | 8.30E-04 | 4.06E-04 | 0.00E+00 | 3.57E-05 | 3.12E-02 | 2.40E-03 | 3.36E-02 | 3.37E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 1.30E-03 | 4.89E-02 | 0.00E+00 | 1.42E-03 | 1.10E-01 | 1.17E-02 | 1.22E-01 | 1.23E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 2.13E-01 | 4.91E-02 | 6.75E-03 | 3.82E-02 | 2.35E-05 | 3.43E+00 | 3.00E-01 | 3.73E+00 | 3.73E+00 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 1.27E-02 | 5.62E-02 | 5.29E-01 | 6.60E-01 | 1.82E-02 | 2.36E+01 | 7.28E-01 | 2.43E+01 | 2.43E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 2.31E-02 | 5.14E-02 | 6.14E-02 | 2.70E-03 | 1.75E+00 | 9.60E-02 | 1.85E+00 | 1.85E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 1.99E-03 | 4.37E-02 | 2.99E-02 | 1.83E-03 | 9.90E-01 | 6.07E-02 | 1.05E+00 | 1.05E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 9.79E-04 | 5.27E-03 | 1.72E-01 | 1.93E-01 | 1.01E-02 | 8.86E+00 | 1.99E-01 | 9.06E+00 | 9.07E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 1.12E-03 | 1.32E-03 | 6.17E-04 | 1.05E-01 | 6.45E-05 | 4.21E-01 | 1.08E-01 | 5.28E-01 | 5.28E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 2.07E-03 | 7.44E-02 | 5.25E-02 | 2.57E-03 | 8.25E-01 | 6.61E-02 | 8.91E-01 | 8.94E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-32**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **4E+00** | **1E+00** | **7E+00** | **2E+00** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 7E-01 | 3E-01 | 9E-01 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 7E-01 | 7E-01 | 6E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **4E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **5E+00** | **9E+00** | **5E+00** |
| | **Mercury** | **9E+00** | **3E+00** | **2E+01** | **6E+00** | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| | **Vanadium** | **3E+00** | **1E+00** | **2E+00** | **1E+00** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **4E+01** | **1E+01** | **8E+01** | **3E+01** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Hawk - mid** | **tPCB-med** | 1E+00 | 3E-01 | **4E+00** | **1E+00** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 2E-01 | 9E-02 | 4E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 1E-01 | 1E-01 | 6E-02 | 6E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 4E-02 | 3E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 4E-01 | 2E-01 | 1E-01 | 7E-02 | 5E-01 | 2E-01 | 5E-01 | 3E-01 |
| | **Mercury** | 2E-01 | 6E-02 | **6E+00** | **2E+00** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | **2E+00** | 7E-01 | 5E-01 | 2E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **1E+01** | **3E+00** | **4E+01** | **1E+01** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | **1E+00** | 4E-01 | 7E-01 | 2E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 1E-02 | 1E-02 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 2E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Mercury** | 4E-01 | 2E-01 | 3E-02 | 2E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Shrew - 2** | **tPCB** | **1E+01** | **5E+00** | **1E+00** | 4E-01 | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Barium** | 5E-01 | 2E-01 | 1E-02 | 6E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 4E-02 | 3E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 8E-03 | 6E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 4E-02 | 2E-02 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **6E+00** | **3E+00** | **1E+00** | 7E-01 | **7E+00** | **4E+00** | **7E+00** | **4E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-02 | 8E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-33**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C2, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| Spotted Sandpiper - 1 - mid | tPCB-med | 3.20E+01 | 9.95E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 1.38E+02 | 1.72E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 1.34E+01 | 1.60E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 1.14E+01 | 7.80E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 4.48E+01 | 5.03E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 4.89E-01 | 2.74E+01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 2.28E+01 | 1.37E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Spotted Sandpiper - 1 - high | tPCB-high | 3.20E+01 | 9.95E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| GBH - mid | tPCB-med | 3.20E+01 | 9.95E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | Barium | 1.38E+02 | 1.72E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | Chromium | 1.34E+01 | 1.60E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | Cobalt | 1.14E+01 | 7.80E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | Lead | 4.48E+01 | 5.03E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | Mercury | 4.89E-01 | 2.74E+01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | Vanadium | 2.28E+01 | 1.37E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| GBH - high | tPCB-high | 3.20E+01 | 9.95E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| Mink - 1 | tPCB-mink | 3.20E+01 | 9.95E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 3.20E+01 | 9.95E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | Barium | 1.38E+02 | 1.72E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | Chromium | 1.34E+01 | 1.60E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | Cobalt | 1.14E+01 | 7.80E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | Lead | 4.48E+01 | 5.03E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | Mercury | 4.89E-01 | 2.74E+01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | Vanadium | 2.28E+01 | 1.37E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| Mink - 2 | tPCB-mink | 3.20E+01 | 9.95E+00 | 1.57E-04 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 3.20E+01 | 9.95E+00 | 1.57E-04 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | Barium | 1.38E+02 | 1.72E+02 | 1.21E-01 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | Chromium | 1.34E+01 | 1.60E+01 | 1.80E-02 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | Cobalt | 1.14E+01 | 7.80E+00 | 1.22E-02 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | Lead | 4.48E+01 | 5.03E+01 | 6.73E-02 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | Mercury | 4.89E-01 | 2.74E+01 | 4.30E-04 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | Vanadium | 2.28E+01 | 1.37E+01 | 1.71E-02 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| Raccoon - 1 | tPCB | 3.20E+01 | 9.95E+00 | 1.57E-04 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | Barium | 1.38E+02 | 1.72E+02 | 1.21E-01 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | Chromium | 1.34E+01 | 1.60E+01 | 1.80E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | Cobalt | 1.14E+01 | 7.80E+00 | 1.22E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | Lead | 4.48E+01 | 5.03E+01 | 6.73E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | Mercury | 4.89E-01 | 2.74E+01 | 4.30E-04 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | Vanadium | 2.28E+01 | 1.37E+01 | 1.71E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| Raccoon - 2 | tPCB | 3.20E+01 | 9.95E+00 | 1.57E-04 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | Barium | 1.38E+02 | 1.72E+02 | 1.21E-01 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | Chromium | 1.34E+01 | 1.60E+01 | 1.80E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | Cobalt | 1.14E+01 | 7.80E+00 | 1.22E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | Lead | 4.48E+01 | 5.03E+01 | 6.73E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | Mercury | 4.89E-01 | 2.74E+01 | 4.30E-04 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | Vanadium | 2.28E+01 | 1.37E+01 | 1.71E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |

**Table E3-33**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C2, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| **GBH - mid** | **tPCB-med** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **GBH - high** | **tPCB-high** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |

**Table E3-33**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C2, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.36E-01 | 4.02E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E+00 | 2.04E+01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 1.73E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.96E-01 | 5.06E-01 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 1.03E+01 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.07E-02 | 4.97E-01 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.28E-01 | 8.38E-01 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.36E-01 | 4.02E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.25E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 9.62E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 3.03E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 1.50E-02 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 4.46E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.92E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 8.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-33**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C2, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.13E-01 | 1.59E-01 | 2.66E-05 | 4.53E+00 | 3.96E-01 | 4.93E+00 | 4.93E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E+00 | 2.76E+00 | 2.06E-02 | 2.26E+01 | 8.10E+00 | 3.07E+01 | 3.07E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.15E-01 | 2.56E-01 | 3.06E-03 | 1.94E+00 | 6.01E-01 | 2.55E+00 | 2.55E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-01 | 1.25E-01 | 2.07E-03 | 6.88E-01 | 5.21E-01 | 1.21E+00 | 1.21E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.18E-01 | 8.06E-01 | 1.14E-02 | 1.10E+01 | 1.34E+00 | 1.24E+01 | 1.24E+01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.84E-03 | 4.39E-01 | 7.31E-05 | 5.05E-01 | 4.60E-01 | 9.65E-01 | 9.65E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.65E-01 | 2.20E-01 | 2.91E-03 | 1.20E+00 | 4.47E-01 | 1.65E+00 | 1.65E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.13E-01 | 1.59E-01 | 2.66E-05 | 4.53E+00 | 3.96E-01 | 4.93E+00 | 4.93E+00 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 0.00E+00 | 0.00E+00 | 6.69E-03 | 8.29E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-01 | 0.00E+00 | 3.50E-02 | 7.05E-06 | 1.12E-02 | 8.61E+00 | 8.62E+00 | 8.62E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 | 0.00E+00 | 0.00E+00 | 3.51E-01 | 2.45E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.06E-01 | 5.45E-03 | 7.65E-02 | 3.71E+00 | 3.79E+00 | 3.79E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-03 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 7.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 5.63E-02 | 8.10E-04 | 8.25E-03 | 9.40E-01 | 9.48E-01 | 9.49E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 7.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 2.75E-02 | 5.49E-04 | 2.75E-02 | 1.49E-01 | 1.76E-01 | 1.77E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.35E-03 | 0.00E+00 | 0.00E+00 | 5.78E-03 | 9.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 0.00E+00 | 1.77E-01 | 3.03E-03 | 9.35E-03 | 3.02E-01 | 3.12E-01 | 3.15E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.24E-05 | 0.00E+00 | 0.00E+00 | 3.35E-04 | 1.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.26E-03 | 0.00E+00 | 9.65E-02 | 1.94E-05 | 8.24E-05 | 2.26E-01 | 2.26E-01 | 2.26E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 1.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 4.82E-02 | 7.70E-04 | 1.10E-02 | 2.59E-01 | 2.70E-01 | 2.70E-01 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 0.00E+00 | 0.00E+00 | 6.69E-03 | 8.29E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-01 | 0.00E+00 | 3.50E-02 | 7.05E-06 | 1.12E-02 | 8.61E+00 | 8.62E+00 | 8.62E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 0.00E+00 | 0.00E+00 | 1.69E-02 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 0.00E+00 | 4.94E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.38E-01 | 7.58E-01 | 8.96E-01 | 8.96E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 0.00E+00 | 0.00E+00 | 1.69E-02 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 0.00E+00 | 4.94E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.38E-01 | 7.58E-01 | 8.96E-01 | 8.96E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.45E-01 | 0.00E+00 | 0.00E+00 | 8.87E-01 | 0.00E+00 | 0.00E+00 | 3.42E-01 | 0.00E+00 | 5.66E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 9.45E-01 | 1.80E+00 | 2.74E+00 | 2.75E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 2.32E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.02E-01 | 3.54E-01 | 4.56E-01 | 4.58E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 2.00E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 3.10E-01 | 6.50E-01 | 6.51E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 0.00E+00 | 0.00E+00 | 2.15E-02 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.16E-01 | 8.91E-02 | 2.05E-01 | 2.11E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-03 | 0.00E+00 | 0.00E+00 | 8.46E-04 | 0.00E+00 | 0.00E+00 | 1.89E-03 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 1.02E-03 | 1.60E-02 | 1.70E-02 | 1.71E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 0.00E+00 | 2.08E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 3.93E-02 | 1.75E-01 | 1.77E-01 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-02 | 0.00E+00 | 0.00E+00 | 7.52E-03 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 5.71E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.89E-02 | 1.08E+00 | 1.09E+00 | 1.09E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-02 | 0.00E+00 | 0.00E+00 | 7.52E-03 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 5.71E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.89E-02 | 1.08E+00 | 1.09E+00 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 3.94E-01 | 0.00E+00 | 0.00E+00 | 1.40E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.29E-01 | 1.90E+00 | 2.02E+00 | 2.04E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 4.73E-01 | 0.00E+00 | 2.68E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.39E-02 | 5.04E-01 | 5.18E-01 | 5.19E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.80E-01 | 9.27E-01 | 9.28E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 6.50E-03 | 0.00E+00 | 0.00E+00 | 8.80E-02 | 0.00E+00 | 6.11E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.58E-02 | 1.04E-01 | 1.20E-01 | 1.27E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-04 | 0.00E+00 | 0.00E+00 | 3.76E-04 | 0.00E+00 | 0.00E+00 | 7.74E-03 | 0.00E+00 | 1.53E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 1.39E-04 | 9.69E-03 | 9.83E-03 | 9.87E-03 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 5.05E-02 | 0.00E+00 | 2.40E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 5.66E-02 | 7.52E-02 | 7.69E-02 |
| **Raccoon - 1** | **tPCB** | 2.58E-04 | 1.21E-01 | 0.00E+00 | 9.04E-03 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 2.96E-02 | 0.00E+00 | 0.00E+00 | 8.93E-02 | 3.09E-02 | 8.07E-02 | 0.00E+00 | 1.30E-05 | 3.35E-01 | 1.63E-01 | 4.98E-01 | 4.98E-01 |
| | **Barium** | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 3.48E-01 | 0.00E+00 | 1.00E-02 | 4.62E+00 | 7.44E-01 | 5.37E+00 | 5.38E+00 |
| | **Chromium** | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 3.38E-02 | 0.00E+00 | 1.49E-03 | 1.93E-01 | 2.69E-02 | 2.20E-01 | 2.21E-01 |
| | **Cobalt** | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.87E-02 | 0.00E+00 | 1.01E-03 | 1.36E-01 | 8.34E-02 | 2.19E-01 | 2.20E-01 |
| | **Lead** | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 1.13E-01 | 0.00E+00 | 5.59E-03 | 7.43E-01 | 1.55E-02 | 7.59E-01 | 7.64E-01 |
| | **Mercury** | 1.01E-04 | 1.50E-02 | 0.00E+00 | 6.65E-05 | 0.00E+00 | 0.00E+00 | 6.63E-04 | 4.34E-04 | 0.00E+00 | 0.00E+00 | 4.69E-04 | 8.30E-04 | 1.23E-03 | 0.00E+00 | 3.57E-05 | 3.21E-02 | 2.40E-03 | 3.45E-02 | 3.45E-02 |
| | **Vanadium** | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 5.75E-02 | 0.00E+00 | 1.42E-03 | 1.19E-01 | 1.17E-02 | 1.31E-01 | 1.32E-01 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-02 | 2.14E-03 | 4.99E-02 | 1.33E-02 | 3.09E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-01 | 0.00E+00 | 2.51E-02 | 1.30E-05 | 3.24E-02 | 5.28E-01 | 5.60E-01 | 5.60E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-01 | 4.83E-02 | 1.19E-01 | 6.95E-01 | 9.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 4.34E-01 | 1.00E-02 | 2.21E-01 | 1.85E+00 | 2.07E+00 | 2.08E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-02 | 3.11E-03 | 4.68E-02 | 4.84E-03 | 2.81E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-02 | 0.00E+00 | 4.03E-02 | 1.49E-03 | 2.39E-02 | 1.96E-01 | 2.19E-01 | 2.21E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-02 | 3.58E-03 | 1.35E-02 | 6.97E-02 | 2.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-03 | 0.00E+00 | 1.97E-02 | 1.01E-03 | 7.96E-02 | 2.73E-01 | 3.52E-01 | 3.53E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-02 | 4.83E-03 | 1.56E-02 | 1.15E-02 | 3.38E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 1.27E-01 | 5.59E-03 | 2.71E-02 | 2.08E-01 | 2.35E-01 | 2.40E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-04 | 1.87E-04 | 1.02E-03 | 6.63E-04 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.32E-03 | 0.00E+00 | 6.91E-02 | 3.57E-05 | 2.39E-04 | 7.92E-02 | 7.95E-02 | 7.95E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 | 2.06E-03 | 6.56E-03 | 4.84E-03 | 7.33E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-03 | 0.00E+00 | 3.45E-02 | 1.42E-03 | 3.19E-02 | 6.94E-02 | 1.01E-01 | 1.03E-01 |

**Table E3-33**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C2, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **1E+01** | **3E+00** | 8E-01 | 3E-01 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | **1E+00** | 5E-01 | 4E-01 | 2E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 7E-01 | 7E-01 | 2E-01 | 2E-01 | 1E+00 | 9E-01 | 1E+00 | 9E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 9E-02 | 9E-02 | 7E-02 | 7E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **7E+00** | **3E+00** | 8E-01 | 4E-01 | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **2E+01** | **7E+00** | **2E+01** | **7E+00** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **1E+00** | 6E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+02** | **3E+01** | **9E+00** | **3E+00** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **GBH - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 2E-02 | 8E-03 | **2E+01** | **6E+00** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 4E-03 | 2E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 4E-01 | 3E-01 | 4E-01 | 3E-01 | 4E-01 | 3E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 2E-01 | 9E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 4E-03 | 1E-03 | **1E+01** | **3E+00** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 8E-01 | 4E-01 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| **GBH - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | 3E-01 | 9E-02 | **2E+02** | **7E+01** | **2E+02** | **7E+01** | **2E+02** | **7E+01** |
| **Mink - 1** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | **3E+00** | **1E+00** | **2E+01** | **8E+00** | **2E+01** | **9E+00** | **2E+01** | **9E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | -- | **3E+00** | -- | **2E+01** | -- | **2E+01** | -- | **2E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-02 | 8E-03 | 3E-02 | 1E-02 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 4E-02 | 4E-02 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 | 6E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 1E-02 | 7E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 5E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Mink - 2** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | 4E-01 | 2E-01 | **2E+01** | **1E+01** | **2E+01** | **1E+01** | **2E+01** | **1E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | -- | 4E-01 | -- | **2E+01** | -- | **2E+01** | -- | **2E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 6E-03 | 5E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 2E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 2E-03 | 9E-04 | 1E-01 | 6E-02 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **1E+00** | 5E-01 | 7E-01 | 2E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 8E-02 | 7E-02 | 1E-02 | 1E-02 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 4E-01 | 2E-01 | 3E-02 | 2E-02 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | 1E-01 | 5E-02 | **2E+00** | 8E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 4E-03 | 2E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-02 | 8E-03 | 8E-02 | 7E-02 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 5E-02 | 4E-02 | 5E-02 | 4E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 4E-02 | 2E-02 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 3E-03 | 2E-03 | **1E+00** | 5E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 2E-02 | 8E-03 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-34**

**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**

**Reach C2, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **5.55E+00** | **9.95E+00** | 1.00E+01 | 6.15E-02 | NA | 6.15E-02 | 2.46E+00 | -- | 2.46E+00 | 2.80E+01 | 6.60E+01 | 9E-02 | 4E-02 | -- | -- | 9E-02 | 4E-02 |
| | **Mercury** | **1.42E+00** | **2.74E+01** | 8.00E-01 | 4.56E-03 | NA | 4.57E-03 | 1.46E-02 | -- | 1.46E-02 | 4.40E-01 | 8.00E-01 | 3E-02 | 2E-02 | -- | -- | 3E-02 | 2E-02 |
| **Mourning Dove - high** | **tPCB-high** | **5.55E+00** | **9.95E+00** | 1.00E+01 | 6.15E-02 | NA | 6.15E-02 | 2.46E+00 | -- | 2.46E+00 | 2.10E+00 | 4.50E+00 | **1E+00** | 5E-01 | -- | -- | **1E+00** | 5E-01 |
| **Blue Jay - mid** | **tPCB-med** | **5.55E+00** | **9.95E+00** | 1.00E+01 | 7.88E-02 | NA | 7.88E-02 | 3.15E+00 | -- | 3.15E+00 | 2.80E+01 | 6.60E+01 | 1E-01 | 5E-02 | -- | -- | 1E-01 | 5E-02 |
| | **Mercury** | **1.42E+00** | **2.74E+01** | 8.00E-01 | 7.15E-03 | NA | 7.16E-03 | 2.29E-02 | -- | 2.29E-02 | 4.40E-01 | 8.00E-01 | 5E-02 | 3E-02 | -- | -- | 5E-02 | 3E-02 |
| **Blue Jay - high** | **tPCB-high** | **5.55E+00** | **9.95E+00** | 1.00E+01 | 7.88E-02 | NA | 7.88E-02 | 3.15E+00 | -- | 3.15E+00 | 2.10E+00 | 4.50E+00 | **2E+00** | 7E-01 | -- | -- | **2E+00** | 7E-01 |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **5.55E+00** | **9.95E+00** | 1.00E+01 | 6.44E-02 | NA | 6.44E-02 | 2.57E+00 | -- | 2.57E+00 | 2.80E+01 | 6.60E+01 | 9E-02 | 4E-02 | -- | -- | 9E-02 | 4E-02 |
| | **Mercury** | **1.42E+00** | **2.74E+01** | 8.00E-01 | 6.77E-03 | NA | 6.77E-03 | 2.17E-02 | -- | 2.17E-02 | 4.40E-01 | 8.00E-01 | 5E-02 | 3E-02 | -- | -- | 5E-02 | 3E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **5.55E+00** | **9.95E+00** | 1.00E+01 | 6.44E-02 | NA | 6.44E-02 | 2.57E+00 | -- | 2.57E+00 | 2.10E+00 | 4.50E+00 | **1E+00** | 6E-01 | -- | -- | **1E+00** | 6E-01 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **5.55E+00** | **9.95E+00** | 1.00E+01 | 2.45E-02 | 7.25E-02 | 9.70E-02 | 9.81E-01 | 2.90E+00 | 3.88E+00 | 2.80E+01 | 6.60E+01 | 4E-02 | 1E-02 | 1E-01 | 4E-02 | 1E-01 | 6E-02 |
| | **Mercury** | **1.42E+00** | **2.74E+01** | 8.00E-01 | 2.89E-03 | 5.61E-02 | 5.90E-02 | 9.24E-03 | 1.79E-01 | 1.89E-01 | 4.40E-01 | 8.00E-01 | 2E-02 | 1E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **5.55E+00** | **9.95E+00** | 1.00E+01 | 2.45E-02 | 7.25E-02 | 9.70E-02 | 9.81E-01 | 2.90E+00 | 3.88E+00 | 2.10E+00 | 4.50E+00 | 5E-01 | 2E-01 | **1E+00** | 6E-01 | **2E+00** | 9E-01 |
| **Hawk - mid** | **tPCB-med** | **5.55E+00** | **9.95E+00** | 1.00E+01 | 4.32E-01 | 9.55E+00 | 9.98E+00 | 1.73E+01 | 3.82E+02 | 3.99E+02 | 2.80E+01 | 6.60E+01 | 6E-01 | 3E-01 | **1E+01** | **6E+00** | **1E+01** | **6E+00** |
| | **Mercury** | **1.42E+00** | **2.74E+01** | 8.00E-01 | 8.24E-03 | 1.64E-01 | 1.72E-01 | 2.64E-02 | 5.25E-01 | 5.51E-01 | 4.40E-01 | 8.00E-01 | 6E-02 | 3E-02 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Hawk - high** | **tPCB-high** | **5.55E+00** | **9.95E+00** | 1.00E+01 | 4.32E-01 | 9.55E+00 | 9.98E+00 | 1.73E+01 | 3.82E+02 | 3.99E+02 | 2.10E+00 | 4.50E+00 | **8E+00** | **4E+00** | **2E+02** | **8E+01** | **2E+02** | **9E+01** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-35**

**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**

**Reach C2, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **3.75E-01** | **9.95E+00** | 1.00E+01 | 6.04E-03 | NA | 6.04E-03 | 2.42E-01 | -- | 2.42E-01 | 2.80E+01 | 6.60E+01 | 9E-03 | 4E-03 | -- | -- | 9E-03 | 4E-03 |
| | **Mercury** | **7.06E-02** | **2.74E+01** | 8.00E-01 | 2.26E-04 | NA | 2.32E-04 | 7.24E-04 | -- | 7.43E-04 | 4.40E-01 | 8.00E-01 | 2E-03 | 9E-04 | -- | -- | 2E-03 | 9E-04 |
| **Mourning Dove - high** | **tPCB-high** | **3.75E-01** | **9.95E+00** | 1.00E+01 | 6.04E-03 | NA | 6.04E-03 | 2.42E-01 | -- | 2.42E-01 | 2.10E+00 | 4.50E+00 | 1E-01 | 5E-02 | -- | -- | 1E-01 | 5E-02 |
| **Blue Jay - mid** | **tPCB-med** | **3.75E-01** | **9.95E+00** | 1.00E+01 | 5.72E-03 | NA | 5.72E-03 | 2.29E-01 | -- | 2.29E-01 | 2.80E+01 | 6.60E+01 | 8E-03 | 3E-03 | -- | -- | 8E-03 | 3E-03 |
| | **Mercury** | **7.06E-02** | **2.74E+01** | 8.00E-01 | 1.31E-03 | NA | 1.32E-03 | 4.21E-03 | -- | 4.22E-03 | 4.40E-01 | 8.00E-01 | 1E-02 | 5E-03 | -- | -- | 1E-02 | 5E-03 |
| **Blue Jay - high** | **tPCB-high** | **3.75E-01** | **9.95E+00** | 1.00E+01 | 5.72E-03 | NA | 5.72E-03 | 2.29E-01 | -- | 2.29E-01 | 2.10E+00 | 4.50E+00 | 1E-01 | 5E-02 | -- | -- | 1E-01 | 5E-02 |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **3.75E-01** | **9.95E+00** | 1.00E+01 | 3.24E-03 | NA | 3.24E-03 | 1.30E-01 | -- | 1.30E-01 | 2.80E+01 | 6.60E+01 | 5E-03 | 2E-03 | -- | -- | 5E-03 | 2E-03 |
| | **Mercury** | **7.06E-02** | **2.74E+01** | 8.00E-01 | 1.81E-03 | NA | 1.81E-03 | 5.78E-03 | -- | 5.79E-03 | 4.40E-01 | 8.00E-01 | 1E-02 | 7E-03 | -- | -- | 1E-02 | 7E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **3.75E-01** | **9.95E+00** | 1.00E+01 | 3.24E-03 | NA | 3.24E-03 | 1.30E-01 | -- | 1.30E-01 | 2.10E+00 | 4.50E+00 | 6E-02 | 3E-02 | -- | -- | 6E-02 | 3E-02 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **3.75E-01** | **9.95E+00** | 1.00E+01 | 1.28E-03 | 7.25E-02 | 7.38E-02 | 5.12E-02 | 2.90E+00 | 2.95E+00 | 2.80E+01 | 6.60E+01 | 2E-03 | 8E-04 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Mercury** | **7.06E-02** | **2.74E+01** | 8.00E-01 | 6.23E-04 | 5.61E-02 | 5.67E-02 | 1.99E-03 | 1.79E-01 | 1.81E-01 | 4.40E-01 | 8.00E-01 | 5E-03 | 2E-03 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **3.75E-01** | **9.95E+00** | 1.00E+01 | 1.28E-03 | 7.25E-02 | 7.38E-02 | 5.12E-02 | 2.90E+00 | 2.95E+00 | 2.10E+00 | 4.50E+00 | 2E-02 | 1E-02 | **1E+00** | 6E-01 | **1E+00** | 7E-01 |
| **Hawk - mid** | **tPCB-med** | **3.75E-01** | **9.95E+00** | 1.00E+01 | 9.51E-02 | 9.55E+00 | 9.65E+00 | 3.80E+00 | 3.82E+02 | 3.86E+02 | 2.80E+01 | 6.60E+01 | 1E-01 | 6E-02 | **1E+01** | **6E+00** | **1E+01** | **6E+00** |
| | **Mercury** | **7.06E-02** | **2.74E+01** | 8.00E-01 | 4.08E-04 | 1.64E-01 | 1.64E-01 | 1.31E-03 | 5.25E-01 | 5.26E-01 | 4.40E-01 | 8.00E-01 | 3E-03 | 2E-03 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Hawk - high** | **tPCB-high** | **3.75E-01** | **9.95E+00** | 1.00E+01 | 9.51E-02 | 9.55E+00 | 9.65E+00 | 3.80E+00 | 3.82E+02 | 3.86E+02 | 2.10E+00 | 4.50E+00 | **2E+00** | 8E-01 | **2E+02** | **8E+01** | **2E+02** | **9E+01** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-36**

**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**

**Reach C2, Subarea Soil - Central**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **1.76E+00** | **9.95E+00** | 1.00E+01 | 2.09E-02 | NA | 2.09E-02 | 8.36E-01 | -- | 8.36E-01 | 2.80E+01 | 6.60E+01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| | **Mercury** | **1.61E-01** | **2.74E+01** | 8.00E-01 | 5.16E-04 | NA | 5.22E-04 | 1.65E-03 | -- | 1.67E-03 | 4.40E-01 | 8.00E-01 | 4E-03 | 2E-03 | -- | -- | 4E-03 | 2E-03 |
| **Mourning Dove - high** | **tPCB-high** | **1.76E+00** | **9.95E+00** | 1.00E+01 | 2.09E-02 | NA | 2.09E-02 | 8.36E-01 | -- | 8.36E-01 | 2.10E+00 | 4.50E+00 | 4E-01 | 2E-01 | -- | -- | 4E-01 | 2E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.76E+00** | **9.95E+00** | 1.00E+01 | 2.53E-02 | NA | 2.53E-02 | 1.01E+00 | -- | 1.01E+00 | 2.80E+01 | 6.60E+01 | 4E-02 | 2E-02 | -- | -- | 4E-02 | 2E-02 |
| | **Mercury** | **1.61E-01** | **2.74E+01** | 8.00E-01 | 1.70E-03 | NA | 1.71E-03 | 5.45E-03 | -- | 5.47E-03 | 4.40E-01 | 8.00E-01 | 1E-02 | 7E-03 | -- | -- | 1E-02 | 7E-03 |
| **Blue Jay - high** | **tPCB-high** | **1.76E+00** | **9.95E+00** | 1.00E+01 | 2.53E-02 | NA | 2.53E-02 | 1.01E+00 | -- | 1.01E+00 | 2.10E+00 | 4.50E+00 | 5E-01 | 2E-01 | -- | -- | 5E-01 | 2E-01 |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **1.76E+00** | **9.95E+00** | 1.00E+01 | 1.96E-02 | NA | 1.96E-02 | 7.84E-01 | -- | 7.84E-01 | 2.80E+01 | 6.60E+01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| | **Mercury** | **1.61E-01** | **2.74E+01** | 8.00E-01 | 2.14E-03 | NA | 2.14E-03 | 6.84E-03 | -- | 6.85E-03 | 4.40E-01 | 8.00E-01 | 2E-02 | 9E-03 | -- | -- | 2E-02 | 9E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.76E+00** | **9.95E+00** | 1.00E+01 | 1.96E-02 | NA | 1.96E-02 | 7.84E-01 | -- | 7.84E-01 | 2.10E+00 | 4.50E+00 | 4E-01 | 2E-01 | -- | -- | 4E-01 | 2E-01 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.76E+00** | **9.95E+00** | 1.00E+01 | 7.50E-03 | 7.25E-02 | 8.00E-02 | 3.00E-01 | 2.90E+00 | 3.20E+00 | 2.80E+01 | 6.60E+01 | 1E-02 | 5E-03 | 1E-01 | 4E-02 | 1E-01 | 5E-02 |
| | **Mercury** | **1.61E-01** | **2.74E+01** | 8.00E-01 | 7.74E-04 | 5.61E-02 | 5.68E-02 | 2.48E-03 | 1.79E-01 | 1.82E-01 | 4.40E-01 | 8.00E-01 | 6E-03 | 3E-03 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **1.76E+00** | **9.95E+00** | 1.00E+01 | 7.50E-03 | 7.25E-02 | 8.00E-02 | 3.00E-01 | 2.90E+00 | 3.20E+00 | 2.10E+00 | 4.50E+00 | 1E-01 | 7E-02 | **1E+00** | 6E-01 | **2E+00** | 7E-01 |
| **Hawk - mid** | **tPCB-med** | **1.76E+00** | **9.95E+00** | 1.00E+01 | 2.25E-01 | 9.55E+00 | 9.78E+00 | 9.00E+00 | 3.82E+02 | 3.91E+02 | 2.80E+01 | 6.60E+01 | 3E-01 | 1E-01 | **1E+01** | **6E+00** | **1E+01** | **6E+00** |
| | **Mercury** | **1.61E-01** | **2.74E+01** | 8.00E-01 | 9.31E-04 | 1.64E-01 | 1.65E-01 | 2.98E-03 | 5.25E-01 | 5.28E-01 | 4.40E-01 | 8.00E-01 | 7E-03 | 4E-03 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Hawk - high** | **tPCB-high** | **1.76E+00** | **9.95E+00** | 1.00E+01 | 2.25E-01 | 9.55E+00 | 9.78E+00 | 9.00E+00 | 3.82E+02 | 3.91E+02 | 2.10E+00 | 4.50E+00 | **4E+00** | **2E+00** | **2E+02** | **8E+01** | **2E+02** | **9E+01** |

**Notes:**

COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-37**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C2, Aquatic and Subarea Soil - Riparian**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Tree Swallow - mid** | **tPCB-med** | **3.20E+01** | **9.95E+00** | 1.00E+01 | NA | 1.01E+00 | 1.01E+00 | -- | 4.05E+01 | 4.05E+01 | 2.80E+01 | 6.60E+01 | -- | -- | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Mercury** | **4.89E-01** | **2.74E+01** | 8.00E-01 | NA | 4.55E-02 | 4.55E-02 | -- | 1.46E-01 | 1.46E-01 | 4.40E-01 | 8.00E-01 | -- | -- | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | **3.20E+01** | **9.95E+00** | 1.00E+01 | NA | 1.01E+00 | 1.01E+00 | -- | 4.05E+01 | 4.05E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **2E+01** | **9E+00** | **2E+01** | **9E+00** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **3.20E+01** | **9.95E+00** | 1.00E+01 | 5.96E-01 | 5.01E-02 | 6.46E-01 | 2.38E+01 | 2.00E+00 | 2.58E+01 | 2.80E+01 | 6.60E+01 | 9E-01 | 4E-01 | 7E-02 | 3E-02 | 9E-01 | 4E-01 |
| | **Mercury** | **4.89E-01** | **2.74E+01** | 8.00E-01 | 5.42E-03 | 2.22E-02 | 2.77E-02 | 1.73E-02 | 7.12E-02 | 8.85E-02 | 4.40E-01 | 8.00E-01 | 4E-02 | 2E-02 | 2E-01 | 9E-02 | 2E-01 | 1E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **3.20E+01** | **9.95E+00** | 1.00E+01 | 5.96E-01 | 5.01E-02 | 6.46E-01 | 2.38E+01 | 2.00E+00 | 2.58E+01 | 2.10E+00 | 4.50E+00 | **1E+01** | **5E+00** | 1E+00 | 4E-01 | **1E+01** | **6E+00** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **3.20E+01** | **9.95E+00** | 1.00E+01 | NA | 9.53E-01 | 9.53E-01 | -- | 3.81E+01 | 3.81E+01 | 2.80E+01 | 6.60E+01 | -- | -- | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Mercury** | **4.89E-01** | **2.74E+01** | 8.00E-01 | NA | 1.46E-01 | 1.46E-01 | -- | 4.67E-01 | 4.67E-01 | 4.40E-01 | 8.00E-01 | -- | -- | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **3.20E+01** | **9.95E+00** | 1.00E+01 | NA | 9.53E-01 | 9.53E-01 | -- | 3.81E+01 | 3.81E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **3.20E+01** | **9.95E+00** | 1.00E+01 | NA | 3.87E+00 | 3.87E+00 | -- | 1.55E+02 | 1.55E+02 | 2.80E+01 | 6.60E+01 | -- | -- | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Mercury** | **4.89E-01** | **2.74E+01** | 8.00E-01 | NA | 1.02E-01 | 1.02E-01 | -- | 3.27E-01 | 3.27E-01 | 4.40E-01 | 8.00E-01 | -- | -- | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | **3.20E+01** | **9.95E+00** | 1.00E+01 | NA | 3.87E+00 | 3.87E+00 | -- | 1.55E+02 | 1.55E+02 | 2.10E+00 | 4.50E+00 | -- | -- | **7E+01** | **3E+01** | **7E+01** | **3E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **3.20E+01** | **9.95E+00** | 1.00E+01 | NA | 3.13E+00 | 3.13E+00 | -- | 1.25E+02 | 1.25E+02 | 2.80E+01 | 6.60E+01 | -- | -- | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Mercury** | **4.89E-01** | **2.74E+01** | 8.00E-01 | NA | 8.56E-02 | 8.56E-02 | -- | 2.74E-01 | 2.74E-01 | 4.40E-01 | 8.00E-01 | -- | -- | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | **3.20E+01** | **9.95E+00** | 1.00E+01 | NA | 3.13E+00 | 3.13E+00 | -- | 1.25E+02 | 1.25E+02 | 2.10E+00 | 4.50E+00 | -- | -- | **6E+01** | **3E+01** | **6E+01** | **3E+01** |
| **GBH - mid** | **tPCB-med** | **3.20E+01** | **9.95E+00** | 1.00E+01 | 5.54E-02 | 8.58E+01 | 8.59E+01 | 2.22E+00 | 3.43E+03 | 3.43E+03 | 2.80E+01 | 6.60E+01 | 8E-02 | 3E-02 | **1E+02** | **5E+01** | **1E+02** | **5E+01** |
| | **Mercury** | **4.89E-01** | **2.74E+01** | 8.00E-01 | 1.96E-05 | 3.01E+00 | 3.01E+00 | 6.26E-05 | 9.62E+00 | 9.62E+00 | 4.40E-01 | 8.00E-01 | 1E-04 | 8E-05 | **2E+01** | **1E+01** | **2E+01** | **1E+01** |
| **GBH - high** | **tPCB-high** | **3.20E+01** | **9.95E+00** | 1.00E+01 | 5.54E-02 | 8.58E+01 | 8.59E+01 | 2.22E+00 | 3.43E+03 | 3.43E+03 | 2.10E+00 | 4.50E+00 | **1E+00** | 5E-01 | **2E+03** | **8E+02** | **2E+03** | **8E+02** |
| **Osprey - mid** | **tPCB-med** | **3.20E+01** | **9.95E+00** | 1.00E+01 | NA | 2.50E+01 | 2.50E+01 | -- | 1.00E+03 | 1.00E+03 | 2.80E+01 | 6.60E+01 | -- | -- | **4E+01** | **2E+01** | **4E+01** | **2E+01** |
| | **Mercury** | **4.89E-01** | **2.74E+01** | 8.00E-01 | NA | 8.14E-01 | 8.14E-01 | -- | 2.60E+00 | 2.60E+00 | 4.40E-01 | 8.00E-01 | -- | -- | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Osprey - high** | **tPCB-high** | **3.20E+01** | **9.95E+00** | 1.00E+01 | NA | 2.50E+01 | 2.50E+01 | -- | 1.00E+03 | 1.00E+03 | 2.10E+00 | 4.50E+00 | -- | -- | **5E+02** | **2E+02** | **5E+02** | **2E+02** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-38**

**Lower Trophic Level Terrestrial Risk Calculations For Reach C3**

**Anniston PCB Site, Anniston, Alabama**

| Media | Receptor Community | COPC | Soil EPC (mg/kg) | Toxicity Benchmarks[a] (mg/kg) | | Hazard Quotients | |
|---|---|---|---|---|---|---|---|
| | | | | NOAEL | LOAEL | NOAEL | LOAEL |
| Soil - North | **Terrestrial Plants** | **PCB** | 1.36E+01 | 4.00E+01 | NA | 3E-01 | -- |
| | | **Chromium** | 1.79E+01 | 1.00E+00 | NA | **2E+01** | -- |
| | | **Lead** | 4.31E+01 | 1.20E+02 | NA | 4E-01 | -- |
| | | **Mercury** | 3.16E+00 | 3.00E-01 | NA | **1E+01** | -- |
| | | **Vanadium** | 1.96E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 1.36E+01 | 3.60E+00 | 3.60E+01 | **4E+00** | 4E-01 |
| | | **Chromium** | 1.79E+01 | 4.00E-01 | NA | **4E+01** | -- |
| | | **Lead** | 4.31E+01 | 1.70E+03 | NA | 3E-02 | -- |
| | | **Mercury** | 3.16E+00 | 1.00E-01 | 0.23 | **3E+01** | **1E+01** |
| | | **Vanadium** | 1.96E+01 | NA | NA | -- | -- |
| Soil - South | **Terrestrial Plants** | **PCB** | 2.83E+01 | 4.00E+01 | NA | 7E-01 | -- |
| | | **Chromium** | 5.52E+01 | 1.00E+00 | NA | **6E+01** | -- |
| | | **Lead** | 1.06E+02 | 1.20E+02 | NA | 9E-01 | -- |
| | | **Mercury** | 3.36E+00 | 3.00E-01 | NA | **1E+01** | -- |
| | | **Vanadium** | 2.48E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 2.83E+01 | 3.60E+00 | 3.60E+01 | **8E+00** | 8E-01 |
| | | **Chromium** | 5.52E+01 | 4.00E-01 | NA | **1E+02** | -- |
| | | **Lead** | 1.06E+02 | 1.70E+03 | NA | 6E-02 | -- |
| | | **Mercury** | 3.36E+00 | 1.00E-01 | 0.23 | **3E+01** | **1E+01** |
| | | **Vanadium** | 2.48E+01 | NA | NA | -- | -- |
| Soil - Riparian | **Terrestrial Plants** | **PCB** | 2.40E+01 | 4.00E+01 | NA | 6E-01 | -- |
| | | **Chromium** | 1.62E+01 | 1.00E+00 | NA | **2E+01** | -- |
| | | **Lead** | 3.59E+01 | 1.20E+02 | NA | 3E-01 | -- |
| | | **Mercury** | 5.91E+00 | 3.00E-01 | NA | **2E+01** | -- |
| | | **Vanadium** | 1.58E+01 | 2.00E+00 | NA | **8E+00** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 2.40E+01 | 3.60E+00 | 3.60E+01 | **7E+00** | 7E-01 |
| | | **Chromium** | 1.62E+01 | 4.00E-01 | NA | **4E+01** | -- |
| | | **Lead** | 3.59E+01 | 1.70E+03 | NA | 2E-02 | -- |
| | | **Mercury** | 5.91E+00 | 1.00E-01 | 0.23 | **6E+01** | **3E+01** |
| | | **Vanadium** | 1.58E+01 | NA | NA | -- | -- |

**Notes:**

a = NOAELs represent chronic values and LOAELs represent acute values
COPC = constituent of potential concern
EPC - exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
NA = not applicable
NOAEL = no observed adverse effect level
OU = Operable Unit
PCB = total polychlorinated biphenyl

**Bold indicates hazard quotients greater than 1**

**Table E3-39**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C3**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-39**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C3**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | |
|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Tree Swallow - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Tree Swallow - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Osprey - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Osprey - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Bat** | **tPCB** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Otter** | **tPCB-mink** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |

**Table E3-39**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C3**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-39**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C3**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 5.31E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 5.31E+00 | 5.31E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.06E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 1.06E+00 | 1.09E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 5.48E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 5.48E+00 | 5.48E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 1.87E-01 | 1.89E-01 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 6.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 6.86E-02 | 8.27E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 7.59E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 7.59E-02 | 7.60E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 3.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 3.30E-01 | 3.34E-01 | 3.44E-01 | 7.00E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 5.31E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 5.31E+00 | 5.31E+00 | 4.33E-02 | 1.30E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 1.11E-01 | 0.00E+00 | 5.22E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.51E-02 | 2.66E-05 | 5.37E+00 | 5.37E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 6.73E+00 | 0.00E+00 | 6.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.66E+00 | 2.06E-02 | 1.61E+01 | 1.61E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 6.54E-01 | 0.00E+00 | 6.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.67E-01 | 3.06E-03 | 1.97E+00 | 1.98E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 1.16E+00 | 0.00E+00 | 1.16E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.36E-01 | 2.07E-03 | 2.66E+00 | 2.67E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 9.86E-01 | 0.00E+00 | 9.86E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.45E-01 | 1.14E-02 | 2.42E+00 | 2.43E+00 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 2.78E-02 | 0.00E+00 | 8.54E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.07E-02 | 7.31E-05 | 1.44E-01 | 1.44E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 6.69E-01 | 0.00E+00 | 6.69E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.51E-01 | 2.91E-03 | 1.89E+00 | 1.89E+00 | 3.44E-01 | 7.00E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 1.11E-01 | 0.00E+00 | 5.22E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.51E-02 | 2.66E-05 | 5.37E+00 | 5.37E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.87E+00 | 0.00E+00 | 0.00E+00 | 3.45E-03 | 1.72E-05 | 2.88E+00 | 2.88E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E+01 | 0.00E+00 | 0.00E+00 | 2.61E-01 | 1.33E-02 | 1.25E+01 | 1.25E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 0.00E+00 | 0.00E+00 | 6.56E-02 | 1.98E-03 | 2.01E+00 | 2.01E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 3.31E-02 | 1.34E-03 | 3.08E+00 | 3.08E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.77E-02 | 0.00E+00 | 0.00E+00 | 4.38E-02 | 7.40E-03 | 9.15E-02 | 9.89E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.12E-02 | 0.00E+00 | 0.00E+00 | 3.02E-03 | 4.73E-05 | 2.42E-02 | 2.42E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.35E-01 | 0.00E+00 | 0.00E+00 | 5.42E-02 | 1.88E-03 | 4.89E-01 | 4.91E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.87E+00 | 0.00E+00 | 0.00E+00 | 3.45E-03 | 1.72E-05 | 2.88E+00 | 2.88E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.29E-02 | 0.00E+00 | 0.00E+00 | 2.18E+00 | 0.00E+00 | 7.48E-02 | 3.45E-03 | 1.72E-05 | 2.33E+00 | 2.33E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E+01 | 0.00E+00 | 0.00E+00 | 9.32E+00 | 0.00E+00 | 7.67E-01 | 2.61E-01 | 1.33E-02 | 2.44E+01 | 2.45E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.77E-02 | 0.00E+00 | 0.00E+00 | 1.48E+00 | 0.00E+00 | 1.81E-01 | 6.56E-02 | 1.98E-03 | 1.77E+00 | 1.77E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 3.23E-02 | 3.31E-02 | 1.34E-03 | 2.98E+00 | 2.98E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.39E-02 | 0.00E+00 | 0.00E+00 | 3.63E-02 | 0.00E+00 | 4.31E-02 | 4.38E-02 | 7.40E-03 | 1.77E-01 | 1.84E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.56E-03 | 0.00E+00 | 0.00E+00 | 1.61E-02 | 0.00E+00 | 4.43E-03 | 3.02E-03 | 4.73E-05 | 2.91E-02 | 2.92E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.65E-02 | 0.00E+00 | 0.00E+00 | 3.31E-01 | 0.00E+00 | 2.45E-02 | 5.42E-02 | 1.88E-03 | 5.06E-01 | 5.08E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.29E-02 | 0.00E+00 | 0.00E+00 | 2.18E+00 | 0.00E+00 | 7.48E-02 | 3.45E-03 | 1.72E-05 | 2.33E+00 | 2.33E+00 | 4.33E-02 | 1.30E-01 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 1.72E+00 | 1.72E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 1.73E+00 | 1.74E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.57E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 2.57E-01 | 2.58E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 5.51E-02 | 5.57E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 2.51E-02 | 2.86E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 1.78E-02 | 1.78E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.92E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 5.92E-02 | 6.01E-02 | 3.44E-01 | 7.00E-01 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 1.72E+00 | 1.72E+00 | 4.33E-02 | 1.30E-01 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 3.92E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 3.92E+00 | 3.92E+00 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 7.83E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 7.83E-01 | 8.03E-01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 4.04E+00 | 4.05E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 1.38E-01 | 1.40E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 5.06E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 5.06E-02 | 6.14E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 5.61E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 5.61E-02 | 5.61E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 2.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 2.44E-01 | 2.47E-01 | 4.16E+00 | 8.31E+00 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.08E-01 | 6.77E-01 | 1.91E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.28E+00 | 1.28E+00 | 5.00E-02 | 1.00E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.08E-01 | 6.77E-01 | 1.91E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.28E+00 | 1.28E+00 | na | 5.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.10E-01 | 1.49E-01 | 8.14E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 1.37E+00 | 1.38E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.08E-02 | 2.54E-02 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 2.15E-01 | 2.17E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-02 | 4.84E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.20E-01 | 2.21E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.95E-03 | 2.71E-03 | 3.17E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 1.18E-02 | 1.73E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.22E-03 | 1.01E-02 | 1.41E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 1.57E-02 | 1.57E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-02 | 3.68E-03 | 2.89E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 4.66E-02 | 4.80E-02 | 4.16E+00 | 8.31E+00 |

**Table E3-39**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C3**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 4E-02 | 2E-02 | 5E-02 | 3E-02 |
| | **Mercury** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 1E+00 | 5E-01 | 1E+00 | 5E-01 |
| **Tree Swallow - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Chromium** | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Cobalt** | 4E-01 | 3E-01 | 4E-01 | 3E-01 |
| | **Lead** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Mercury** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | **5E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Barium** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | **7E+01** | **2E+01** | **7E+01** | **2E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 1E-01 | 5E-02 | 1E-01 | 6E-02 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Osprey - mid** | **tPCB-med** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Chromium** | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 7E-03 | 7E-03 | 7E-03 | 7E-03 |
| | **Lead** | 2E-02 | 8E-03 | 2E-02 | 9E-03 |
| | **Mercury** | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| | **Vanadium** | 2E-01 | 8E-02 | 2E-01 | 9E-02 |
| **Osprey - high** | **tPCB-high** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Bat** | **tPCB** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 2E-02 | 6E-03 | 2E-02 | 7E-03 |
| | **Chromium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Cobalt** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 1E-02 | 6E-03 | 1E-02 | 7E-03 |
| | **Mercury** | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Otter** | **tPCB-mink** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | **--** | **3E+01** | **--** | **3E+01** |
| | **Barium** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 3E-03 | 1E-03 | 4E-03 | 2E-03 |
| | **Mercury** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 1E-02 | 6E-03 | 1E-02 | 6E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-40**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **1.36E+01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.31E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **1.36E+01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.36E+01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.31E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **1.36E+01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.36E+01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.31E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.36E+01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **1.36E+01** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.31E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **1.36E+01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.31E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **1.36E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.31E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **1.36E+01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.31E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **1.36E+01** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.31E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-40**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioacccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 9.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.66E-01 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.23E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.21E-02 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.51E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.91E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.46E-01 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.97E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.85E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 9.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.66E-01 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 8.13E-01 | 3.88E-02 | 0.00E+00 | 1.06E+00 | 0.00E+00 | 2.90E-01 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.89E-02 | 9.43E-04 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 6.77E-02 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.92E-01 | 1.24E-01 | 0.00E+00 | 2.76E-01 | 0.00E+00 | 3.83E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.61E-02 | 5.98E-03 | 0.00E+00 | 4.80E-01 | 0.00E+00 | 9.23E-01 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.66E-02 | 2.71E-03 | 0.00E+00 | 2.07E-01 | 0.00E+00 | 4.20E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 8.13E-01 | 3.88E-02 | 0.00E+00 | 1.06E+00 | 0.00E+00 | 2.90E-01 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.49E-01 | 2.53E-01 | 2.31E+00 | 4.77E+00 | 0.00E+00 | 4.62E-01 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.47E-03 | 6.15E-03 | 1.76E-01 | 3.64E-01 | 0.00E+00 | 1.08E-01 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.53E-02 | 8.09E-01 | 6.00E-01 | 1.24E+00 | 0.00E+00 | 6.11E-01 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.97E-03 | 3.90E-02 | 1.04E+00 | 2.15E+00 | 0.00E+00 | 1.47E+00 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.05E-03 | 1.76E-02 | 4.49E-01 | 9.28E-01 | 0.00E+00 | 6.69E-01 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.49E-01 | 2.53E-01 | 2.31E+00 | 4.77E+00 | 0.00E+00 | 4.62E-01 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.05E-01 | 7.51E-02 | 2.99E+00 | 2.06E+00 | 0.00E+00 | 5.20E-02 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.43E-03 | 1.83E-03 | 2.28E-01 | 1.57E-01 | 0.00E+00 | 1.21E-02 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.47E-02 | 2.41E-01 | 7.77E-01 | 5.35E-01 | 0.00E+00 | 6.86E-02 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.08E-03 | 1.16E-02 | 1.35E+00 | 9.29E-01 | 0.00E+00 | 1.65E-01 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.13E-03 | 5.24E-03 | 5.81E-01 | 4.01E-01 | 0.00E+00 | 7.52E-02 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.97E-03 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.32E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.27E-04 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.36E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.25E-03 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.98E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-02 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.04E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.74E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.09E-01 | 3.46E-02 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-03 | 8.08E-03 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.18E-01 | 4.57E-02 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E-01 | 1.10E-01 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 5.00E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.39E-02 | 0.00E+00 | 9.57E-02 | 0.00E+00 | 2.56E-01 | 1.44E-02 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.02E-03 | 0.00E+00 | 7.29E-03 | 0.00E+00 | 9.35E-04 | 3.35E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.04E-02 | 0.00E+00 | 2.49E-02 | 0.00E+00 | 1.60E-01 | 1.90E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.71E-04 | 0.00E+00 | 4.32E-02 | 0.00E+00 | 1.26E-01 | 4.57E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.96E-04 | 0.00E+00 | 1.86E-02 | 0.00E+00 | 1.87E-01 | 2.08E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.29E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.08E-01 | 1.44E-02 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.00E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-03 | 3.35E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.05E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.93E-01 | 1.90E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.56E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.51E-01 | 4.57E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.63E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.08E-02 | 1.45E-03 |

**Table E3-40**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 1.23E+00 | 1.23E+00 | 4.67E-01 | 1.40E+00 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Mercury** | 8.44E-02 | 8.45E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Chromium** | 5.79E-01 | 5.81E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 8.65E-01 | 8.73E-01 | 1.63E+00 | 3.26E+00 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 4.04E-01 | 4.06E-01 | 3.44E-01 | 7.00E-01 | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.23E+00 | 1.23E+00 | 4.33E-02 | 1.30E-01 | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| **Blue Jay - mid** | **tPCB-med** | 2.20E+00 | 2.20E+00 | 4.67E-01 | 1.40E+00 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Mercury** | 1.69E-01 | 1.69E-01 | 2.27E-02 | 6.80E-02 | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Chromium** | 9.76E-01 | 9.78E-01 | 2.66E+00 | 2.80E+00 | 4E-01 | 3E-01 | 4E-01 | 3E-01 |
| | **Lead** | 1.42E+00 | 1.43E+00 | 1.63E+00 | 3.26E+00 | 9E-01 | 4E-01 | 9E-01 | 4E-01 |
| | **Vanadium** | 6.46E-01 | 6.48E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| **Blue Jay - high** | **tPCB-high** | 2.20E+00 | 2.20E+00 | 4.33E-02 | 1.30E-01 | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 7.95E+00 | 7.95E+00 | 4.67E-01 | 1.40E+00 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Mercury** | 6.57E-01 | 6.57E-01 | 2.27E-02 | 6.80E-02 | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Chromium** | 3.30E+00 | 3.30E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | 4.71E+00 | 4.73E+00 | 1.63E+00 | 3.26E+00 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 2.07E+00 | 2.07E+00 | 3.44E-01 | 7.00E-01 | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 7.95E+00 | 7.95E+00 | 4.33E-02 | 1.30E-01 | **2E+02** | **6E+01** | **2E+02** | **6E+01** |
| **Shrew - 1** | **tPCB** | 5.28E+00 | 5.28E+00 | 2.30E-01 | 6.80E-01 | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| | **Mercury** | 4.01E-01 | 4.01E-01 | 7.50E-02 | 1.50E-01 | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| | **Chromium** | 1.65E+00 | 1.65E+00 | 2.40E+00 | 2.82E+00 | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Lead** | 2.46E+00 | 2.47E+00 | 4.70E+00 | 8.90E+00 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 1.06E+00 | 1.07E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| **Deer** | **tPCB** | 1.04E-01 | 1.04E-01 | 2.30E-01 | 6.80E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 3.25E-03 | 3.27E-03 | 7.50E-02 | 1.50E-01 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.88E-02 | 3.00E-02 | 2.40E+00 | 2.82E+00 | 1E-02 | 1E-02 | 1E-02 | 1E-02 |
| | **Lead** | 1.46E-02 | 1.91E-02 | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 4E-03 | 2E-03 |
| | **Vanadium** | 7.78E-03 | 8.91E-03 | 4.16E+00 | 8.31E+00 | 2E-03 | 9E-04 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | 5.43E-01 | 5.43E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 9.93E-03 | 9.98E-03 | 7.50E-02 | 1.50E-01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 3.63E-01 | 3.65E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 3.60E-01 | 3.67E-01 | 4.70E+00 | 8.90E+00 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 4.21E-01 | 4.23E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 4.10E-01 | 4.10E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | 1.26E-02 | 1.26E-02 | 7.50E-02 | 1.50E-01 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 2.14E-01 | 2.16E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Lead** | 2.16E-01 | 2.21E-01 | 4.70E+00 | 8.90E+00 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Vanadium** | 2.27E-01 | 2.29E-01 | 4.16E+00 | 8.31E+00 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 3.35E-01 | 3.35E-01 | 2.30E-01 | 6.80E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Mercury** | 4.78E-03 | 4.81E-03 | 7.50E-02 | 1.50E-01 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Chromium** | 2.15E-01 | 2.16E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Lead** | 1.97E-01 | 2.03E-01 | 4.70E+00 | 8.90E+00 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Vanadium** | 2.46E-01 | 2.47E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-41**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **2.83E+01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.06E+02** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **2.83E+01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **2.83E+01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.06E+02** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **2.83E+01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **2.83E+01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.06E+02** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **2.83E+01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **2.83E+01** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.06E+02** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **2.83E+01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.06E+02** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **2.83E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.06E+02** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **2.83E+01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.06E+02** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **2.83E+01** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.06E+02** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-41**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.99E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.55E-01 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.37E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.59E-02 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 7.01E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E+00 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 4.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.08E+00 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.49E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.87E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.99E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.55E-01 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.68E+00 | 8.09E-02 | 0.00E+00 | 2.23E+00 | 0.00E+00 | 6.06E-01 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.00E-02 | 1.00E-03 | 0.00E+00 | 8.52E-02 | 0.00E+00 | 7.19E-02 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.92E-01 | 1.24E-01 | 0.00E+00 | 8.52E-01 | 0.00E+00 | 1.18E+00 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.97E-02 | 1.47E-02 | 0.00E+00 | 1.18E+00 | 0.00E+00 | 2.27E+00 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.10E-02 | 3.42E-03 | 0.00E+00 | 2.62E-01 | 0.00E+00 | 5.31E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.68E+00 | 8.09E-02 | 0.00E+00 | 2.23E+00 | 0.00E+00 | 6.06E-01 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.09E-01 | 5.28E-01 | 4.84E+00 | 1.00E+01 | 0.00E+00 | 9.66E-01 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.68E-03 | 6.52E-03 | 1.85E-01 | 3.83E-01 | 0.00E+00 | 1.15E-01 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.09E-01 | 8.09E-01 | 1.85E+00 | 3.83E+00 | 0.00E+00 | 1.88E+00 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 7.30E-03 | 9.58E-02 | 2.56E+00 | 5.30E+00 | 0.00E+00 | 3.62E+00 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.86E-03 | 2.23E-02 | 5.68E-01 | 1.17E+00 | 0.00E+00 | 8.46E-01 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.09E-01 | 5.28E-01 | 4.84E+00 | 1.00E+01 | 0.00E+00 | 9.66E-01 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.16E-01 | 1.57E-01 | 6.27E+00 | 4.32E+00 | 0.00E+00 | 1.09E-01 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.57E-03 | 1.94E-03 | 2.39E-01 | 1.65E-01 | 0.00E+00 | 1.29E-02 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 7.61E-02 | 2.41E-01 | 2.39E+00 | 1.65E+00 | 0.00E+00 | 2.12E-01 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 5.10E-03 | 2.85E-02 | 3.32E+00 | 2.29E+00 | 0.00E+00 | 4.06E-01 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.70E-03 | 6.64E-03 | 7.35E-01 | 5.07E-01 | 0.00E+00 | 9.51E-02 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.07E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.29E-03 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.46E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-04 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 7.27E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E-02 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 4.88E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.11E-02 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.58E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.27E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 7.22E-02 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E-03 | 8.57E-03 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-01 | 1.41E-01 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.15E-01 | 2.71E-01 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 6.33E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 9.08E-02 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 3.83E-01 | 3.00E-02 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.08E-03 | 0.00E+00 | 7.67E-03 | 0.00E+00 | 9.92E-04 | 3.56E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.19E-02 | 0.00E+00 | 7.67E-02 | 0.00E+00 | 4.94E-01 | 5.85E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.14E-03 | 0.00E+00 | 1.06E-01 | 0.00E+00 | 3.10E-01 | 1.12E-01 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-03 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 1.87E-01 | 2.63E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.67E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.60E-01 | 3.00E-02 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.18E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.19E-03 | 3.56E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 9.39E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.94E-01 | 5.85E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.72E-01 | 1.12E-01 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.33E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.63E-02 | 1.45E-03 |

**Table E3-41**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 2.55E+00 | 2.55E+00 | 4.67E-01 | 1.40E+00 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Mercury** | 8.96E-02 | 8.96E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Chromium** | 1.78E+00 | 1.79E+00 | 2.66E+00 | 2.80E+00 | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Lead** | 2.13E+00 | 2.14E+00 | 1.63E+00 | 3.26E+00 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Vanadium** | 5.12E-01 | 5.14E-01 | 3.44E-01 | 7.00E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | 2.55E+00 | 2.55E+00 | 4.33E-02 | 1.30E-01 | **6E+01** | **2E+01** | **6E+01** | **2E+01** |
| **Blue Jay - mid** | **tPCB-med** | 4.60E+00 | 4.60E+00 | 4.67E-01 | 1.40E+00 | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Mercury** | 1.78E-01 | 1.78E-01 | 2.27E-02 | 6.80E-02 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Chromium** | 2.75E+00 | 2.75E+00 | 2.66E+00 | 2.80E+00 | 1E+00 | 1E+00 | 1E+00 | 1E+00 |
| | **Lead** | 3.50E+00 | 3.51E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 8.17E-01 | 8.19E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | 4.60E+00 | 4.60E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 1.67E+01 | 1.67E+01 | 4.67E-01 | 1.40E+00 | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| | **Mercury** | 6.92E-01 | 6.93E-01 | 2.27E-02 | 6.80E-02 | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Chromium** | 8.48E+00 | 8.48E+00 | 2.66E+00 | 2.80E+00 | **3E+00** | **3E+00** | **3E+00** | **3E+00** |
| | **Lead** | 1.16E+01 | 1.16E+01 | 1.63E+00 | 3.26E+00 | **7E+00** | **4E+00** | **7E+00** | **4E+00** |
| | **Vanadium** | 2.62E+00 | 2.62E+00 | 3.44E-01 | 7.00E-01 | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 1.67E+01 | 1.67E+01 | 4.33E-02 | 1.30E-01 | **4E+02** | **1E+02** | **4E+02** | **1E+02** |
| **Shrew - 1** | **tPCB** | 1.11E+01 | 1.11E+01 | 2.30E-01 | 6.80E-01 | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| | **Mercury** | 4.22E-01 | 4.22E-01 | 7.50E-02 | 1.50E-01 | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Chromium** | 4.57E+00 | 4.58E+00 | 2.40E+00 | 2.82E+00 | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Lead** | 6.04E+00 | 6.05E+00 | 4.70E+00 | 8.90E+00 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Vanadium** | 1.35E+00 | 1.35E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| **Deer** | **tPCB** | 2.15E-01 | 2.15E-01 | 2.30E-01 | 6.80E-01 | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Mercury** | 3.44E-03 | 3.47E-03 | 7.50E-02 | 1.50E-01 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 8.89E-02 | 9.01E-02 | 2.40E+00 | 2.82E+00 | 4E-02 | 3E-02 | 4E-02 | 3E-02 |
| | **Lead** | 3.59E-02 | 4.04E-02 | 4.70E+00 | 8.90E+00 | 8E-03 | 4E-03 | 9E-03 | 5E-03 |
| | **Vanadium** | 9.85E-03 | 1.10E-02 | 4.16E+00 | 8.31E+00 | 2E-03 | 1E-03 | 3E-03 | 1E-03 |
| **Weasel** | **tPCB** | 8.32E-01 | 8.32E-01 | 2.30E-01 | 6.80E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Mercury** | 1.05E-02 | 1.06E-02 | 7.50E-02 | 1.50E-01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 1.12E+00 | 1.12E+00 | 2.40E+00 | 2.82E+00 | 5E-01 | 4E-01 | 5E-01 | 4E-01 |
| | **Lead** | 8.85E-01 | 8.93E-01 | 4.70E+00 | 8.90E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.34E-01 | 4.36E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 7.04E-01 | 7.04E-01 | 2.30E-01 | 6.80E-01 | **3E+00** | 1E+00 | **3E+00** | 1E+00 |
| | **Mercury** | 1.33E-02 | 1.33E-02 | 7.50E-02 | 1.50E-01 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 6.61E-01 | 6.62E-01 | 2.40E+00 | 2.82E+00 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Lead** | 5.31E-01 | 5.36E-01 | 4.70E+00 | 8.90E+00 | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Vanadium** | 2.38E-01 | 2.39E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 5.17E-01 | 5.17E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 5.07E-03 | 5.11E-03 | 7.50E-02 | 1.50E-01 | 7E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 6.62E-01 | 6.63E-01 | 2.40E+00 | 2.82E+00 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Lead** | 4.86E-01 | 4.91E-01 | 4.70E+00 | 8.90E+00 | 1E-01 | 5E-02 | 1E-01 | 6E-02 |
| | **Vanadium** | 2.51E-01 | 2.53E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-42**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.36E+01** | **1.10E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **8.29E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.79E+01** | **2.08E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.06E+01** | **1.05E+01** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **4.31E+01** | **1.39E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.16E+00** | **9.59E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.96E+01** | **1.72E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.36E+01** | **1.10E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.36E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.79E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.06E+01** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **4.31E+01** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.16E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.96E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.36E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.36E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.79E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.06E+01** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **4.31E+01** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.16E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.96E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **1.36E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.79E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.06E+01** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **4.31E+01** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.16E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.96E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |

**Table E3-42**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-42**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-42**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-42**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - North**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 8.33E+01 | 8.67E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 8.33E+01 | 8.67E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-42**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - North**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.45E-02 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 2.53E-01 | 0.00E+00 | 3.47E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 2.68E+00 | 0.00E+00 | 0.00E+00 | 4.10E+00 | 0.00E+00 | 5.89E-01 | 0.00E+00 | 5.13E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.29E-01 | 0.00E+00 | 0.00E+00 | 6.00E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.44E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 3.33E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 6.81E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.55E-01 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 3.90E-02 | 0.00E+00 | 6.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.89E-03 | 0.00E+00 | 0.00E+00 | 1.76E-01 | 0.00E+00 | 6.15E-03 | 0.00E+00 | 1.47E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.24E-01 | 0.00E+00 | 0.00E+00 | 4.49E-01 | 0.00E+00 | 1.76E-02 | 0.00E+00 | 8.15E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.45E-02 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 2.53E-01 | 0.00E+00 | 3.47E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.94E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.18E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 8.04E-02 | 0.00E+00 | 1.69E-01 | 0.00E+00 | 6.18E-03 | 1.69E-01 | 0.00E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 7.33E-03 | 1.44E-02 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 1.41E+00 | 0.00E+00 | 3.01E-01 | 0.00E+00 | 1.44E-02 | 3.01E-01 | 0.00E+00 | 4.10E-02 | 0.00E+00 | 0.00E+00 | 1.64E+00 | 1.45E-02 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 1.90E-02 | 0.00E+00 | 4.40E-02 | 0.00E+00 | 1.98E-02 | 4.40E-02 | 0.00E+00 | 7.61E-03 | 0.00E+00 | 0.00E+00 | 5.56E-03 | 2.14E-03 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 7.11E-03 | 0.00E+00 | 2.44E-02 | 0.00E+00 | 4.95E-02 | 2.44E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 4.60E-04 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.60E-03 | 0.00E+00 | 7.65E-02 | 0.00E+00 | 9.53E-04 | 7.65E-02 | 0.00E+00 | 5.99E-03 | 0.00E+00 | 0.00E+00 | 6.28E-03 | 2.10E-04 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.87E-03 | 0.00E+00 | 1.29E-02 | 0.00E+00 | 1.50E-04 | 1.29E-02 | 0.00E+00 | 4.44E-05 | 0.00E+00 | 0.00E+00 | 6.48E-04 | 1.49E-04 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.64E-03 | 0.00E+00 | 3.30E-02 | 0.00E+00 | 4.32E-04 | 3.30E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 4.95E-04 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 1.48E-01 | 0.00E+00 | 3.31E+00 | 0.00E+00 | 5.15E-02 | 1.41E+00 | 0.00E+00 | 5.48E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.59E+00 | 0.00E+00 | 5.87E+00 | 0.00E+00 | 1.20E-01 | 2.51E+00 | 0.00E+00 | 1.84E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 3.50E-02 | 0.00E+00 | 8.61E-01 | 0.00E+00 | 1.65E-01 | 3.67E-01 | 0.00E+00 | 3.42E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 1.31E-02 | 0.00E+00 | 4.77E-01 | 0.00E+00 | 4.13E-01 | 2.03E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.94E-03 | 0.00E+00 | 1.49E+00 | 0.00E+00 | 7.94E-03 | 6.38E-01 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 3.44E-03 | 0.00E+00 | 2.52E-01 | 0.00E+00 | 1.25E-03 | 1.08E-01 | 0.00E+00 | 2.00E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 3.02E-03 | 0.00E+00 | 6.44E-01 | 0.00E+00 | 3.60E-03 | 2.75E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-42**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - North**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.62E-01 | 0.00E+00 | 4.23E-05 | 3.02E+00 | 3.62E-01 | 3.39E+00 | 3.39E+00 | 4.67E-01 | 1.40E+00 | **6E+00** | **2E+00** | 8E-01 | 3E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.67E+00 | 0.00E+00 | 3.27E-02 | 9.36E+00 | 7.81E+00 | 1.72E+01 | 1.72E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.11E-01 | 0.00E+00 | 4.86E-03 | 2.02E+00 | 1.57E+00 | 3.59E+00 | 3.60E+00 | 2.66E+00 | 2.80E+00 | 8E-01 | 7E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.62E-01 | 0.00E+00 | 3.29E-03 | 2.72E+00 | 1.44E+00 | 4.16E+00 | 4.16E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 3E-01 | 2E-01 | 2E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 1.82E-02 | 2.55E+00 | 8.50E-01 | 3.40E+00 | 3.42E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 8E-01 | 5E-01 | 3E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-01 | 0.00E+00 | 1.16E-04 | 2.90E-01 | 1.48E-01 | 4.39E-01 | 4.39E-01 | 2.27E-02 | 6.80E-02 | **1E+01** | **4E+00** | **7E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.69E-01 | 0.00E+00 | 4.62E-03 | 1.14E+00 | 9.39E-01 | 2.07E+00 | 2.08E+00 | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **3E+00** | **1E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.62E-01 | 0.00E+00 | 4.23E-05 | 3.02E+00 | 3.62E-01 | 3.39E+00 | 3.39E+00 | 4.33E-02 | 1.30E-01 | **7E+01** | **2E+01** | **8E+00** | **3E+00** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 9.51E-01 | 0.00E+00 | 6.19E-02 | 5.01E-03 | 8.93E-06 | 6.59E-01 | 9.56E-01 | 1.62E+00 | 1.62E+00 | 4.67E-01 | 1.40E+00 | **1E+00** | 5E-01 | **2E+00** | 7E-01 |
| | **Barium** | 0.00E+00 | 2.29E-01 | 0.00E+00 | 6.26E-01 | 3.79E-01 | 6.90E-03 | 2.64E+00 | 6.08E-01 | 3.25E+00 | 3.25E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 6E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 8.18E-02 | 9.50E-02 | 1.03E-03 | 4.55E-01 | 1.89E-01 | 6.44E-01 | 6.45E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 7E-02 | 7E-02 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 4.84E-02 | 4.80E-02 | 6.95E-04 | 1.14E+00 | 2.83E-01 | 1.42E+00 | 1.42E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 4E-02 | 4E-02 |
| | **Lead** | 0.00E+00 | 1.29E-02 | 0.00E+00 | 1.97E-01 | 6.35E-02 | 3.84E-03 | 4.91E-01 | 7.64E-02 | 5.67E-01 | 5.71E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 2E-01 | 5E-02 | 2E-02 |
| | **Mercury** | 0.00E+00 | 1.16E-02 | 0.00E+00 | 1.45E-02 | 4.38E-03 | 2.45E-05 | 1.66E-02 | 1.60E-02 | 3.26E-02 | 3.26E-02 | 2.27E-02 | 6.80E-02 | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 8.96E-02 | 7.86E-02 | 9.75E-04 | 5.25E-01 | 1.72E-01 | 6.98E-01 | 6.99E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 5E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 9.51E-01 | 0.00E+00 | 6.19E-02 | 5.01E-03 | 8.93E-06 | 6.59E-01 | 9.56E-01 | 1.62E+00 | 1.62E+00 | 4.33E-02 | 1.30E-01 | **2E+01** | **5E+00** | **2E+01** | **7E+00** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 4.90E-02 | 7.64E-03 | 3.42E-02 | 0.00E+00 | 1.30E-05 | 4.72E-01 | 7.83E-02 | 5.50E-01 | 5.50E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 7E-01 | 3E-01 | 1E-01 |
| | **Barium** | 0.00E+00 | 1.18E-02 | 7.84E-02 | 3.45E-01 | 0.00E+00 | 1.00E-02 | 2.41E+00 | 1.75E+00 | 4.16E+00 | 4.17E+00 | 5.18E+01 | 1.21E+02 | 5E-02 | 2E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 1.85E-02 | 4.51E-02 | 0.00E+00 | 1.49E-03 | 1.80E-01 | 3.10E-02 | 2.11E-01 | 2.12E-01 | 2.40E+00 | 2.82E+00 | 7E-02 | 6E-02 | 1E-02 | 1E-02 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 3.30E-03 | 2.67E-02 | 0.00E+00 | 1.01E-03 | 1.54E-01 | 8.56E-02 | 2.40E-01 | 2.41E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 2E-02 | 1E-02 | 9E-03 |
| | **Lead** | 0.00E+00 | 6.64E-04 | 4.40E-03 | 1.09E-01 | 0.00E+00 | 5.59E-03 | 2.70E-01 | 1.16E-02 | 2.82E-01 | 2.87E-01 | 4.70E+00 | 8.90E+00 | 6E-02 | 3E-02 | 2E-03 | 1E-03 |
| | **Mercury** | 0.00E+00 | 5.97E-04 | 4.52E-04 | 7.98E-03 | 0.00E+00 | 3.57E-05 | 3.59E-02 | 1.85E-03 | 3.77E-02 | 3.77E-02 | 7.50E-02 | 1.50E-01 | 5E-01 | 2E-01 | 2E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 2.50E-03 | 4.94E-02 | 0.00E+00 | 1.42E-03 | 1.26E-01 | 1.91E-02 | 1.45E-01 | 1.47E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 5E-03 | 2E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 1.17E-01 | 1.21E-02 | 5.20E-02 | 4.20E-03 | 2.35E-05 | 5.03E+00 | 1.33E-01 | 5.16E+00 | 5.16E+00 | 2.30E-01 | 6.80E-01 | **2E+01** | **7E+00** | 6E-01 | 2E-01 |
| | **Barium** | 0.00E+00 | 2.81E-02 | 1.24E-01 | 5.25E-01 | 3.18E-01 | 1.82E-02 | 1.18E+01 | 4.70E-01 | 1.23E+01 | 1.23E+01 | 5.18E+01 | 1.21E+02 | 2E-01 | 1E-01 | 9E-03 | 4E-03 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 2.94E-02 | 6.86E-02 | 7.98E-02 | 2.70E-03 | 1.53E+00 | 1.21E-01 | 1.65E+00 | 1.65E+00 | 2.40E+00 | 2.82E+00 | 6E-01 | 5E-01 | 5E-02 | 4E-02 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 5.23E-03 | 4.06E-02 | 4.03E-02 | 1.83E-03 | 1.25E+00 | 7.43E-02 | 1.32E+00 | 1.32E+00 | 7.33E+00 | 1.00E+01 | 2E-01 | 1E-01 | 1E-02 | 7E-03 |
| | **Lead** | 0.00E+00 | 1.58E-03 | 6.99E-03 | 1.65E-01 | 5.33E-02 | 1.01E-02 | 2.34E+00 | 6.19E-02 | 2.40E+00 | 2.41E+00 | 4.70E+00 | 8.90E+00 | 5E-01 | 3E-01 | 1E-02 | 7E-03 |
| | **Mercury** | 0.00E+00 | 1.42E-03 | 7.19E-04 | 1.21E-02 | 3.68E-03 | 6.45E-05 | 3.77E-01 | 5.82E-03 | 3.83E-01 | 3.83E-01 | 7.50E-02 | 1.50E-01 | **5E+00** | **3E+00** | 8E-02 | 4E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 3.97E-03 | 7.52E-02 | 6.60E-02 | 2.57E-03 | 1.04E+00 | 8.14E-02 | 1.12E+00 | 1.12E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 1E-01 | 2E-02 | 1E-02 |

**Table E3-42**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Barium** | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **8E+01** | **3E+01** | **8E+01** | **3E+01** |
| **Hawk - mid** | **tPCB-med** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Barium** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Raccoon - 1** | **tPCB** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Barium** | 8E-02 | 3E-02 | 8E-02 | 3E-02 |
| | **Chromium** | 9E-02 | 7E-02 | 9E-02 | 8E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Mercury** | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 3E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| | **Barium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Mercury** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| | **Vanadium** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-43**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **2.83E+01** | **1.10E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.71E+02** | **8.29E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.52E+01** | **2.08E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.38E+01** | **1.05E+01** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.06E+02** | **1.39E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.36E+00** | **9.59E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.48E+01** | **1.72E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **2.83E+01** | **1.10E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **2.83E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **1.71E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **5.52E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **1.38E+01** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **1.06E+02** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **3.36E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **2.48E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **2.83E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **2.83E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **1.71E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **5.52E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **1.38E+01** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **1.06E+02** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **3.36E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **2.48E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **2.83E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **1.71E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **5.52E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **1.38E+01** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **1.06E+02** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **3.36E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **2.48E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-43**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-43**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-43**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-43**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 8.33E+01 | 8.67E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 8.33E+01 | 8.67E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-43**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.45E-02 | 0.00E+00 | 0.00E+00 | 4.84E+00 | 0.00E+00 | 5.28E-01 | 0.00E+00 | 3.47E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 2.68E+00 | 0.00E+00 | 0.00E+00 | 5.12E+00 | 0.00E+00 | 7.35E-01 | 0.00E+00 | 5.13E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.29E-01 | 0.00E+00 | 0.00E+00 | 1.85E+00 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.44E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 4.33E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 6.81E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.55E-01 | 0.00E+00 | 0.00E+00 | 2.56E+00 | 0.00E+00 | 9.58E-02 | 0.00E+00 | 6.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.89E-03 | 0.00E+00 | 0.00E+00 | 1.85E-01 | 0.00E+00 | 6.52E-03 | 0.00E+00 | 1.47E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.24E-01 | 0.00E+00 | 0.00E+00 | 5.68E-01 | 0.00E+00 | 2.23E-02 | 0.00E+00 | 8.15E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.45E-02 | 0.00E+00 | 0.00E+00 | 4.84E+00 | 0.00E+00 | 5.28E-01 | 0.00E+00 | 3.47E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.92E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.92E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.66E-01 | 0.00E+00 | 3.55E-01 | 0.00E+00 | 1.29E-02 | 3.55E-01 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 0.00E+00 | 7.33E-03 | 1.44E-02 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 1.76E+00 | 0.00E+00 | 3.75E-01 | 0.00E+00 | 1.80E-02 | 3.75E-01 | 0.00E+00 | 5.12E-02 | 0.00E+00 | 0.00E+00 | 1.64E+00 | 1.45E-02 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.86E-02 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 1.98E-02 | 1.36E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 0.00E+00 | 5.56E-03 | 2.14E-03 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 9.26E-03 | 0.00E+00 | 3.18E-02 | 0.00E+00 | 4.95E-02 | 3.18E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 4.60E-04 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 3.93E-03 | 0.00E+00 | 1.88E-01 | 0.00E+00 | 2.34E-03 | 1.88E-01 | 0.00E+00 | 1.47E-02 | 0.00E+00 | 0.00E+00 | 6.28E-03 | 2.10E-04 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.98E-03 | 0.00E+00 | 1.36E-02 | 0.00E+00 | 1.59E-04 | 1.36E-02 | 0.00E+00 | 4.71E-05 | 0.00E+00 | 0.00E+00 | 6.48E-04 | 1.49E-04 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.08E-03 | 0.00E+00 | 4.17E-02 | 0.00E+00 | 5.46E-04 | 4.17E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 4.95E-04 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 3.06E-01 | 0.00E+00 | 6.94E+00 | 0.00E+00 | 1.08E-01 | 2.96E+00 | 0.00E+00 | 8.18E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 3.23E+00 | 0.00E+00 | 7.33E+00 | 0.00E+00 | 1.50E-01 | 3.13E+00 | 0.00E+00 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 1.08E-01 | 0.00E+00 | 2.65E+00 | 0.00E+00 | 1.65E-01 | 1.13E+00 | 0.00E+00 | 1.05E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 1.71E-02 | 0.00E+00 | 6.21E-01 | 0.00E+00 | 4.13E-01 | 2.65E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 7.23E-03 | 0.00E+00 | 3.68E+00 | 0.00E+00 | 1.95E-02 | 1.57E+00 | 0.00E+00 | 6.62E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 3.65E-03 | 0.00E+00 | 2.65E-01 | 0.00E+00 | 1.33E-03 | 1.13E-01 | 0.00E+00 | 2.12E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 3.83E-03 | 0.00E+00 | 8.15E-01 | 0.00E+00 | 4.55E-03 | 3.48E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-43**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.66E-01 | 0.00E+00 | 4.23E-05 | 6.34E+00 | 3.62E-01 | 6.70E+00 | 6.70E+00 | 4.67E-01 | 1.40E+00 | **1E+01** | **5E+00** | 8E-01 | 3E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.83E+00 | 0.00E+00 | 3.27E-02 | 1.17E+01 | 7.81E+00 | 1.95E+01 | 1.95E+01 | 2.08E+01 | 4.17E+01 | 6E-01 | 3E-01 | 4E-01 | 2E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.88E+00 | 0.00E+00 | 4.86E-03 | 4.54E+00 | 1.57E+00 | 6.11E+00 | 6.12E+00 | 2.66E+00 | 2.80E+00 | **2E+00** | **2E+00** | 6E-01 | 6E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.71E-01 | 0.00E+00 | 3.29E-03 | 2.93E+00 | 1.44E+00 | 4.37E+00 | 4.37E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 2E-01 | 2E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.62E+00 | 0.00E+00 | 1.82E-02 | 6.28E+00 | 8.50E-01 | 7.13E+00 | 7.14E+00 | 1.63E+00 | 3.26E+00 | **4E+00** | **2E+00** | 5E-01 | 3E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 1.16E-04 | 3.06E-01 | 1.48E-01 | 4.55E-01 | 4.55E-01 | 2.27E-02 | 6.80E-02 | **1E+01** | **5E+00** | **7E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.46E-01 | 0.00E+00 | 4.62E-03 | 1.44E+00 | 9.39E-01 | 2.38E+00 | 2.38E+00 | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **3E+00** | **1E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.66E-01 | 0.00E+00 | 4.23E-05 | 6.34E+00 | 3.62E-01 | 6.70E+00 | 6.70E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **5E+01** | **8E+00** | **3E+00** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 9.51E-01 | 0.00E+00 | 1.29E-01 | 5.01E-03 | 8.93E-06 | 1.02E+00 | 9.56E-01 | 1.98E+00 | 1.98E+00 | 4.67E-01 | 1.40E+00 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 0.00E+00 | 2.29E-01 | 0.00E+00 | 7.81E-01 | 3.79E-01 | 6.90E-03 | 3.29E+00 | 6.08E-01 | 3.90E+00 | 3.91E+00 | 2.08E+01 | 4.17E+01 | 2E-01 | 8E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 2.52E-01 | 9.50E-02 | 1.03E-03 | 1.40E+00 | 1.89E-01 | 1.59E+00 | 1.59E+00 | 2.66E+00 | 2.80E+00 | 5E-01 | 5E-01 | 7E-02 | 7E-02 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 6.31E-02 | 4.80E-02 | 6.95E-04 | 1.15E+00 | 2.83E-01 | 1.44E+00 | 1.44E+00 | 7.61E+00 | 7.80E+00 | 2E-01 | 1E-01 | 4E-02 | 4E-02 |
| | **Lead** | 0.00E+00 | 1.29E-02 | 0.00E+00 | 4.84E-01 | 6.35E-02 | 3.84E-03 | 1.21E+00 | 7.64E-02 | 1.28E+00 | 1.29E+00 | 1.63E+00 | 3.26E+00 | 7E-01 | 4E-01 | 5E-02 | 2E-02 |
| | **Mercury** | 0.00E+00 | 1.16E-02 | 0.00E+00 | 1.53E-02 | 4.38E-03 | 2.45E-05 | 1.77E-02 | 1.60E-02 | 3.36E-02 | 3.37E-02 | 2.27E-02 | 6.80E-02 | 8E-01 | 3E-01 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.13E-01 | 7.86E-02 | 9.75E-04 | 5.49E-01 | 1.72E-01 | 7.22E-01 | 7.23E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 5E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 9.51E-01 | 0.00E+00 | 1.29E-01 | 5.01E-03 | 8.93E-06 | 1.02E+00 | 9.56E-01 | 1.98E+00 | 1.98E+00 | 4.33E-02 | 1.30E-01 | **2E+01** | **8E+00** | **2E+01** | **7E+00** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 4.90E-02 | 7.64E-03 | 7.14E-02 | 0.00E+00 | 1.30E-05 | 9.80E-01 | 7.83E-02 | 1.06E+00 | 1.06E+00 | 2.30E-01 | 6.80E-01 | **4E+00** | **1E+00** | 3E-01 | 1E-01 |
| | **Barium** | 0.00E+00 | 1.18E-02 | 7.84E-02 | 4.31E-01 | 0.00E+00 | 1.00E-02 | 3.01E+00 | 1.75E+00 | 4.75E+00 | 4.76E+00 | 5.18E+01 | 1.21E+02 | 6E-02 | 2E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 1.85E-02 | 1.39E-01 | 0.00E+00 | 1.49E-03 | 5.13E-01 | 3.10E-02 | 5.44E-01 | 5.45E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 2E-01 | 1E-02 | 1E-02 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 3.30E-03 | 3.48E-02 | 0.00E+00 | 1.01E-03 | 1.79E-01 | 8.56E-02 | 2.65E-01 | 2.66E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 2E-02 | 1E-02 | 9E-03 |
| | **Lead** | 0.00E+00 | 6.64E-04 | 4.40E-03 | 2.67E-01 | 0.00E+00 | 5.59E-03 | 6.65E-01 | 1.16E-02 | 6.76E-01 | 6.82E-01 | 4.70E+00 | 8.90E+00 | 1E-01 | 7E-02 | 2E-03 | 1E-03 |
| | **Mercury** | 0.00E+00 | 5.97E-04 | 4.52E-04 | 8.47E-03 | 0.00E+00 | 3.57E-05 | 3.78E-02 | 1.85E-03 | 3.97E-02 | 3.97E-02 | 7.50E-02 | 1.50E-01 | 5E-01 | 3E-01 | 2E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 2.50E-03 | 6.25E-02 | 0.00E+00 | 1.42E-03 | 1.57E-01 | 1.91E-02 | 1.77E-01 | 1.78E-01 | 4.16E+00 | 8.31E+00 | 4E-02 | 2E-02 | 5E-03 | 2E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 1.17E-01 | 1.21E-02 | 1.09E-01 | 4.20E-03 | 2.35E-05 | 1.05E+01 | 1.33E-01 | 1.06E+01 | 1.06E+01 | 2.30E-01 | 6.80E-01 | **5E+01** | **2E+01** | 6E-01 | 2E-01 |
| | **Barium** | 0.00E+00 | 2.81E-02 | 1.24E-01 | 6.56E-01 | 3.18E-01 | 1.82E-02 | 1.47E+01 | 4.70E-01 | 1.52E+01 | 1.52E+01 | 5.18E+01 | 1.21E+02 | 3E-01 | 1E-01 | 9E-03 | 4E-03 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 2.94E-02 | 2.12E-01 | 7.98E-02 | 2.70E-03 | 4.38E+00 | 1.21E-01 | 4.50E+00 | 4.50E+00 | 2.40E+00 | 2.82E+00 | **2E+00** | **2E+00** | 5E-02 | 4E-02 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 5.23E-03 | 5.29E-02 | 4.03E-02 | 1.83E-03 | 1.47E+00 | 7.43E-02 | 1.54E+00 | 1.54E+00 | 7.33E+00 | 1.00E+01 | 2E-01 | 1E-01 | 1E-02 | 7E-03 |
| | **Lead** | 0.00E+00 | 1.58E-03 | 6.99E-03 | 4.06E-01 | 5.33E-02 | 1.01E-02 | 5.74E+00 | 6.19E-02 | 5.81E+00 | 5.82E+00 | 4.70E+00 | 8.90E+00 | **1E+00** | 6E-01 | 1E-02 | 7E-03 |
| | **Mercury** | 0.00E+00 | 1.42E-03 | 7.19E-04 | 1.29E-02 | 3.68E-03 | 6.45E-05 | 3.97E-01 | 5.82E-03 | 4.03E-01 | 4.03E-01 | 7.50E-02 | 1.50E-01 | **5E+00** | **3E+00** | 8E-02 | 4E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 3.97E-03 | 9.51E-02 | 6.60E-02 | 2.57E-03 | 1.31E+00 | 8.14E-02 | 1.39E+00 | 1.39E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 2E-01 | 2E-02 | 1E-02 |

**Table E3-43**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Barium** | 9E-01 | 5E-01 | 9E-01 | 5E-01 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Lead** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Mercury** | **2E+01** | **7E+00** | **2E+01** | **7E+00** |
| | **Vanadium** | **7E+00** | **3E+00** | **7E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **2E+02** | **5E+01** | **2E+02** | **5E+01** |
| **Hawk - mid** | **tPCB-med** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Mercury** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 9E-02 | 4E-02 | 9E-02 | 4E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 4E-02 | 3E-02 | 4E-02 | 3E-02 |
| | **Lead** | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Mercury** | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| | **Barium** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Mercury** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| | **Vanadium** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-44**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C3, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.17E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.62E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.50E+00** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.59E+01** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.58E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.17E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **1.62E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **8.50E+00** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **3.59E+01** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **1.58E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Barium** | **1.17E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Chromium** | **1.62E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Cobalt** | **8.50E+00** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Lead** | **3.59E+01** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Vanadium** | **1.58E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 2** | **tPCB-mink** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Barium** | **1.17E+02** | **8.29E+01** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Chromium** | **1.62E+01** | **2.08E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Cobalt** | **8.50E+00** | **1.05E+01** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Lead** | **3.59E+01** | **1.39E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Vanadium** | **1.58E+01** | **1.72E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Raccoon - 1** | **tPCB** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Barium** | **1.17E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Chromium** | **1.62E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Cobalt** | **8.50E+00** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Lead** | **3.59E+01** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Vanadium** | **1.58E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| **Raccoon - 2** | **tPCB** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Barium** | **1.17E+02** | **8.29E+01** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Chromium** | **1.62E+01** | **2.08E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Cobalt** | **8.50E+00** | **1.05E+01** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Lead** | **3.59E+01** | **1.39E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Vanadium** | **1.58E+01** | **1.72E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |

**Table E3-44**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C3, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| Spotted Sandpiper - 1 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| Spotted Sandpiper - 1 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| GBH - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| GBH - high | tPCB-high | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| Mink - 1 | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 2 | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| Raccoon - 2 | tPCB | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Barium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Chromium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Cobalt | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Lead | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Mercury | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Vanadium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table E3-44**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C3, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| **GBH - mid** | **tPCB-med** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **GBH - high** | **tPCB-high** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| **Mink - 1** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Mink - 2** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 1** | **tPCB** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 2** | **tPCB** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |

**Table E3-44**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C3, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | |
|---|---|---|---|---|---|
| | | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **GBH - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **GBH - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **Mink - 1** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Mink - 2** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 1** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 2** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |

**Table E3-44**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C3, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| **GBH - mid** | **tPCB-med** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **GBH - high** | **tPCB-high** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| **Mink - 1** | **tPCB-mink** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Mink - 2** | **tPCB-mink** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Raccoon - 1** | **tPCB** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Raccoon - 2** | **tPCB** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |

**Table E3-44**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C3, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 8.67E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.11E-01 | 9.98E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 6.73E+00 | 8.52E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 6.54E-01 | 1.32E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.16E+00 | 6.49E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 9.86E-01 | 2.11E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.78E-02 | 7.47E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 6.69E-01 | 8.82E-01 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 8.67E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.11E-01 | 9.98E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 8.67E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 8.67E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.27E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.27E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 6.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.90E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.26E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.80E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 8.67E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.27E-01 | 0.00E+00 | 3.01E-01 | 0.00E+00 | 1.09E-02 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.20E+00 | 0.00E+00 | 2.57E-01 | 0.00E+00 | 1.23E-02 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.72E-02 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 1.98E-02 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.71E-03 | 0.00E+00 | 1.96E-02 | 0.00E+00 | 4.95E-02 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.33E-03 | 0.00E+00 | 6.37E-02 | 0.00E+00 | 7.94E-04 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 3.49E-03 | 0.00E+00 | 2.25E-02 | 0.00E+00 | 2.81E-04 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.32E-03 | 0.00E+00 | 2.66E-02 | 0.00E+00 | 3.48E-04 |
| **Raccoon - 2** | **tPCB** | 8.67E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.02E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 5.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.67E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.93E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.58E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-44**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C3, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water |
| Spotted Sandpiper - 1 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.84E-01 | 1.76E-02 | 2.66E-05 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E+00 | 1.33E+00 | 2.06E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.60E-01 | 3.33E-01 | 3.06E-03 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 1.68E-01 | 2.07E-03 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.75E-01 | 2.23E-01 | 1.14E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.47E-02 | 1.54E-02 | 7.31E-05 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E-01 | 2.76E-01 | 2.91E-03 |
| Spotted Sandpiper - 1 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.84E-01 | 1.76E-02 | 2.66E-05 |
| GBH - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 2.06E-02 | 0.00E+00 | 0.00E+00 | 3.70E-03 | 4.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.69E-02 | 0.00E+00 | 3.86E-03 | 7.05E-06 |
| | Barium | 0.00E+00 | 0.00E+00 | 4.34E-02 | 0.00E+00 | 0.00E+00 | 8.29E-01 | 4.05E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.86E-01 | 0.00E+00 | 2.92E-01 | 5.45E-03 |
| | Chromium | 0.00E+00 | 0.00E+00 | 8.53E-03 | 0.00E+00 | 0.00E+00 | 2.81E-03 | 6.01E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E-01 | 0.00E+00 | 7.32E-02 | 8.10E-04 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 0.00E+00 | 3.70E-02 | 5.49E-04 |
| | Lead | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 3.17E-03 | 5.89E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.85E-02 | 0.00E+00 | 4.89E-02 | 3.03E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.03E-04 | 0.00E+00 | 0.00E+00 | 3.27E-04 | 4.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.96E-03 | 0.00E+00 | 3.38E-03 | 1.94E-05 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 5.68E-03 | 1.39E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-02 | 0.00E+00 | 6.06E-02 | 7.70E-04 |
| GBH - high | tPCB-high | 0.00E+00 | 0.00E+00 | 2.06E-02 | 0.00E+00 | 0.00E+00 | 3.70E-03 | 4.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.69E-02 | 0.00E+00 | 3.86E-03 | 7.05E-06 |
| Mink - 1 | tPCB-mink | 0.00E+00 | 0.00E+00 | 2.54E-01 | 0.00E+00 | 0.00E+00 | 9.35E-03 | 0.00E+00 | 0.00E+00 | 1.89E-01 | 0.00E+00 | 1.22E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 2.54E-01 | 0.00E+00 | 0.00E+00 | 9.35E-03 | 0.00E+00 | 0.00E+00 | 1.89E-01 | 0.00E+00 | 1.22E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | Barium | 0.00E+00 | 0.00E+00 | 5.36E-01 | 0.00E+00 | 0.00E+00 | 2.10E+00 | 0.00E+00 | 0.00E+00 | 8.08E-01 | 0.00E+00 | 1.25E+00 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.05E-01 | 0.00E+00 | 0.00E+00 | 7.09E-03 | 0.00E+00 | 0.00E+00 | 1.28E-01 | 0.00E+00 | 2.96E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 5.27E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | Lead | 0.00E+00 | 0.00E+00 | 7.63E-02 | 0.00E+00 | 0.00E+00 | 8.01E-03 | 0.00E+00 | 0.00E+00 | 3.14E-03 | 0.00E+00 | 7.03E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.27E-03 | 0.00E+00 | 0.00E+00 | 8.27E-04 | 0.00E+00 | 0.00E+00 | 1.40E-03 | 0.00E+00 | 7.23E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 1.44E-02 | 0.00E+00 | 0.00E+00 | 2.87E-02 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| Mink - 2 | tPCB-mink | 0.00E+00 | 0.00E+00 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 4.16E-03 | 0.00E+00 | 0.00E+00 | 7.76E-01 | 0.00E+00 | 1.41E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 4.16E-03 | 0.00E+00 | 0.00E+00 | 7.76E-01 | 0.00E+00 | 1.41E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | Barium | 0.00E+00 | 0.00E+00 | 7.31E-02 | 0.00E+00 | 0.00E+00 | 9.31E-01 | 0.00E+00 | 0.00E+00 | 3.31E+00 | 0.00E+00 | 1.44E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.44E-02 | 0.00E+00 | 0.00E+00 | 3.15E-03 | 0.00E+00 | 0.00E+00 | 5.24E-01 | 0.00E+00 | 3.41E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 6.08E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.04E-02 | 0.00E+00 | 0.00E+00 | 3.56E-03 | 0.00E+00 | 0.00E+00 | 1.29E-02 | 0.00E+00 | 8.11E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.73E-04 | 0.00E+00 | 0.00E+00 | 3.67E-04 | 0.00E+00 | 0.00E+00 | 5.72E-03 | 0.00E+00 | 8.34E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 6.38E-03 | 0.00E+00 | 0.00E+00 | 1.17E-01 | 0.00E+00 | 4.61E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| Raccoon - 1 | tPCB | 3.01E-01 | 0.00E+00 | 1.66E-02 | 0.00E+00 | 0.00E+00 | 7.33E-03 | 1.44E-02 | 0.00E+00 | 0.00E+00 | 4.90E-02 | 7.64E-03 | 6.04E-02 | 0.00E+00 | 1.30E-05 |
| | Barium | 2.57E-01 | 0.00E+00 | 3.50E-02 | 0.00E+00 | 0.00E+00 | 1.64E+00 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 1.18E-02 | 7.84E-02 | 2.95E-01 | 0.00E+00 | 1.00E-02 |
| | Chromium | 3.99E-02 | 0.00E+00 | 6.89E-03 | 0.00E+00 | 0.00E+00 | 5.56E-03 | 2.14E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.85E-02 | 4.09E-02 | 0.00E+00 | 1.49E-03 |
| | Cobalt | 1.96E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 4.60E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 3.30E-03 | 2.14E-02 | 0.00E+00 | 1.01E-03 |
| | Lead | 6.37E-02 | 0.00E+00 | 4.99E-03 | 0.00E+00 | 0.00E+00 | 6.28E-03 | 2.10E-04 | 0.00E+00 | 0.00E+00 | 6.64E-04 | 4.40E-03 | 9.05E-02 | 0.00E+00 | 5.59E-03 |
| | Mercury | 2.25E-02 | 0.00E+00 | 8.30E-05 | 0.00E+00 | 0.00E+00 | 6.48E-04 | 1.49E-04 | 0.00E+00 | 0.00E+00 | 5.97E-04 | 4.52E-04 | 1.49E-02 | 0.00E+00 | 3.57E-05 |
| | Vanadium | 2.66E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 4.95E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 2.50E-03 | 3.98E-02 | 0.00E+00 | 1.42E-03 |
| Raccoon - 2 | tPCB | 0.00E+00 | 0.00E+00 | 5.96E-02 | 4.72E-02 | 4.02E-02 | 7.33E-03 | 1.50E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.06E-02 | 0.00E+00 | 2.76E-03 | 1.30E-05 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.26E-01 | 6.09E-02 | 2.31E-01 | 1.64E+00 | 1.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.13E-01 | 0.00E+00 | 2.09E-01 | 1.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 2.47E-02 | 5.91E-03 | 9.21E-02 | 5.56E-03 | 2.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.40E-02 | 0.00E+00 | 5.25E-02 | 1.49E-03 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 7.96E-02 | 1.05E-02 | 6.18E-02 | 6.97E-02 | 4.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.32E-02 | 0.00E+00 | 2.65E-02 | 1.01E-03 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.79E-02 | 8.92E-03 | 5.04E-02 | 6.28E-03 | 2.20E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.76E-02 | 0.00E+00 | 3.51E-02 | 5.59E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 2.98E-04 | 7.72E-04 | 1.08E-03 | 6.48E-04 | 1.56E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-03 | 0.00E+00 | 2.42E-03 | 3.57E-05 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 3.19E-02 | 6.05E-03 | 3.32E-02 | 1.12E-02 | 5.17E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.99E-03 | 0.00E+00 | 4.34E-02 | 1.42E-03 |

**Table E3-44**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C3, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.04E+01 | 1.28E-01 | 1.05E+01 | 1.05E+01 | 4.67E-01 | 1.40E+00 | **2E+01** | **7E+00** | 3E-01 | 9E-02 | **2E+01** | **7E+00** | **2E+01** |
| | **Barium** | 1.04E+01 | 8.06E+00 | 1.85E+01 | 1.85E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 2E-01 | 4E-01 | 2E-01 | 9E-01 | 4E-01 | 9E-01 |
| | **Chromium** | 1.58E+00 | 9.87E-01 | 2.57E+00 | 2.57E+00 | 2.66E+00 | 2.80E+00 | 6E-01 | 6E-01 | 4E-01 | 4E-01 | 1E+00 | 9E-01 | 1E+00 |
| | **Cobalt** | 7.85E-01 | 1.33E+00 | 2.12E+00 | 2.12E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 2.69E+00 | 1.21E+00 | 3.90E+00 | 3.91E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 8E-01 | 7E-01 | 4E-01 | **2E+00** | **1E+00** | **2E+00** |
| | **Mercury** | 8.42E-01 | 4.32E-02 | 8.85E-01 | 8.85E-01 | 2.27E-02 | 6.80E-02 | **4E+01** | **1E+01** | **2E+00** | 6E-01 | **4E+01** | **1E+01** | **4E+01** |
| | **Vanadium** | 1.13E+00 | 9.45E-01 | 2.08E+00 | 2.08E+00 | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **3E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.04E+01 | 1.28E-01 | 1.05E+01 | 1.05E+01 | 4.33E-02 | 1.30E-01 | **2E+02** | **8E+01** | **3E+00** | 1E+00 | **2E+02** | **8E+01** | **2E+02** |
| **GBH - mid** | **tPCB-med** | 2.06E-02 | 4.11E+00 | 4.13E+00 | 4.13E+00 | 4.67E-01 | 1.40E+00 | 4E-02 | 1E-02 | **9E+00** | **3E+00** | **9E+00** | **3E+00** | **9E+00** |
| | **Barium** | 4.34E-02 | 5.86E+00 | 5.90E+00 | 5.91E+00 | 2.08E+01 | 4.17E+01 | 2E-03 | 1E-03 | 3E-01 | 1E-01 | 3E-01 | 1E-01 | 3E-01 |
| | **Chromium** | 8.53E-03 | 8.39E-01 | 8.48E-01 | 8.49E-01 | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 3E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 2.75E-02 | 2.30E-01 | 2.58E-01 | 2.58E-01 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 3E-02 | 3E-02 | 3E-02 | 3E-02 | 3E-02 |
| | **Lead** | 6.17E-03 | 1.50E-01 | 1.56E-01 | 1.59E-01 | 1.63E+00 | 3.26E+00 | 4E-03 | 2E-03 | 9E-02 | 5E-02 | 1E-01 | 5E-02 | 1E-01 |
| | **Mercury** | 1.03E-04 | 4.94E-02 | 4.95E-02 | 4.95E-02 | 2.27E-02 | 6.80E-02 | 5E-03 | 2E-03 | **2E+00** | 7E-01 | **2E+00** | 7E-01 | **2E+00** |
| | **Vanadium** | 1.10E-02 | 2.27E-01 | 2.38E-01 | 2.39E-01 | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 7E-01 | 3E-01 | 7E-01 | 3E-01 | 7E-01 |
| **GBH - high** | **tPCB-high** | 2.06E-02 | 4.11E+00 | 4.13E+00 | 4.13E+00 | 4.33E-02 | 1.30E-01 | 5E-01 | 2E-01 | **9E+01** | **3E+01** | **1E+02** | **3E+01** | **1E+02** |
| **Mink - 1** | **tPCB-mink** | 2.54E-01 | 3.21E-01 | 5.75E-01 | 5.75E-01 | 5.00E-02 | 1.00E-01 | **5E+00** | **3E+00** | **6E+00** | **3E+00** | **1E+01** | **6E+00** | **1E+01** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 2.54E-01 | 3.21E-01 | 5.75E-01 | 5.75E-01 | na | 5.00E-02 | **--** | **5E+00** | **--** | **6E+00** | **--** | **1E+01** | **--** |
| | **Barium** | 5.36E-01 | 4.16E+00 | 4.69E+00 | 4.70E+00 | 5.18E+01 | 1.21E+02 | 1E-02 | 4E-03 | 8E-02 | 3E-02 | 9E-02 | 4E-02 | 9E-02 |
| | **Chromium** | 1.05E-01 | 4.31E-01 | 5.36E-01 | 5.38E-01 | 2.40E+00 | 2.82E+00 | 4E-02 | 4E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 3.40E-01 | 3.42E-01 | 6.82E-01 | 6.84E-01 | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 5E-02 | 3E-02 | 9E-02 | 7E-02 | 9E-02 |
| | **Lead** | 7.63E-02 | 8.15E-02 | 1.58E-01 | 1.65E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 9E-03 | 2E-02 | 9E-03 | 3E-02 | 2E-02 | 4E-02 |
| | **Mercury** | 1.27E-03 | 9.45E-03 | 1.07E-02 | 1.08E-02 | 7.50E-02 | 1.50E-01 | 2E-02 | 8E-03 | 1E-01 | 6E-02 | 1E-01 | 7E-02 | 1E-01 |
| | **Vanadium** | 1.36E-01 | 8.29E-02 | 2.19E-01 | 2.21E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 2E-02 | 1E-02 | 5E-02 | 3E-02 | 5E-02 |
| **Mink - 2** | **tPCB-mink** | 3.47E-02 | 7.94E-01 | 8.29E-01 | 8.29E-01 | 5.00E-02 | 1.00E-01 | 7E-01 | 3E-01 | **2E+01** | **8E+00** | **2E+01** | **8E+00** | **2E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 3.47E-02 | 7.94E-01 | 8.29E-01 | 8.29E-01 | na | 5.00E-02 | **--** | 7E-01 | **--** | **2E+01** | **--** | **2E+01** | **--** |
| | **Barium** | 7.31E-02 | 4.45E+00 | 4.52E+00 | 4.53E+00 | 5.18E+01 | 1.21E+02 | 1E-03 | 6E-04 | 9E-02 | 4E-02 | 9E-02 | 4E-02 | 9E-02 |
| | **Chromium** | 1.44E-02 | 5.64E-01 | 5.78E-01 | 5.80E-01 | 2.40E+00 | 2.82E+00 | 6E-03 | 5E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 4.64E-02 | 8.84E-01 | 9.31E-01 | 9.32E-01 | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 |
| | **Lead** | 1.04E-02 | 2.80E-02 | 3.84E-02 | 4.52E-02 | 4.70E+00 | 8.90E+00 | 2E-03 | 1E-03 | 6E-03 | 3E-03 | 8E-03 | 4E-03 | 1E-02 |
| | **Mercury** | 1.73E-04 | 6.96E-03 | 7.13E-03 | 7.18E-03 | 7.50E-02 | 1.50E-01 | 2E-03 | 1E-03 | 9E-02 | 5E-02 | 1E-01 | 5E-02 | 1E-01 |
| | **Vanadium** | 1.85E-02 | 1.31E-01 | 1.50E-01 | 1.51E-01 | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 |
| **Raccoon - 1** | **tPCB** | 9.16E-01 | 7.83E-02 | 9.95E-01 | 9.95E-01 | 2.30E-01 | 6.80E-01 | **4E+00** | **1E+00** | 3E-01 | 1E-01 | **4E+00** | **1E+00** | **4E+00** |
| | **Barium** | 2.06E+00 | 1.75E+00 | 3.80E+00 | 3.81E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 3E-02 | 1E-02 | 7E-02 | 3E-02 | 7E-02 |
| | **Chromium** | 1.64E-01 | 3.10E-02 | 1.95E-01 | 1.97E-01 | 2.40E+00 | 2.82E+00 | 7E-02 | 6E-02 | 1E-02 | 1E-02 | 8E-02 | 7E-02 | 8E-02 |
| | **Cobalt** | 1.38E-01 | 8.56E-02 | 2.24E-01 | 2.25E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 9E-03 | 3E-02 | 2E-02 | 3E-02 |
| | **Lead** | 2.25E-01 | 1.16E-02 | 2.37E-01 | 2.42E-01 | 4.70E+00 | 8.90E+00 | 5E-02 | 3E-02 | 2E-03 | 1E-03 | 5E-02 | 3E-02 | 5E-02 |
| | **Mercury** | 6.38E-02 | 1.85E-03 | 6.56E-02 | 6.57E-02 | 7.50E-02 | 1.50E-01 | 9E-01 | 4E-01 | 2E-02 | 1E-02 | 9E-01 | 4E-01 | 9E-01 |
| | **Vanadium** | 1.04E-01 | 1.91E-02 | 1.23E-01 | 1.24E-01 | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 5E-03 | 2E-03 | 3E-02 | 1E-02 | 3E-02 |
| **Raccoon - 2** | **tPCB** | 5.96E-02 | 2.81E-01 | 3.41E-01 | 3.41E-01 | 2.30E-01 | 6.80E-01 | 3E-01 | 9E-02 | **1E+00** | 4E-01 | **1E+00** | 5E-01 | **1E+00** |
| | **Barium** | 1.26E-01 | 3.16E+00 | 3.29E+00 | 3.30E+00 | 5.18E+01 | 1.21E+02 | 2E-03 | 1E-03 | 6E-02 | 3E-02 | 6E-02 | 3E-02 | 6E-02 |
| | **Chromium** | 2.47E-02 | 2.79E-01 | 3.04E-01 | 3.05E-01 | 2.40E+00 | 2.82E+00 | 1E-02 | 9E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 7.96E-02 | 3.45E-01 | 4.25E-01 | 4.26E-01 | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 5E-02 | 3E-02 | 6E-02 | 4E-02 | 6E-02 |
| | **Lead** | 1.79E-02 | 1.53E-01 | 1.70E-01 | 1.76E-01 | 4.70E+00 | 8.90E+00 | 4E-03 | 2E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 |
| | **Mercury** | 2.98E-04 | 8.67E-03 | 8.97E-03 | 9.01E-03 | 7.50E-02 | 1.50E-01 | 4E-03 | 2E-03 | 1E-01 | 6E-02 | 1E-01 | 6E-02 | 1E-01 |
| | **Vanadium** | 3.19E-02 | 1.35E-01 | 1.67E-01 | 1.68E-01 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 |

**Table E3-44**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C3, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients |
|---|---|---|
| | | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **7E+00** |
| | **Barium** | 4E-01 |
| | **Chromium** | 9E-01 |
| | **Cobalt** | 3E-01 |
| | **Lead** | **1E+00** |
| | **Mercury** | **1E+01** |
| | **Vanadium** | **3E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **8E+01** |
| **GBH - mid** | **tPCB-med** | **3E+00** |
| | **Barium** | 1E-01 |
| | **Chromium** | 3E-01 |
| | **Cobalt** | 3E-02 |
| | **Lead** | 5E-02 |
| | **Mercury** | 7E-01 |
| | **Vanadium** | 3E-01 |
| **GBH - high** | **tPCB-high** | **3E+01** |
| **Mink - 1** | **tPCB-mink** | **6E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **1E+01** |
| | **Barium** | 4E-02 |
| | **Chromium** | 2E-01 |
| | **Cobalt** | 7E-02 |
| | **Lead** | 2E-02 |
| | **Mercury** | 7E-02 |
| | **Vanadium** | 3E-02 |
| **Mink - 2** | **tPCB-mink** | **8E+00** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2E+01** |
| | **Barium** | 4E-02 |
| | **Chromium** | 2E-01 |
| | **Cobalt** | 9E-02 |
| | **Lead** | 5E-03 |
| | **Mercury** | 5E-02 |
| | **Vanadium** | 2E-02 |
| **Raccoon - 1** | **tPCB** | **1E+00** |
| | **Barium** | 3E-02 |
| | **Chromium** | 7E-02 |
| | **Cobalt** | 2E-02 |
| | **Lead** | 3E-02 |
| | **Mercury** | 4E-01 |
| | **Vanadium** | 1E-02 |
| **Raccoon - 2** | **tPCB** | 5E-01 |
| | **Barium** | 3E-02 |
| | **Chromium** | 1E-01 |
| | **Cobalt** | 4E-02 |
| | **Lead** | 2E-02 |
| | **Mercury** | 6E-02 |
| | **Vanadium** | 2E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-45**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C3**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-45**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C3**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians |
| **Tree Swallow - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Tree Swallow - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 1 - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 2 - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Osprey - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Osprey - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Bat** | **tPCB** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Otter** | **tPCB-mink** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |

**Table E3-45**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C3**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Body Weight | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water |
| **Tree Swallow - mid** | **tPCB-med** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 5.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| | **Barium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 2.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 |
| | **Chromium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 |
| | **Cobalt** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 6.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 |
| | **Lead** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 |
| | **Mercury** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 7.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 |
| | **Vanadium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 |
| **Tree Swallow - high** | **tPCB-high** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 5.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.51E-02 | 2.66E-05 |
| | **Barium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-02 |
| | **Chromium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.67E-01 | 3.06E-03 |
| | **Cobalt** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.36E-01 | 2.07E-03 |
| | **Lead** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.45E-01 | 1.14E-02 |
| | **Mercury** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.07E-02 | 0.00E+00 | 2.07E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.07E-02 | 7.31E-05 |
| | **Vanadium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.51E-01 | 2.91E-03 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.51E-02 | 2.66E-05 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E+00 | 0.00E+00 | 0.00E+00 | 3.45E-03 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E+00 | 0.00E+00 | 0.00E+00 | 2.61E-01 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 0.00E+00 | 0.00E+00 | 6.56E-02 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 3.31E-02 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 4.38E-02 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.87E-02 | 0.00E+00 | 0.00E+00 | 3.02E-03 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 5.42E-02 | 1.88E-03 |
| **Kingfisher - 1 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E+00 | 0.00E+00 | 0.00E+00 | 3.45E-03 | 1.72E-05 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-01 | 0.00E+00 | 0.00E+00 | 2.84E+00 | 0.00E+00 | 3.03E-01 | 3.45E-03 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E+00 | 0.00E+00 | 0.00E+00 | 3.95E+00 | 0.00E+00 | 3.47E-01 | 2.61E-01 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.33E+00 | 0.00E+00 | 1.42E-01 | 6.56E-02 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.23E-02 | 3.31E-02 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-02 | 0.00E+00 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 3.25E-02 | 4.38E-02 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.69E-03 | 0.00E+00 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 8.12E-03 | 3.02E-03 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 1.28E-02 | 5.42E-02 | 1.88E-03 |
| **Kingfisher - 2 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-01 | 0.00E+00 | 0.00E+00 | 2.84E+00 | 0.00E+00 | 3.03E-01 | 3.45E-03 | 1.72E-05 |
| **Osprey - mid** | **tPCB-med** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.54E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| | **Barium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 |
| | **Chromium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 |
| | **Cobalt** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 |
| | **Lead** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 |
| | **Mercury** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.20E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 |
| | **Vanadium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 |
| **Osprey - high** | **tPCB-high** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.54E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| **Bat** | **tPCB** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 4.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 |
| | **Barium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 |
| | **Chromium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 |
| | **Cobalt** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 5.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 |
| | **Lead** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 |
| | **Mercury** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 5.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 |
| | **Vanadium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 |
| **Otter** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-01 | 8.54E-01 | 2.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-01 | 8.54E-01 | 2.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| | **Barium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 1.17E-01 | 3.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 |
| | **Chromium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-02 | 1.46E-02 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 |
| | **Cobalt** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E-03 | 3.49E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 |
| | **Lead** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.15E-03 | 1.64E-03 | 2.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 |
| | **Mercury** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 1.13E-02 | 1.90E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 |
| | **Vanadium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-02 | 1.14E-03 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 |

**Table E3-45**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C3**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 5.42E+00 | 5.42E+00 | 4.67E-01 | 1.40E+00 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 2.72E+00 | 2.75E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 3.21E+00 | 3.21E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 6.82E-02 | 7.07E-02 | 7.61E+00 | 7.80E+00 | 9E-03 | 9E-03 | 9E-03 | 9E-03 |
| | **Lead** | 1.62E-01 | 1.76E-01 | 1.63E+00 | 3.26E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | 7.70E-02 | 7.71E-02 | 2.27E-02 | 6.80E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 1.40E-01 | 1.44E-01 | 3.44E-01 | 7.00E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | 5.42E+00 | 5.42E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 5.07E-01 | 5.07E-01 | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 1.33E+01 | 1.34E+01 | 2.08E+01 | 4.17E+01 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Chromium** | 1.36E+00 | 1.36E+00 | 2.66E+00 | 2.80E+00 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Cobalt** | 1.13E+00 | 1.13E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1.51E+00 | 1.53E+00 | 1.63E+00 | 3.26E+00 | 9E-01 | 5E-01 | 9E-01 | 5E-01 |
| | **Mercury** | 7.21E-02 | 7.21E-02 | 2.27E-02 | 6.80E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 1.01E+00 | 1.01E+00 | 3.44E-01 | 7.00E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 5.07E-01 | 5.07E-01 | 4.33E-02 | 1.30E-01 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | 3.75E+00 | 3.75E+00 | 4.67E-01 | 1.40E+00 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 5.45E+00 | 5.47E+00 | 2.08E+01 | 4.17E+01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 1.82E+00 | 1.82E+00 | 2.66E+00 | 2.80E+00 | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Cobalt** | 3.08E+00 | 3.08E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 3.70E-01 | 3.77E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | 3.17E-02 | 3.18E-02 | 2.27E-02 | 6.80E-02 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | 2.41E-01 | 2.43E-01 | 3.44E-01 | 7.00E-01 | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 3.75E+00 | 3.75E+00 | 4.33E-02 | 1.30E-01 | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | 3.26E+00 | 3.26E+00 | 4.67E-01 | 1.40E+00 | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Barium** | 1.05E+01 | 1.05E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Chromium** | 1.58E+00 | 1.58E+00 | 2.66E+00 | 2.80E+00 | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 2.96E+00 | 2.96E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 4.22E-01 | 4.30E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 3.86E-02 | 3.87E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Vanadium** | 2.51E-01 | 2.53E-01 | 3.44E-01 | 7.00E-01 | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 3.26E+00 | 3.26E+00 | 4.33E-02 | 1.30E-01 | **8E+01** | **3E+01** | **8E+01** | **3E+01** |
| **Osprey - mid** | **tPCB-med** | 3.54E+00 | 3.54E+00 | 4.67E-01 | 1.40E+00 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 1.04E+00 | 1.05E+00 | 2.08E+01 | 4.17E+01 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Chromium** | 3.22E-01 | 3.23E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 3.21E-02 | 3.28E-02 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 4E-03 | 4E-03 |
| | **Lead** | 3.86E-02 | 4.21E-02 | 1.63E+00 | 3.26E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 5.20E-02 | 5.20E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | 8.39E-02 | 8.48E-02 | 3.44E-01 | 7.00E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | 3.54E+00 | 3.54E+00 | 4.33E-02 | 1.30E-01 | **8E+01** | **3E+01** | **8E+01** | **3E+01** |
| **Bat** | **tPCB** | 4.00E+00 | 4.00E+00 | 2.30E-01 | 6.80E-01 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 2.01E+00 | 2.03E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.37E+00 | 2.37E+00 | 2.40E+00 | 2.82E+00 | 1E+00 | 8E-01 | 1E+00 | 8E-01 |
| | **Cobalt** | 5.03E-02 | 5.23E-02 | 7.33E+00 | 1.00E+01 | 7E-03 | 5E-03 | 7E-03 | 5E-03 |
| | **Lead** | 1.20E-01 | 1.30E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 5.69E-02 | 5.69E-02 | 7.50E-02 | 1.50E-01 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Vanadium** | 1.03E-01 | 1.06E-01 | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | 1.94E+00 | 1.94E+00 | 5.00E-02 | 1.00E-01 | **4E+01** | **2E+01** | **4E+01** | **2E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | 1.94E+00 | 1.94E+00 | na | 5.00E-02 | **--** | **4E+01** | **--** | **4E+01** |
| | **Barium** | 7.09E-01 | 7.19E-01 | 5.18E+01 | 1.21E+02 | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 2.07E-01 | 2.08E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Cobalt** | 2.13E-01 | 2.14E-01 | 7.33E+00 | 1.00E+01 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 3.24E-02 | 3.79E-02 | 4.70E+00 | 8.90E+00 | 7E-03 | 4E-03 | 8E-03 | 4E-03 |
| | **Mercury** | 2.55E-02 | 2.55E-02 | 7.50E-02 | 1.50E-01 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 3.34E-02 | 3.48E-02 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 8E-03 | 4E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-46**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **1.36E+01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.31E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **1.36E+01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Blue Jay - mid** | **tPCB-med** | **1.36E+01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.31E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **1.36E+01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.36E+01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.31E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.36E+01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Shrew - 1** | **tPCB** | **1.36E+01** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.31E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **1.36E+01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.31E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **1.36E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.31E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **1.36E+01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.31E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **1.36E+01** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.16E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **1.79E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.31E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.96E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-46**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.66E-01 | 1.88E-05 | 3.02E-01 | 3.02E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.21E-02 | 5.16E-05 | 7.06E-02 | 7.06E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.51E-01 | 2.16E-03 | 6.90E-01 | 6.92E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.46E-01 | 8.08E-03 | 8.61E-01 | 8.69E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.85E-01 | 2.05E-03 | 4.02E-01 | 4.04E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.66E-01 | 1.88E-05 | 3.02E-01 | 3.02E-01 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 2.90E-01 | 2.04E-05 | 1.08E+00 | 1.08E+00 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 6.34E-04 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 6.77E-02 | 5.59E-05 | 1.69E-01 | 1.69E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 3.83E-01 | 2.34E-03 | 1.12E+00 | 1.12E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 9.23E-01 | 8.75E-03 | 2.89E+00 | 2.89E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 4.20E-01 | 2.22E-03 | 5.96E-01 | 5.98E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 2.90E-01 | 2.04E-05 | 1.08E+00 | 1.08E+00 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 4.62E-01 | 4.23E-05 | 5.54E+00 | 5.54E+00 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 4.13E-03 | 2.04E-01 | 4.22E-01 | 0.00E+00 | 1.08E-01 | 1.16E-04 | 7.39E-01 | 7.39E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 6.11E-01 | 4.86E-03 | 3.65E+00 | 3.66E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 1.47E+00 | 1.82E-02 | 1.45E+01 | 1.45E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 6.69E-01 | 4.62E-03 | 1.75E+00 | 1.75E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 4.62E-01 | 4.23E-05 | 5.54E+00 | 5.54E+00 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.94E-03 | 3.13E-03 | 2.14E+00 | 1.47E+00 | 0.00E+00 | 5.20E-02 | 2.35E-05 | 3.67E+00 | 3.67E+00 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 1.23E-03 | 2.64E-01 | 1.82E-01 | 0.00E+00 | 1.21E-02 | 6.45E-05 | 4.60E-01 | 4.60E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 6.86E-02 | 2.70E-03 | 1.90E+00 | 1.90E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 1.65E-01 | 1.01E-02 | 9.42E+00 | 9.43E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 7.52E-02 | 2.57E-03 | 8.36E-01 | 8.38E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.77E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.97E-03 | 1.03E-05 | 7.74E-03 | 7.75E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.27E-04 | 2.84E-05 | 1.80E-03 | 1.83E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.25E-03 | 1.19E-03 | 4.04E-02 | 4.16E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-02 | 4.44E-03 | 1.41E-02 | 1.86E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.74E-03 | 1.13E-03 | 7.53E-03 | 8.66E-03 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.77E-01 | 3.46E-02 | 1.72E-05 | 4.12E-01 | 4.12E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-03 | 8.08E-03 | 4.73E-05 | 1.09E-02 | 1.09E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 4.57E-02 | 1.98E-03 | 3.24E-01 | 3.26E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 1.10E-01 | 7.40E-03 | 4.25E-01 | 4.33E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 5.00E-02 | 1.88E-03 | 4.21E-01 | 4.23E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.65E-03 | 0.00E+00 | 6.84E-02 | 0.00E+00 | 1.90E-01 | 1.44E-02 | 1.33E-05 | 2.75E-01 | 2.75E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 8.46E-03 | 0.00E+00 | 1.40E-03 | 3.35E-03 | 3.66E-05 | 1.36E-02 | 1.36E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 1.40E-01 | 1.90E-02 | 1.53E-03 | 2.04E-01 | 2.06E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 1.59E-01 | 4.57E-02 | 5.72E-03 | 3.81E-01 | 3.86E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 1.87E-01 | 2.08E-02 | 1.45E-03 | 2.23E-01 | 2.24E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.87E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-01 | 1.44E-02 | 1.33E-05 | 2.44E-01 | 2.44E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-03 | 3.35E-03 | 3.66E-05 | 5.15E-03 | 5.19E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 1.90E-02 | 1.53E-03 | 1.92E-01 | 1.94E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 4.57E-02 | 5.72E-03 | 2.37E-01 | 2.43E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.08E-02 | 1.45E-03 | 2.46E-01 | 2.47E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-46**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Mercury** | **3E+00** | 1E+00 | **3E+00** | 1E+00 |
| | **Chromium** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Lead** | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **Mourning Dove - high** | **tPCB-high** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| **Blue Jay - mid** | **tPCB-med** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Chromium** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Vanadium** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| **Blue Jay - high** | **tPCB-high** | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Mercury** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Vanadium** | **5E+00** | **2E+00** | **5E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Shrew - 1** | **tPCB** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Mercury** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Chromium** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 3E-03 | 2E-03 | 4E-03 | 2E-03 |
| | **Vanadium** | 2E-03 | 9E-04 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 7E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-47**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **2.83E+01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.06E+02** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **2.83E+01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Blue Jay - mid** | **tPCB-med** | **2.83E+01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.06E+02** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **2.83E+01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **2.83E+01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.06E+02** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **2.83E+01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Shrew - 1** | **tPCB** | **2.83E+01** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.06E+02** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **2.83E+01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.06E+02** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **2.83E+01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.06E+02** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **2.83E+01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.06E+02** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **2.83E+01** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **3.36E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **5.52E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.06E+02** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.48E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-47**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.55E-01 | 1.88E-05 | 5.92E-01 | 5.92E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.59E-02 | 5.16E-05 | 7.43E-02 | 7.44E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E+00 | 2.16E-03 | 1.42E+00 | 1.42E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.08E+00 | 8.08E-03 | 2.10E+00 | 2.10E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.87E-01 | 2.05E-03 | 5.04E-01 | 5.06E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.55E-01 | 1.88E-05 | 5.92E-01 | 5.92E-01 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 0.00E+00 | 6.06E-01 | 2.04E-05 | 1.40E+00 | 1.40E+00 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 6.34E-04 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 0.00E+00 | 7.19E-02 | 5.59E-05 | 1.74E-01 | 1.74E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 1.18E+00 | 2.34E-03 | 1.92E+00 | 1.92E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 0.00E+00 | 2.27E+00 | 8.75E-03 | 4.23E+00 | 4.24E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 5.31E-01 | 2.22E-03 | 7.07E-01 | 7.10E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 0.00E+00 | 6.06E-01 | 2.04E-05 | 1.40E+00 | 1.40E+00 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 9.66E-01 | 4.23E-05 | 6.04E+00 | 6.04E+00 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 4.13E-03 | 2.04E-01 | 4.22E-01 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 1.16E-04 | 7.46E-01 | 7.46E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 1.88E+00 | 4.86E-03 | 4.92E+00 | 4.93E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 3.62E+00 | 1.82E-02 | 1.66E+01 | 1.66E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 8.46E-01 | 4.62E-03 | 1.93E+00 | 1.93E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 9.66E-01 | 4.23E-05 | 6.04E+00 | 6.04E+00 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.94E-03 | 3.13E-03 | 2.14E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 1.09E-01 | 2.35E-05 | 3.72E+00 | 3.72E+00 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 1.23E-03 | 2.64E-01 | 1.82E-01 | 0.00E+00 | 0.00E+00 | 1.29E-02 | 6.45E-05 | 4.61E-01 | 4.61E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 0.00E+00 | 2.12E-01 | 2.70E-03 | 2.04E+00 | 2.04E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 0.00E+00 | 4.06E-01 | 1.01E-02 | 9.66E+00 | 9.67E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 0.00E+00 | 9.51E-02 | 2.57E-03 | 8.56E-01 | 8.58E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.77E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.29E-03 | 1.03E-05 | 1.21E-02 | 1.21E-02 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-04 | 2.84E-05 | 1.86E-03 | 1.89E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E-02 | 1.19E-03 | 5.13E-02 | 5.25E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.11E-02 | 4.44E-03 | 3.26E-02 | 3.70E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.27E-03 | 1.13E-03 | 9.06E-03 | 1.02E-02 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.77E-01 | 7.22E-02 | 1.72E-05 | 4.50E-01 | 4.50E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-03 | 8.57E-03 | 4.73E-05 | 1.13E-02 | 1.14E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 1.41E-01 | 1.98E-03 | 4.19E-01 | 4.21E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 2.71E-01 | 7.40E-03 | 5.86E-01 | 5.93E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 6.33E-02 | 1.88E-03 | 4.34E-01 | 4.36E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.65E-03 | 0.00E+00 | 6.84E-02 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.33E-05 | 2.90E-01 | 2.90E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 8.46E-03 | 0.00E+00 | 0.00E+00 | 1.40E-03 | 3.56E-03 | 3.66E-05 | 1.38E-02 | 1.38E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.85E-02 | 1.53E-03 | 2.44E-01 | 2.45E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 1.12E-01 | 5.72E-03 | 4.47E-01 | 4.53E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 2.63E-02 | 1.45E-03 | 2.28E-01 | 2.30E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.87E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-01 | 3.00E-02 | 1.33E-05 | 2.59E-01 | 2.59E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-03 | 3.56E-03 | 3.66E-05 | 5.36E-03 | 5.39E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 5.85E-02 | 1.53E-03 | 2.32E-01 | 2.33E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 1.12E-01 | 5.72E-03 | 3.04E-01 | 3.09E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.63E-02 | 1.45E-03 | 2.51E-01 | 2.53E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-47**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Chromium** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Vanadium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Blue Jay - mid** | **tPCB-med** | **3E+00** | 1E+00 | **3E+00** | 1E+00 |
| | **Mercury** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Chromium** | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Lead** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Blue Jay - high** | **tPCB-high** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Mercury** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Lead** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+02** | **5E+01** | **1E+02** | **5E+01** |
| **Shrew - 1** | **tPCB** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Mercury** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Chromium** | 9E-01 | 7E-01 | 9E-01 | 7E-01 |
| | **Lead** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Mercury** | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 7E-03 | 4E-03 | 8E-03 | 4E-03 |
| | **Vanadium** | 2E-03 | 1E-03 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Vanadium** | 5E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 7E-02 | 4E-02 | 7E-02 | 4E-02 |
| | **Chromium** | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Lead** | 6E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-48**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.36E+01** | **1.10E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **8.29E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.79E+01** | **2.08E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.06E+01** | **1.05E+01** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **4.31E+01** | **1.39E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.16E+00** | **9.59E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.96E+01** | **1.72E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.36E+01** | **1.10E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.36E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **1.79E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **1.06E+01** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **4.31E+01** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **3.16E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **1.96E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.36E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.36E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **1.79E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **1.06E+01** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **4.31E+01** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **3.16E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **1.96E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **1.36E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **1.79E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **1.06E+01** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **4.31E+01** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **3.16E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **1.96E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-48**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Measured Tissue (mg/kg dry weight) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |

**Table E3-48**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 |
| | **Mercury** | 5.58E+00 | 3.21E-01 | 3.77E-02 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 2.00E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 |
| **Hawk - mid** | **tPCB-med** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 |
| | **Mercury** | 5.58E+00 | 3.21E-01 | 3.77E-02 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.10E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 |
| **Hawk - high** | **tPCB-high** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 |
| **Raccoon - 1** | **tPCB** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 |
| | **Mercury** | 5.58E+00 | 3.21E-01 | 3.77E-02 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 |
| **Shrew - 2** | **tPCB** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.70E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 |
| | **Mercury** | 5.58E+00 | 3.21E-01 | 3.77E-02 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.70E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 |

**Table E3-48**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.88E-03 | 0.00E+00 | 0.00E+00 | 2.04E-01 | 0.00E+00 | 4.13E-03 | 0.00E+00 | 4.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 3.03E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 2.58E-04 | 1.21E-01 | 0.00E+00 | 9.04E-03 | 0.00E+00 | 0.00E+00 | 1.33E-02 |
| | **Barium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 |
| | **Chromium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| | **Cobalt** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 |
| | **Lead** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 |
| | **Mercury** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 1.50E-02 | 0.00E+00 | 1.01E-04 | 1.50E-02 | 0.00E+00 | 6.65E-05 | 0.00E+00 | 0.00E+00 | 6.63E-04 |
| | **Vanadium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| **Shrew - 2** | **tPCB** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.58E-03 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 2.15E-03 | 1.01E+00 | 0.00E+00 | 4.06E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 1.30E-03 | 0.00E+00 | 2.93E-01 | 0.00E+00 | 8.43E-04 | 1.25E-01 | 0.00E+00 | 2.99E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-48**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.62E-01 | 0.00E+00 | 4.23E-05 | 2.12E+00 | 3.43E+00 | 5.56E+00 | 5.56E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.67E+00 | 0.00E+00 | 3.27E-02 | 1.40E+01 | 1.88E+01 | 3.28E+01 | 3.29E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.11E-01 | 0.00E+00 | 4.86E-03 | 2.13E+00 | 1.54E+00 | 3.67E+00 | 3.67E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.62E-01 | 0.00E+00 | 3.29E-03 | 2.59E+00 | 1.19E+00 | 3.78E+00 | 3.79E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 1.82E-02 | 5.73E+00 | 8.90E+00 | 1.46E+01 | 1.46E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-01 | 0.00E+00 | 1.16E-04 | 3.16E-01 | 4.24E-01 | 7.40E-01 | 7.40E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.69E-01 | 0.00E+00 | 4.62E-03 | 1.04E+00 | 7.53E-01 | 1.79E+00 | 1.79E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.62E-01 | 0.00E+00 | 4.23E-05 | 2.12E+00 | 3.43E+00 | 5.56E+00 | 5.56E+00 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E+00 | 0.00E+00 | 6.19E-02 | 5.01E-03 | 8.93E-06 | 5.05E-01 | 1.74E+00 | 2.25E+00 | 2.25E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 6.26E-01 | 3.79E-01 | 6.90E-03 | 3.66E+00 | 4.82E-01 | 4.14E+00 | 4.14E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 8.18E-02 | 9.50E-02 | 1.03E-03 | 4.09E-01 | 1.89E-01 | 5.98E-01 | 5.99E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00 | 4.84E-02 | 4.80E-02 | 6.95E-04 | 1.14E+00 | 2.83E-01 | 1.42E+00 | 1.42E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.98E-03 | 0.00E+00 | 1.97E-01 | 6.35E-02 | 3.84E-03 | 5.67E-01 | 7.15E-02 | 6.39E-01 | 6.43E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 1.45E-02 | 4.38E-03 | 2.45E-05 | 1.77E-02 | 1.35E-02 | 3.12E-02 | 3.12E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 8.96E-02 | 7.86E-02 | 9.75E-04 | 5.25E-01 | 1.72E-01 | 6.98E-01 | 6.99E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E+00 | 0.00E+00 | 6.19E-02 | 5.01E-03 | 8.93E-06 | 5.05E-01 | 1.74E+00 | 2.25E+00 | 2.25E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 2.96E-02 | 0.00E+00 | 0.00E+00 | 8.93E-02 | 3.09E-02 | 3.42E-02 | 0.00E+00 | 1.30E-05 | 2.89E-01 | 1.63E-01 | 4.52E-01 | 4.52E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 3.45E-01 | 0.00E+00 | 1.00E-02 | 4.62E+00 | 7.44E-01 | 5.36E+00 | 5.37E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 4.51E-02 | 0.00E+00 | 1.49E-03 | 2.04E-01 | 2.69E-02 | 2.31E-01 | 2.33E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.67E-02 | 0.00E+00 | 1.01E-03 | 1.34E-01 | 8.34E-02 | 2.17E-01 | 2.18E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 1.09E-01 | 0.00E+00 | 5.59E-03 | 7.39E-01 | 1.55E-02 | 7.54E-01 | 7.60E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 4.34E-04 | 0.00E+00 | 0.00E+00 | 4.69E-04 | 8.30E-04 | 7.98E-03 | 0.00E+00 | 3.57E-05 | 3.88E-02 | 2.40E-03 | 4.12E-02 | 4.12E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 4.94E-02 | 0.00E+00 | 1.42E-03 | 1.11E-01 | 1.17E-02 | 1.22E-01 | 1.24E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-01 | 4.91E-02 | 5.20E-02 | 4.20E-03 | 2.35E-05 | 3.48E+00 | 2.66E-01 | 3.74E+00 | 3.74E+00 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-02 | 5.62E-02 | 5.25E-01 | 3.18E-01 | 1.82E-02 | 2.36E+01 | 3.87E-01 | 2.40E+01 | 2.40E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.31E-02 | 6.86E-02 | 7.98E-02 | 2.70E-03 | 1.77E+00 | 1.14E-01 | 1.88E+00 | 1.89E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 1.99E-03 | 4.06E-02 | 4.03E-02 | 1.83E-03 | 9.87E-01 | 7.10E-02 | 1.06E+00 | 1.06E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-04 | 5.27E-03 | 1.65E-01 | 5.33E-02 | 1.01E-02 | 8.86E+00 | 5.95E-02 | 8.92E+00 | 8.93E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-03 | 1.32E-03 | 1.21E-02 | 3.68E-03 | 6.45E-05 | 4.32E-01 | 6.12E-03 | 4.38E-01 | 4.38E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.07E-03 | 7.52E-02 | 6.60E-02 | 2.57E-03 | 8.26E-01 | 7.95E-02 | 9.06E-01 | 9.08E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-48**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **5E+00** | **2E+00** | **7E+00** | **2E+00** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 7E-01 | 3E-01 | 9E-01 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 8E-01 | 8E-01 | 6E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **4E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Mercury** | **1E+01** | **5E+00** | **2E+01** | **6E+00** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Vanadium** | **3E+00** | **1E+00** | **2E+00** | **1E+00** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **5E+01** | **2E+01** | **8E+01** | **3E+01** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Hawk - mid** | **tPCB-med** | **1E+00** | 4E-01 | **4E+00** | **1E+00** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 2E-01 | 9E-02 | 2E-02 | 1E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 2E-01 | 1E-01 | 7E-02 | 7E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 4E-02 | 4E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 2E-01 | 4E-02 | 2E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | 8E-01 | 3E-01 | 6E-01 | 2E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | 5E-01 | 2E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **1E+01** | **4E+00** | **4E+01** | **1E+01** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | **1E+00** | 4E-01 | 7E-01 | 2E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 9E-02 | 7E-02 | 1E-02 | 1E-02 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 2E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 9E-02 |
| | **Mercury** | 5E-01 | 3E-01 | 3E-02 | 2E-02 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Shrew - 2** | **tPCB** | **2E+01** | **5E+00** | **1E+00** | 4E-01 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 5E-01 | 2E-01 | 7E-03 | 3E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 5E-02 | 4E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 1E-02 | 7E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 1E-02 | 7E-03 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **6E+00** | **3E+00** | 8E-02 | 4E-02 | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-02 | 1E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-49**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **2.83E+01** | **1.10E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.71E+02** | **8.29E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.52E+01** | **2.08E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.38E+01** | **1.05E+01** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.06E+02** | **1.39E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.36E+00** | **9.59E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.48E+01** | **1.72E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **2.83E+01** | **1.10E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **2.83E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.71E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.52E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.38E+01** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.06E+02** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.36E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.48E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **2.83E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **2.83E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **1.71E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **5.52E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **1.38E+01** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **1.06E+02** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **3.36E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **2.48E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Shrew - 2** | **tPCB** | **2.83E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.71E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.52E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.38E+01** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.06E+02** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.36E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.48E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-49**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |

**Table E3-49**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-49**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.88E-03 | 0.00E+00 | 0.00E+00 | 2.04E-01 | 0.00E+00 | 4.13E-03 | 0.00E+00 | 4.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 3.03E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 2.58E-04 | 1.21E-01 | 0.00E+00 | 9.04E-03 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 2.96E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 7.06E-04 | 0.00E+00 | 1.50E-02 | 0.00E+00 | 1.01E-04 | 1.50E-02 | 0.00E+00 | 6.65E-05 | 0.00E+00 | 0.00E+00 | 6.63E-04 | 4.34E-04 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 5.58E-03 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 2.15E-03 | 1.01E+00 | 0.00E+00 | 4.06E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-03 | 0.00E+00 | 2.93E-01 | 0.00E+00 | 8.43E-04 | 1.25E-01 | 0.00E+00 | 2.99E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-49**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 9.66E-01 | 0.00E+00 | 4.23E-05 | 2.63E+00 | 3.43E+00 | 6.06E+00 | 6.06E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 5.83E+00 | 0.00E+00 | 3.27E-02 | 1.52E+01 | 1.88E+01 | 3.40E+01 | 3.40E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.88E+00 | 0.00E+00 | 4.86E-03 | 3.40E+00 | 1.54E+00 | 4.94E+00 | 4.94E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 4.71E-01 | 0.00E+00 | 3.29E-03 | 2.70E+00 | 1.19E+00 | 3.89E+00 | 3.90E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 3.62E+00 | 0.00E+00 | 1.82E-02 | 7.87E+00 | 8.90E+00 | 1.68E+01 | 1.68E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 1.16E-04 | 3.23E-01 | 4.24E-01 | 7.47E-01 | 7.47E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 8.46E-01 | 0.00E+00 | 4.62E-03 | 1.21E+00 | 7.53E-01 | 1.97E+00 | 1.97E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 9.66E-01 | 0.00E+00 | 4.23E-05 | 2.63E+00 | 3.43E+00 | 6.06E+00 | 6.06E+00 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 1.74E+00 | 0.00E+00 | 1.29E-01 | 5.01E-03 | 8.93E-06 | 5.73E-01 | 1.74E+00 | 2.31E+00 | 2.31E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 1.03E-01 | 0.00E+00 | 7.81E-01 | 3.79E-01 | 6.90E-03 | 3.81E+00 | 4.82E-01 | 4.29E+00 | 4.30E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 9.39E-02 | 0.00E+00 | 2.52E-01 | 9.50E-02 | 1.03E-03 | 5.79E-01 | 1.89E-01 | 7.68E-01 | 7.69E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 2.35E-01 | 0.00E+00 | 6.31E-02 | 4.80E-02 | 6.95E-04 | 1.15E+00 | 2.83E-01 | 1.44E+00 | 1.44E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 7.98E-03 | 0.00E+00 | 4.84E-01 | 6.35E-02 | 3.84E-03 | 8.55E-01 | 7.15E-02 | 9.26E-01 | 9.30E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 9.12E-03 | 0.00E+00 | 1.53E-02 | 4.38E-03 | 2.45E-05 | 1.86E-02 | 1.35E-02 | 3.21E-02 | 3.21E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 9.39E-02 | 0.00E+00 | 1.13E-01 | 7.86E-02 | 9.75E-04 | 5.49E-01 | 1.72E-01 | 7.22E-01 | 7.23E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 1.74E+00 | 0.00E+00 | 1.29E-01 | 5.01E-03 | 8.93E-06 | 5.73E-01 | 1.74E+00 | 2.31E+00 | 2.31E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 8.93E-02 | 3.09E-02 | 7.14E-02 | 0.00E+00 | 1.30E-05 | 3.26E-01 | 1.63E-01 | 4.89E-01 | 4.89E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 5.32E-03 | 3.54E-02 | 4.31E-01 | 0.00E+00 | 1.00E-02 | 4.71E+00 | 7.44E-01 | 5.45E+00 | 5.46E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 4.83E-03 | 1.45E-02 | 1.39E-01 | 0.00E+00 | 1.49E-03 | 2.98E-01 | 2.69E-02 | 3.25E-01 | 3.27E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 1.21E-02 | 1.25E-03 | 3.48E-02 | 0.00E+00 | 1.01E-03 | 1.42E-01 | 8.34E-02 | 2.25E-01 | 2.26E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 4.11E-04 | 3.32E-03 | 2.67E-01 | 0.00E+00 | 5.59E-03 | 8.97E-01 | 1.55E-02 | 9.13E-01 | 9.19E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 4.69E-04 | 8.30E-04 | 8.47E-03 | 0.00E+00 | 3.57E-05 | 3.93E-02 | 2.40E-03 | 4.17E-02 | 4.17E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 4.83E-03 | 1.30E-03 | 6.25E-02 | 0.00E+00 | 1.42E-03 | 1.24E-01 | 1.17E-02 | 1.36E-01 | 1.37E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 2.13E-01 | 4.91E-02 | 1.09E-01 | 4.20E-03 | 2.35E-05 | 3.53E+00 | 2.66E-01 | 3.80E+00 | 3.80E+00 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 1.27E-02 | 5.62E-02 | 6.56E-01 | 3.18E-01 | 1.82E-02 | 2.37E+01 | 3.87E-01 | 2.41E+01 | 2.41E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 1.15E-02 | 2.31E-02 | 2.12E-01 | 7.98E-02 | 2.70E-03 | 1.91E+00 | 1.14E-01 | 2.03E+00 | 2.03E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.88E-02 | 1.99E-03 | 5.29E-02 | 4.03E-02 | 1.83E-03 | 9.99E-01 | 7.10E-02 | 1.07E+00 | 1.07E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 9.79E-04 | 5.27E-03 | 4.06E-01 | 5.33E-02 | 1.01E-02 | 9.10E+00 | 5.95E-02 | 9.16E+00 | 9.17E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 1.12E-03 | 1.32E-03 | 1.29E-02 | 3.68E-03 | 6.45E-05 | 4.33E-01 | 6.12E-03 | 4.39E-01 | 4.39E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 1.15E-02 | 2.07E-03 | 9.51E-02 | 6.60E-02 | 2.57E-03 | 8.46E-01 | 7.95E-02 | 9.26E-01 | 9.28E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-49**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C3, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **6E+00** | **2E+00** | **7E+00** | **2E+00** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 7E-01 | 4E-01 | 9E-01 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | **1E+00** | **1E+00** | 6E-01 | 5E-01 | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 4E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **5E+00** | **2E+00** | **5E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Mercury** | **1E+01** | **5E+00** | **2E+01** | **6E+00** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Vanadium** | **4E+00** | **2E+00** | **2E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **6E+01** | **2E+01** | **8E+01** | **3E+01** | **1E+02** | **5E+01** | **1E+02** | **5E+01** |
| **Hawk - mid** | **tPCB-med** | **1E+00** | 4E-01 | **4E+00** | **1E+00** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 2E-01 | 9E-02 | 2E-02 | 1E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 2E-01 | 2E-01 | 7E-02 | 7E-02 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 4E-02 | 4E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 5E-01 | 3E-01 | 4E-02 | 2E-02 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Mercury** | 8E-01 | 3E-01 | 6E-01 | 2E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | 5E-01 | 2E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **1E+01** | **4E+00** | **4E+01** | **1E+01** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | **1E+00** | 5E-01 | 7E-01 | 2E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-02 | 1E-02 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 2E-01 | 1E-01 | 3E-03 | 2E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | 5E-01 | 3E-01 | 3E-02 | 2E-02 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+01** | **5E+00** | **1E+00** | 4E-01 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 5E-01 | 2E-01 | 7E-03 | 3E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 8E-01 | 7E-01 | 5E-02 | 4E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 1E-02 | 7E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 1E-02 | 7E-03 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **6E+00** | **3E+00** | 8E-02 | 4E-02 | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-02 | 1E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-50**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C3, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.17E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.62E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.50E+00** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.59E+01** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.58E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.17E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **1.62E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **8.50E+00** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **3.59E+01** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **1.58E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Barium** | **1.17E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Chromium** | **1.62E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Cobalt** | **8.50E+00** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Lead** | **3.59E+01** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Vanadium** | **1.58E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 2** | **tPCB-mink** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Barium** | **1.17E+02** | **8.29E+01** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Chromium** | **1.62E+01** | **2.08E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Cobalt** | **8.50E+00** | **1.05E+01** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Lead** | **3.59E+01** | **1.39E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Vanadium** | **1.58E+01** | **1.72E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Raccoon - 1** | **tPCB** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **1.17E+02** | **8.29E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **1.62E+01** | **2.08E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **8.50E+00** | **1.05E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **3.59E+01** | **1.39E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **1.58E+01** | **1.72E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Raccoon - 2** | **tPCB** | **2.40E+01** | **1.10E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Barium** | **1.17E+02** | **8.29E+01** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Chromium** | **1.62E+01** | **2.08E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Cobalt** | **8.50E+00** | **1.05E+01** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Lead** | **3.59E+01** | **1.39E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Vanadium** | **1.58E+01** | **1.72E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |

**Table E3-50**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C3, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| **GBH - mid** | **tPCB-med** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **GBH - high** | **tPCB-high** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |

**Table E3-50**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C3, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.36E-01 | 4.02E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E+00 | 2.04E+01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 1.73E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.96E-01 | 5.06E-01 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 1.03E+01 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.07E-02 | 4.97E-01 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.28E-01 | 8.38E-01 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.36E-01 | 4.02E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.25E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 9.62E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 3.03E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 1.50E-02 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 4.46E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.92E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 8.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-50**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C3, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.84E-01 | 1.76E-02 | 2.66E-05 | 4.40E+00 | 2.54E-01 | 4.66E+00 | 4.66E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E+00 | 1.33E+00 | 2.06E-02 | 2.23E+01 | 6.67E+00 | 2.89E+01 | 2.89E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.60E-01 | 3.33E-01 | 3.06E-03 | 1.99E+00 | 6.78E-01 | 2.67E+00 | 2.67E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 1.68E-01 | 2.07E-03 | 6.42E-01 | 5.64E-01 | 1.21E+00 | 1.21E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.75E-01 | 2.23E-01 | 1.14E-02 | 1.09E+01 | 7.57E-01 | 1.16E+01 | 1.16E+01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.47E-02 | 1.54E-02 | 7.31E-05 | 5.92E-01 | 3.60E-02 | 6.28E-01 | 6.28E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E-01 | 2.76E-01 | 2.91E-03 | 1.09E+00 | 5.03E-01 | 1.59E+00 | 1.60E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.84E-01 | 1.76E-02 | 2.66E-05 | 4.40E+00 | 2.54E-01 | 4.66E+00 | 4.66E+00 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 0.00E+00 | 0.00E+00 | 6.69E-03 | 8.29E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-01 | 0.00E+00 | 3.86E-03 | 7.05E-06 | 1.12E-02 | 8.58E+00 | 8.59E+00 | 8.59E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 | 0.00E+00 | 0.00E+00 | 3.51E-01 | 2.45E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 2.92E-01 | 5.45E-03 | 7.65E-02 | 3.40E+00 | 3.48E+00 | 3.48E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-03 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 7.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 7.32E-02 | 8.10E-04 | 8.25E-03 | 9.57E-01 | 9.65E-01 | 9.66E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 7.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 3.70E-02 | 5.49E-04 | 2.75E-02 | 1.58E-01 | 1.86E-01 | 1.87E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.35E-03 | 0.00E+00 | 0.00E+00 | 5.78E-03 | 9.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 0.00E+00 | 4.89E-02 | 3.03E-03 | 9.35E-03 | 1.74E-01 | 1.84E-01 | 1.87E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.24E-05 | 0.00E+00 | 0.00E+00 | 3.35E-04 | 1.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.26E-03 | 0.00E+00 | 3.38E-03 | 1.94E-05 | 8.24E-05 | 1.33E-01 | 1.33E-01 | 1.33E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 1.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 6.06E-02 | 7.70E-04 | 1.10E-02 | 2.71E-01 | 2.82E-01 | 2.83E-01 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 0.00E+00 | 0.00E+00 | 6.69E-03 | 8.29E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-01 | 0.00E+00 | 3.86E-03 | 7.05E-06 | 1.12E-02 | 8.58E+00 | 8.59E+00 | 8.59E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 0.00E+00 | 0.00E+00 | 1.69E-02 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 0.00E+00 | 4.94E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.38E-01 | 7.58E-01 | 8.96E-01 | 8.96E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 0.00E+00 | 0.00E+00 | 1.69E-02 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 0.00E+00 | 4.94E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.38E-01 | 7.58E-01 | 8.96E-01 | 8.96E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.45E-01 | 0.00E+00 | 0.00E+00 | 8.87E-01 | 0.00E+00 | 0.00E+00 | 3.42E-01 | 0.00E+00 | 5.66E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 9.45E-01 | 1.80E+00 | 2.74E+00 | 2.75E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 2.32E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.02E-01 | 3.54E-01 | 4.56E-01 | 4.58E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 2.00E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 3.10E-01 | 6.50E-01 | 6.51E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 0.00E+00 | 0.00E+00 | 2.15E-02 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.16E-01 | 8.91E-02 | 2.05E-01 | 2.11E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-03 | 0.00E+00 | 0.00E+00 | 8.46E-04 | 0.00E+00 | 0.00E+00 | 1.89E-03 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 1.02E-03 | 1.60E-02 | 1.70E-02 | 1.71E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 0.00E+00 | 2.08E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 3.93E-02 | 1.75E-01 | 1.77E-01 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-02 | 0.00E+00 | 0.00E+00 | 7.52E-03 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 5.71E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.89E-02 | 1.08E+00 | 1.09E+00 | 1.09E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-02 | 0.00E+00 | 0.00E+00 | 7.52E-03 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 5.71E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.89E-02 | 1.08E+00 | 1.09E+00 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 3.94E-01 | 0.00E+00 | 0.00E+00 | 1.40E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.29E-01 | 1.90E+00 | 2.02E+00 | 2.04E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 4.73E-01 | 0.00E+00 | 2.68E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.39E-02 | 5.04E-01 | 5.18E-01 | 5.19E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.80E-01 | 9.27E-01 | 9.28E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 6.50E-03 | 0.00E+00 | 0.00E+00 | 8.80E-02 | 0.00E+00 | 6.11E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.58E-02 | 1.04E-01 | 1.20E-01 | 1.27E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-04 | 0.00E+00 | 0.00E+00 | 3.76E-04 | 0.00E+00 | 0.00E+00 | 7.74E-03 | 0.00E+00 | 1.53E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 1.39E-04 | 9.69E-03 | 9.83E-03 | 9.87E-03 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 5.05E-02 | 0.00E+00 | 2.40E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 5.66E-02 | 7.52E-02 | 7.69E-02 |
| **Raccoon - 1** | **tPCB** | 2.58E-04 | 1.21E-01 | 0.00E+00 | 9.04E-03 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 2.96E-02 | 0.00E+00 | 0.00E+00 | 8.93E-02 | 3.09E-02 | 6.04E-02 | 0.00E+00 | 1.30E-05 | 3.15E-01 | 1.63E-01 | 4.78E-01 | 4.78E-01 |
| | **Barium** | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 2.95E-01 | 0.00E+00 | 1.00E-02 | 4.57E+00 | 7.44E-01 | 5.31E+00 | 5.32E+00 |
| | **Chromium** | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 4.09E-02 | 0.00E+00 | 1.49E-03 | 2.00E-01 | 2.69E-02 | 2.27E-01 | 2.28E-01 |
| | **Cobalt** | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.14E-02 | 0.00E+00 | 1.01E-03 | 1.28E-01 | 8.34E-02 | 2.12E-01 | 2.13E-01 |
| | **Lead** | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 9.05E-02 | 0.00E+00 | 5.59E-03 | 7.21E-01 | 1.55E-02 | 7.36E-01 | 7.42E-01 |
| | **Mercury** | 1.01E-04 | 1.50E-02 | 0.00E+00 | 6.65E-05 | 0.00E+00 | 0.00E+00 | 6.63E-04 | 4.34E-04 | 0.00E+00 | 0.00E+00 | 4.69E-04 | 8.30E-04 | 1.49E-02 | 0.00E+00 | 3.57E-05 | 4.57E-02 | 2.40E-03 | 4.81E-02 | 4.82E-02 |
| | **Vanadium** | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 3.98E-02 | 0.00E+00 | 1.42E-03 | 1.01E-01 | 1.17E-02 | 1.13E-01 | 1.14E-01 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-02 | 2.14E-03 | 4.99E-02 | 1.33E-02 | 3.09E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-01 | 0.00E+00 | 2.76E-03 | 1.30E-05 | 3.24E-02 | 5.05E-01 | 5.38E-01 | 5.38E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-01 | 4.83E-02 | 1.19E-01 | 6.95E-01 | 9.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 2.09E-01 | 1.00E-02 | 2.21E-01 | 1.62E+00 | 1.85E+00 | 1.86E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-02 | 3.11E-03 | 4.68E-02 | 4.84E-03 | 2.81E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-02 | 0.00E+00 | 5.25E-02 | 1.49E-03 | 2.39E-02 | 2.08E-01 | 2.32E-01 | 2.33E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-02 | 3.58E-03 | 1.35E-02 | 6.97E-02 | 2.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-03 | 0.00E+00 | 2.65E-02 | 1.01E-03 | 7.96E-02 | 2.79E-01 | 3.59E-01 | 3.60E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-02 | 4.83E-03 | 1.56E-02 | 1.15E-02 | 3.38E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 3.51E-02 | 5.59E-03 | 2.71E-02 | 1.16E-01 | 1.43E-01 | 1.48E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-04 | 1.87E-04 | 1.02E-03 | 6.63E-04 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.32E-03 | 0.00E+00 | 2.42E-03 | 3.57E-05 | 2.39E-04 | 1.25E-02 | 1.28E-02 | 1.28E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 | 2.06E-03 | 6.56E-03 | 4.84E-03 | 7.33E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-03 | 0.00E+00 | 4.34E-02 | 1.42E-03 | 3.19E-02 | 7.82E-02 | 1.10E-01 | 1.12E-01 |

**Table E3-50**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C3, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **9E+00** | **3E+00** | 5E-01 | 2E-01 | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | **1E+00** | 5E-01 | 3E-01 | 2E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 7E-01 | 7E-01 | 3E-01 | 2E-01 | 1E+00 | 1E+00 | 1E+00 | 1E+00 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 8E-02 | 8E-02 | 7E-02 | 7E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **7E+00** | **3E+00** | 5E-01 | 2E-01 | **7E+00** | **4E+00** | **7E+00** | **4E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **3E+01** | **9E+00** | **2E+00** | 5E-01 | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **1E+00** | 7E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+02** | **3E+01** | **6E+00** | **2E+00** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **GBH - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 2E-02 | 8E-03 | **2E+01** | **6E+00** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 4E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 4E-01 | 3E-01 | 4E-01 | 3E-01 | 4E-01 | 3E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 1E-01 | 5E-02 | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 4E-03 | 1E-03 | **6E+00** | **2E+00** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 8E-01 | 4E-01 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| **GBH - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | 3E-01 | 9E-02 | **2E+02** | **7E+01** | **2E+02** | **7E+01** | **2E+02** | **7E+01** |
| **Mink - 1** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | **3E+00** | **1E+00** | **2E+01** | **8E+00** | **2E+01** | **9E+00** | **2E+01** | **9E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | **3E+00** | **--** | **2E+01** | **--** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-02 | 8E-03 | 3E-02 | 1E-02 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 4E-02 | 4E-02 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 | 6E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 1E-02 | 7E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 5E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Mink - 2** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | 4E-01 | 2E-01 | **2E+01** | **1E+01** | **2E+01** | **1E+01** | **2E+01** | **1E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | 4E-01 | **--** | **2E+01** | **--** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 6E-03 | 5E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 2E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 2E-03 | 9E-04 | 1E-01 | 6E-02 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **1E+00** | 5E-01 | 7E-01 | 2E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 8E-02 | 7E-02 | 1E-02 | 1E-02 | 9E-02 | 8E-02 | 1E-01 | 8E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 6E-01 | 3E-01 | 3E-02 | 2E-02 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | 1E-01 | 5E-02 | **2E+00** | 7E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 4E-03 | 2E-03 | 3E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-02 | 8E-03 | 9E-02 | 7E-02 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 5E-02 | 4E-02 | 5E-02 | 4E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 2E-02 | 1E-02 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 2E-02 | 9E-03 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-51**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C3, Subarea Soil - North**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **1.36E+01** | **1.10E+00** | 1.00E+01 | 1.47E-01 | NA | 1.47E-01 | 5.90E+00 | -- | 5.90E+00 | 2.80E+01 | 6.60E+01 | 2E-01 | 9E-02 | -- | -- | 2E-01 | 9E-02 |
| | **Mercury** | **3.16E+00** | **9.59E-01** | 8.00E-01 | 1.01E-02 | NA | 1.01E-02 | 3.24E-02 | -- | 3.24E-02 | 4.40E-01 | 8.00E-01 | 7E-02 | 4E-02 | -- | -- | 7E-02 | 4E-02 |
| **Mourning Dove - high** | **tPCB-high** | **1.36E+01** | **1.10E+00** | 1.00E+01 | 1.47E-01 | NA | 1.47E-01 | 5.90E+00 | -- | 5.90E+00 | 2.10E+00 | 4.50E+00 | **3E+00** | **1E+00** | -- | -- | **3E+00** | **1E+00** |
| **Blue Jay - mid** | **tPCB-med** | **1.36E+01** | **1.10E+00** | 1.00E+01 | 1.92E-01 | NA | 1.92E-01 | 7.67E+00 | -- | 7.67E+00 | 2.80E+01 | 6.60E+01 | 3E-01 | 1E-01 | -- | -- | 3E-01 | 1E-01 |
| | **Mercury** | **3.16E+00** | **9.59E-01** | 8.00E-01 | 1.47E-02 | NA | 1.47E-02 | 4.69E-02 | -- | 4.69E-02 | 4.40E-01 | 8.00E-01 | 1E-01 | 6E-02 | -- | -- | 1E-01 | 6E-02 |
| **Blue Jay - high** | **tPCB-high** | **1.36E+01** | **1.10E+00** | 1.00E+01 | 1.92E-01 | NA | 1.92E-01 | 7.67E+00 | -- | 7.67E+00 | 2.10E+00 | 4.50E+00 | **4E+00** | **2E+00** | -- | -- | **4E+00** | **2E+00** |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **1.36E+01** | **1.10E+00** | 1.00E+01 | 1.59E-01 | NA | 1.59E-01 | 6.36E+00 | -- | 6.36E+00 | 2.80E+01 | 6.60E+01 | 2E-01 | 1E-01 | -- | -- | 2E-01 | 1E-01 |
| | **Mercury** | **3.16E+00** | **9.59E-01** | 8.00E-01 | 1.31E-02 | NA | 1.31E-02 | 4.21E-02 | -- | 4.21E-02 | 4.40E-01 | 8.00E-01 | 1E-01 | 5E-02 | -- | -- | 1E-01 | 5E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.36E+01** | **1.10E+00** | 1.00E+01 | 1.59E-01 | NA | 1.59E-01 | 6.36E+00 | -- | 6.36E+00 | 2.10E+00 | 4.50E+00 | **3E+00** | **1E+00** | -- | -- | **3E+00** | **1E+00** |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.36E+01** | **1.10E+00** | 1.00E+01 | 6.05E-02 | 7.24E-03 | 6.77E-02 | 2.42E+00 | 2.90E-01 | 2.71E+00 | 2.80E+01 | 6.60E+01 | 9E-02 | 4E-02 | 1E-02 | 4E-03 | 1E-01 | 4E-02 |
| | **Mercury** | **3.16E+00** | **9.59E-01** | 8.00E-01 | 5.80E-03 | 2.97E-03 | 8.77E-03 | 1.86E-02 | 9.50E-03 | 2.81E-02 | 4.40E-01 | 8.00E-01 | 4E-02 | 2E-02 | 2E-02 | 1E-02 | 6E-02 | 4E-02 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **1.36E+01** | **1.10E+00** | 1.00E+01 | 6.05E-02 | 7.24E-03 | 6.77E-02 | 2.42E+00 | 2.90E-01 | 2.71E+00 | 2.10E+00 | 4.50E+00 | **1E+00** | 5E-01 | 1E-01 | 6E-02 | **1E+00** | 6E-01 |
| **Hawk - mid** | **tPCB-med** | **1.36E+01** | **1.10E+00** | 1.00E+01 | 7.25E-01 | 1.05E+00 | 1.78E+00 | 2.90E+01 | 4.21E+01 | 7.11E+01 | 2.80E+01 | 6.60E+01 | 1E+00 | 4E-01 | **2E+00** | 6E-01 | **3E+00** | **1E+00** |
| | **Mercury** | **3.16E+00** | **9.59E-01** | 8.00E-01 | 1.83E-02 | 1.76E-02 | 3.59E-02 | 5.86E-02 | 5.63E-02 | 1.15E-01 | 4.40E-01 | 8.00E-01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 | 3E-01 | 1E-01 |
| **Hawk - high** | **tPCB-high** | **1.36E+01** | **1.10E+00** | 1.00E+01 | 7.25E-01 | 1.05E+00 | 1.78E+00 | 2.90E+01 | 4.21E+01 | 7.11E+01 | 2.10E+00 | 4.50E+00 | **1E+01** | **6E+00** | **2E+01** | **9E+00** | **3E+01** | **2E+01** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-52**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C3, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **2.83E+01** | **1.10E+00** | 1.00E+01 | 3.06E-01 | NA | 3.06E-01 | 1.22E+01 | -- | 1.22E+01 | 2.80E+01 | 6.60E+01 | 4E-01 | 2E-01 | -- | -- | 4E-01 | 2E-01 |
| | **Mercury** | **3.36E+00** | **9.59E-01** | 8.00E-01 | 1.08E-02 | NA | 1.08E-02 | 3.44E-02 | -- | 3.44E-02 | 4.40E-01 | 8.00E-01 | 8E-02 | 4E-02 | -- | -- | 8E-02 | 4E-02 |
| **Mourning Dove - high** | **tPCB-high** | **2.83E+01** | **1.10E+00** | 1.00E+01 | 3.06E-01 | NA | 3.06E-01 | 1.22E+01 | -- | 1.22E+01 | 2.10E+00 | 4.50E+00 | **6E+00** | **3E+00** | -- | -- | **6E+00** | **3E+00** |
| **Blue Jay - mid** | **tPCB-med** | **2.83E+01** | **1.10E+00** | 1.00E+01 | 4.00E-01 | NA | 4.00E-01 | 1.60E+01 | -- | 1.60E+01 | 2.80E+01 | 6.60E+01 | 6E-01 | 2E-01 | -- | -- | 6E-01 | 2E-01 |
| | **Mercury** | **3.36E+00** | **9.59E-01** | 8.00E-01 | 1.55E-02 | NA | 1.55E-02 | 4.96E-02 | -- | 4.96E-02 | 4.40E-01 | 8.00E-01 | 1E-01 | 6E-02 | -- | -- | 1E-01 | 6E-02 |
| **Blue Jay - high** | **tPCB-high** | **2.83E+01** | **1.10E+00** | 1.00E+01 | 4.00E-01 | NA | 4.00E-01 | 1.60E+01 | -- | 1.60E+01 | 2.10E+00 | 4.50E+00 | **8E+00** | **4E+00** | -- | -- | **8E+00** | **4E+00** |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **2.83E+01** | **1.10E+00** | 1.00E+01 | 3.33E-01 | NA | 3.33E-01 | 1.33E+01 | -- | 1.33E+01 | 2.80E+01 | 6.60E+01 | 5E-01 | 2E-01 | -- | -- | 5E-01 | 2E-01 |
| | **Mercury** | **3.36E+00** | **9.59E-01** | 8.00E-01 | 1.38E-02 | NA | 1.39E-02 | 4.43E-02 | -- | 4.43E-02 | 4.40E-01 | 8.00E-01 | 1E-01 | 6E-02 | -- | -- | 1E-01 | 6E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **2.83E+01** | **1.10E+00** | 1.00E+01 | 3.33E-01 | NA | 3.33E-01 | 1.33E+01 | -- | 1.33E+01 | 2.10E+00 | 4.50E+00 | **6E+00** | **3E+00** | -- | -- | **6E+00** | **3E+00** |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **2.83E+01** | **1.10E+00** | 1.00E+01 | 1.27E-01 | 7.24E-03 | 1.34E-01 | 5.07E+00 | 2.90E-01 | 5.36E+00 | 2.80E+01 | 6.60E+01 | 2E-01 | 8E-02 | 1E-02 | 4E-03 | 2E-01 | 8E-02 |
| | **Mercury** | **3.36E+00** | **9.59E-01** | 8.00E-01 | 6.12E-03 | 2.97E-03 | 9.09E-03 | 1.96E-02 | 9.50E-03 | 2.91E-02 | 4.40E-01 | 8.00E-01 | 4E-02 | 2E-02 | 2E-02 | 1E-02 | 7E-02 | 4E-02 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **2.83E+01** | **1.10E+00** | 1.00E+01 | 1.27E-01 | 7.24E-03 | 1.34E-01 | 5.07E+00 | 2.90E-01 | 5.36E+00 | 2.10E+00 | 4.50E+00 | **2E+00** | **1E+00** | 1E-01 | 6E-02 | **3E+00** | **1E+00** |
| **Hawk - mid** | **tPCB-med** | **2.83E+01** | **1.10E+00** | 1.00E+01 | 1.12E+00 | 1.05E+00 | 2.18E+00 | 4.50E+01 | 4.21E+01 | 8.70E+01 | 2.80E+01 | 6.60E+01 | **2E+00** | 7E-01 | **2E+00** | 6E-01 | **3E+00** | **1E+00** |
| | **Mercury** | **3.36E+00** | **9.59E-01** | 8.00E-01 | 1.94E-02 | 1.76E-02 | 3.70E-02 | 6.21E-02 | 5.63E-02 | 1.18E-01 | 4.40E-01 | 8.00E-01 | 1E-01 | 8E-02 | 1E-01 | 7E-02 | 3E-01 | 1E-01 |
| **Hawk - high** | **tPCB-high** | **2.83E+01** | **1.10E+00** | 1.00E+01 | 1.12E+00 | 1.05E+00 | 2.18E+00 | 4.50E+01 | 4.21E+01 | 8.70E+01 | 2.10E+00 | 4.50E+00 | **2E+01** | **1E+01** | **2E+01** | **9E+00** | **4E+01** | **2E+01** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-53**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C3, Aquatic and Subarea Soil - Riparian**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Tree Swallow - mid** | **tPCB-med** | **2.40E+01** | **1.10E+00** | 1.00E+01 | NA | 1.11E-01 | 1.11E-01 | -- | 4.46E+00 | 4.46E+00 | 2.80E+01 | 6.60E+01 | -- | -- | 2E-01 | 7E-02 | 2E-01 | 7E-02 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | 8.00E-01 | NA | 1.59E-03 | 1.60E-03 | -- | 5.10E-03 | 5.11E-03 | 4.40E-01 | 8.00E-01 | -- | -- | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| **Tree Swallow - high** | **tPCB-high** | **2.40E+01** | **1.10E+00** | 1.00E+01 | NA | 1.11E-01 | 1.11E-01 | -- | 4.46E+00 | 4.46E+00 | 2.10E+00 | 4.50E+00 | -- | -- | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.40E+01** | **1.10E+00** | 1.00E+01 | 4.45E-01 | 5.52E-03 | 4.51E-01 | 1.78E+01 | 2.21E-01 | 1.80E+01 | 2.80E+01 | 6.60E+01 | 6E-01 | 3E-01 | 8E-03 | 3E-03 | 6E-01 | 3E-01 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | 8.00E-01 | 3.62E-02 | 1.86E-03 | 3.81E-02 | 1.16E-01 | 5.94E-03 | 1.22E-01 | 4.40E-01 | 8.00E-01 | 3E-01 | 1E-01 | 1E-02 | 7E-03 | 3E-01 | 2E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.40E+01** | **1.10E+00** | 1.00E+01 | 4.45E-01 | 5.52E-03 | 4.51E-01 | 1.78E+01 | 2.21E-01 | 1.80E+01 | 2.10E+00 | 4.50E+00 | **8E+00** | **4E+00** | 1E-01 | 5E-02 | **9E+00** | **4E+00** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **2.40E+01** | **1.10E+00** | 1.00E+01 | NA | 2.31E-01 | 2.31E-01 | -- | 9.24E+00 | 9.24E+00 | 2.80E+01 | 6.60E+01 | -- | -- | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | 8.00E-01 | NA | 6.19E-03 | 6.19E-03 | -- | 1.98E-02 | 1.98E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **2.40E+01** | **1.10E+00** | 1.00E+01 | NA | 2.31E-01 | 2.31E-01 | -- | 9.24E+00 | 9.24E+00 | 2.10E+00 | 4.50E+00 | -- | -- | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **2.40E+01** | **1.10E+00** | 1.00E+01 | NA | 4.26E-01 | 4.26E-01 | -- | 1.70E+01 | 1.70E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | 8.00E-01 | NA | 3.58E-03 | 3.59E-03 | -- | 1.15E-02 | 1.15E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **2.40E+01** | **1.10E+00** | 1.00E+01 | NA | 4.26E-01 | 4.26E-01 | -- | 1.70E+01 | 1.70E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **2.40E+01** | **1.10E+00** | 1.00E+01 | NA | 3.44E-01 | 3.44E-01 | -- | 1.38E+01 | 1.38E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | **5.91E+00** | **9.59E-01** | 8.00E-01 | NA | 4.31E-03 | 4.31E-03 | -- | 1.38E-02 | 1.38E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **2.40E+01** | **1.10E+00** | 1.00E+01 | NA | 3.44E-01 | 3.44E-01 | -- | 1.38E+01 | 1.38E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **7E+00** | **3E+00** | **7E+00** | **3E+00** |
| **GBH - mid** | **tPCB-med** | **2.40E+01** | **1.10E+00** | 1.00E+01 | 4.73E-02 | 9.45E+00 | 9.50E+00 | 1.89E+00 | 3.78E+02 | 3.80E+02 | 2.80E+01 | 6.60E+01 | 7E-02 | 3E-02 | **1E+01** | **6E+00** | **1E+01** | **6E+00** |
| | **Mercury** | **5.91E+00** | **9.59E-01** | 8.00E-01 | 2.36E-04 | 1.14E-01 | 1.14E-01 | 7.57E-04 | 3.63E-01 | 3.64E-01 | 4.40E-01 | 8.00E-01 | 2E-03 | 9E-04 | 8E-01 | 5E-01 | 8E-01 | 5E-01 |
| **GBH - high** | **tPCB-high** | **2.40E+01** | **1.10E+00** | 1.00E+01 | 4.73E-02 | 9.45E+00 | 9.50E+00 | 1.89E+00 | 3.78E+02 | 3.80E+02 | 2.10E+00 | 4.50E+00 | 9E-01 | 4E-01 | **2E+02** | **8E+01** | **2E+02** | **8E+01** |
| **Osprey - mid** | **tPCB-med** | **2.40E+01** | **1.10E+00** | 1.00E+01 | NA | 2.75E+00 | 2.75E+00 | -- | 1.10E+02 | 1.10E+02 | 2.80E+01 | 6.60E+01 | -- | -- | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Mercury** | **5.91E+00** | **9.59E-01** | 8.00E-01 | NA | 2.85E-02 | 2.85E-02 | -- | 9.12E-02 | 9.13E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | **2.40E+01** | **1.10E+00** | 1.00E+01 | NA | 2.75E+00 | 2.75E+00 | -- | 1.10E+02 | 1.10E+02 | 2.10E+00 | 4.50E+00 | -- | -- | **5E+01** | **2E+01** | **5E+01** | **2E+01** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-54**

**Lower Trophic Level Terrestrial Risk Calculations For Reach C4**

**Anniston PCB Site, Anniston, Alabama**

| Media | Receptor Community | COPC | Soil EPC (mg/kg) | Toxicity Benchmarks[a] (mg/kg) | | Hazard Quotients | |
|---|---|---|---|---|---|---|---|
| | | | | NOAEL | LOAEL | NOAEL | LOAEL |
| Soil - North | **Terrestrial Plants** | **PCB** | 9.37E+00 | 4.00E+01 | NA | 2E-01 | -- |
| | | **Chromium** | 4.38E+01 | 1.00E+00 | NA | **4E+01** | -- |
| | | **Lead** | 6.29E+01 | 1.20E+02 | NA | 5E-01 | -- |
| | | **Mercury** | 2.24E+00 | 3.00E-01 | NA | **7E+00** | -- |
| | | **Vanadium** | 2.33E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 9.37E+00 | 3.60E+00 | 3.60E+01 | **3E+00** | 3E-01 |
| | | **Chromium** | 4.38E+01 | 4.00E-01 | NA | **1E+02** | -- |
| | | **Lead** | 6.29E+01 | 1.70E+03 | NA | 4E-02 | -- |
| | | **Mercury** | 2.24E+00 | 1.00E-01 | 0.23 | **2E+01** | **1E+01** |
| | | **Vanadium** | 2.33E+01 | NA | NA | -- | -- |
| Soil - South | **Terrestrial Plants** | **PCB** | 6.26E+00 | 4.00E+01 | NA | 2E-01 | -- |
| | | **Chromium** | 2.62E+01 | 1.00E+00 | NA | **3E+01** | -- |
| | | **Lead** | 4.95E+01 | 1.20E+02 | NA | 4E-01 | -- |
| | | **Mercury** | 2.38E+00 | 3.00E-01 | NA | **8E+00** | -- |
| | | **Vanadium** | 2.26E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 6.26E+00 | 3.60E+00 | 3.60E+01 | **2E+00** | 2E-01 |
| | | **Chromium** | 2.62E+01 | 4.00E-01 | NA | **7E+01** | -- |
| | | **Lead** | 4.95E+01 | 1.70E+03 | NA | 3E-02 | -- |
| | | **Mercury** | 2.38E+00 | 1.00E-01 | 0.23 | **2E+01** | **1E+01** |
| | | **Vanadium** | 2.26E+01 | NA | NA | -- | -- |
| Soil - Riparian | **Terrestrial Plants** | **PCB** | 9.81E+00 | 4.00E+01 | NA | 2E-01 | -- |
| | | **Chromium** | 4.60E+01 | 1.00E+00 | NA | **5E+01** | -- |
| | | **Lead** | 8.91E+01 | 1.20E+02 | NA | 7E-01 | -- |
| | | **Mercury** | 3.63E+00 | 3.00E-01 | NA | **1E+01** | -- |
| | | **Vanadium** | 2.22E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 9.81E+00 | 3.60E+00 | 3.60E+01 | **3E+00** | 3E-01 |
| | | **Chromium** | 4.60E+01 | 4.00E-01 | NA | **1E+02** | -- |
| | | **Lead** | 8.91E+01 | 1.70E+03 | NA | 5E-02 | -- |
| | | **Mercury** | 3.63E+00 | 1.00E-01 | 0.23 | **4E+01** | **2E+01** |
| | | **Vanadium** | 2.22E+01 | NA | NA | -- | -- |

**Notes:**

a = NOAELs represent chronic values and LOAELs represent acute values
COPC = constituent of potential concern
EPC - exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
NA = not applicable
NOAEL = no observed adverse effect level
OU = Operable Unit
PCB = total polychlorinated biphenyl

**Bold indicates hazard quotients greater than 1**

**Table E3-55**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C4**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-55**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C4**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | |
|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Tree Swallow - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Tree Swallow - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Osprey - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Osprey - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Bat** | **tPCB** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Otter** | **tPCB-mink** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |

**Table E3-55**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C4**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-55**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C4**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.17E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 1.17E+01 | 1.17E+01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 6.08E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 6.08E-01 | 6.33E-01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.77E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 4.77E+00 | 4.77E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 7.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 7.47E-02 | 7.73E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 6.36E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 6.36E-02 | 7.78E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 7.59E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 7.59E-02 | 7.60E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 1.42E-01 | 1.46E-01 | 3.44E-01 | 7.00E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.17E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 1.17E+01 | 1.17E+01 | 4.33E-02 | 1.30E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 2.45E-01 | 0.00E+00 | 8.59E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.76E-02 | 2.66E-05 | 8.91E+00 | 8.91E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 3.86E+00 | 0.00E+00 | 3.86E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E+00 | 2.06E-02 | 9.24E+00 | 9.26E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 5.69E-01 | 0.00E+00 | 5.69E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.80E-01 | 3.06E-03 | 1.72E+00 | 1.72E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 4.65E-01 | 0.00E+00 | 4.65E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-01 | 2.07E-03 | 1.07E+00 | 1.07E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 9.16E-01 | 0.00E+00 | 9.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.13E-01 | 1.14E-02 | 2.24E+00 | 2.26E+00 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 2.78E-02 | 0.00E+00 | 8.54E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.07E-02 | 7.31E-05 | 1.44E-01 | 1.44E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 2.88E-01 | 0.00E+00 | 2.88E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.37E-01 | 2.91E-03 | 8.13E-01 | 8.16E-01 | 3.44E-01 | 7.00E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 2.45E-01 | 0.00E+00 | 8.59E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.76E-02 | 2.66E-05 | 8.91E+00 | 8.91E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.35E+00 | 0.00E+00 | 0.00E+00 | 7.63E-03 | 1.72E-05 | 6.36E+00 | 6.36E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.03E+00 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 1.33E-02 | 7.18E+00 | 7.19E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E+00 | 0.00E+00 | 0.00E+00 | 5.70E-02 | 1.98E-03 | 1.75E+00 | 1.75E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 1.32E-02 | 1.34E-03 | 3.06E+00 | 3.06E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-02 | 0.00E+00 | 0.00E+00 | 4.07E-02 | 7.40E-03 | 8.49E-02 | 9.23E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.12E-02 | 0.00E+00 | 0.00E+00 | 3.02E-03 | 4.73E-05 | 2.42E-02 | 2.42E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 2.33E-02 | 1.88E-03 | 2.10E-01 | 2.12E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.35E+00 | 0.00E+00 | 0.00E+00 | 7.63E-03 | 1.72E-05 | 6.36E+00 | 6.36E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 0.00E+00 | 0.00E+00 | 4.82E+00 | 0.00E+00 | 1.65E-01 | 7.63E-03 | 1.72E-05 | 5.14E+00 | 5.14E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.07E+00 | 0.00E+00 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 4.40E-01 | 1.50E-01 | 1.33E-02 | 1.40E+01 | 1.40E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.28E+00 | 0.00E+00 | 1.58E-01 | 5.70E-02 | 1.98E-03 | 1.54E+00 | 1.54E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.29E-02 | 1.32E-02 | 1.34E-03 | 2.94E+00 | 2.94E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 3.36E-02 | 0.00E+00 | 4.00E-02 | 4.07E-02 | 7.40E-03 | 1.64E-01 | 1.72E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.56E-03 | 0.00E+00 | 0.00E+00 | 1.61E-02 | 0.00E+00 | 4.43E-03 | 3.02E-03 | 4.73E-05 | 2.91E-02 | 2.92E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 1.05E-02 | 2.33E-02 | 1.88E-03 | 2.18E-01 | 2.20E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 0.00E+00 | 0.00E+00 | 4.82E+00 | 0.00E+00 | 1.65E-01 | 7.63E-03 | 1.72E-05 | 5.14E+00 | 5.14E+00 | 4.33E-02 | 1.30E-01 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.80E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 3.80E+00 | 3.80E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.92E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 9.92E-01 | 9.98E-01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.23E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 2.23E-01 | 2.24E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 2.20E-02 | 2.26E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.33E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 2.33E-02 | 2.68E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 1.78E-02 | 1.78E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.55E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 2.55E-02 | 2.63E-02 | 3.44E-01 | 7.00E-01 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.80E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 3.80E+00 | 3.80E+00 | 4.33E-02 | 1.30E-01 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 8.65E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 8.65E+00 | 8.65E+00 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 4.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 4.49E-01 | 4.68E-01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 3.52E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 3.52E+00 | 3.52E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 5.52E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 5.52E-02 | 5.71E-02 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 4.70E-02 | 5.77E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 5.61E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 5.61E-02 | 5.61E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.05E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 1.05E-01 | 1.08E-01 | 4.16E+00 | 8.31E+00 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.01E-01 | 1.50E+00 | 4.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 2.82E+00 | 2.82E+00 | 5.00E-02 | 1.00E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.01E-01 | 1.50E+00 | 4.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 2.82E+00 | 2.82E+00 | na | 5.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-01 | 8.52E-02 | 4.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 7.87E-01 | 7.96E-01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.29E-02 | 2.21E-02 | 1.12E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 1.87E-01 | 1.89E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-03 | 1.94E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.09E-01 | 2.10E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.53E-03 | 2.52E-03 | 2.94E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 1.10E-02 | 1.64E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.22E-03 | 1.01E-02 | 1.41E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 1.57E-02 | 1.57E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.03E-03 | 1.58E-03 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 2.00E-02 | 2.14E-02 | 4.16E+00 | 8.31E+00 |

**Table E3-55**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C4**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | **3E+01** | **8E+00** | **3E+01** | **8E+00** |
| | **Barium** | 3E-02 | 1E-02 | 3E-02 | 2E-02 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 1E-02 | 1E-02 | 1E-02 | 1E-02 |
| | **Lead** | 4E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Mercury** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | **3E+02** | **9E+01** | **3E+02** | **9E+01** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Chromium** | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Mercury** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **2E+02** | **7E+01** | **2E+02** | **7E+01** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Barium** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 5E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | **1E+02** | **5E+01** | **1E+02** | **5E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| | **Chromium** | 6E-01 | 5E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Osprey - mid** | **tPCB-med** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 8E-02 | 8E-02 | 8E-02 | 8E-02 |
| | **Cobalt** | 3E-03 | 3E-03 | 3E-03 | 3E-03 |
| | **Lead** | 1E-02 | 7E-03 | 2E-02 | 8E-03 |
| | **Mercury** | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| | **Vanadium** | 7E-02 | 4E-02 | 8E-02 | 4E-02 |
| **Osprey - high** | **tPCB-high** | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Bat** | **tPCB** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| | **Barium** | 9E-03 | 4E-03 | 9E-03 | 4E-03 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 8E-03 | 6E-03 | 8E-03 | 6E-03 |
| | **Lead** | 1E-02 | 5E-03 | 1E-02 | 6E-03 |
| | **Mercury** | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| | **Vanadium** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | **6E+01** | **3E+01** | **6E+01** | **3E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | **--** | **6E+01** | **--** | **6E+01** |
| | **Barium** | 2E-02 | 7E-03 | 2E-02 | 7E-03 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 2E-03 | 1E-03 | 3E-03 | 2E-03 |
| | **Mercury** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 5E-03 | 2E-03 | 5E-03 | 3E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-56**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **9.37E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **6.29E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **9.37E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **9.37E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **6.29E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **9.37E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **9.37E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **6.29E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **9.37E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **9.37E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **6.29E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **9.37E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **6.29E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **9.37E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **6.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **9.37E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **6.29E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **9.37E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **6.29E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-56**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioacccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-01 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-02 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 5.56E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.79E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E+00 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.34E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.57E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-01 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.66E-01 | 2.68E-02 | 0.00E+00 | 7.32E-01 | 0.00E+00 | 2.01E-01 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.34E-02 | 6.68E-04 | 0.00E+00 | 6.07E-02 | 0.00E+00 | 4.80E-02 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 4.70E-01 | 1.24E-01 | 0.00E+00 | 6.76E-01 | 0.00E+00 | 9.38E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.36E-02 | 8.72E-03 | 0.00E+00 | 7.00E-01 | 0.00E+00 | 1.35E+00 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.97E-02 | 3.22E-03 | 0.00E+00 | 2.46E-01 | 0.00E+00 | 4.99E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.66E-01 | 2.68E-02 | 0.00E+00 | 7.32E-01 | 0.00E+00 | 2.01E-01 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.04E-01 | 1.75E-01 | 1.59E+00 | 3.29E+00 | 0.00E+00 | 3.20E-01 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.46E-03 | 4.35E-03 | 1.32E-01 | 2.73E-01 | 0.00E+00 | 7.65E-02 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 8.64E-02 | 8.09E-01 | 1.47E+00 | 3.04E+00 | 0.00E+00 | 1.49E+00 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 4.33E-03 | 5.69E-02 | 1.52E+00 | 3.15E+00 | 0.00E+00 | 2.15E+00 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.63E-03 | 2.10E-02 | 5.34E-01 | 1.10E+00 | 0.00E+00 | 7.95E-01 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.04E-01 | 1.75E-01 | 1.59E+00 | 3.29E+00 | 0.00E+00 | 3.20E-01 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 7.28E-02 | 5.19E-02 | 2.06E+00 | 1.42E+00 | 0.00E+00 | 3.59E-02 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.72E-03 | 1.29E-03 | 1.71E-01 | 1.18E-01 | 0.00E+00 | 8.59E-03 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.04E-02 | 2.41E-01 | 1.90E+00 | 1.31E+00 | 0.00E+00 | 1.68E-01 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.03E-03 | 1.69E-02 | 1.97E+00 | 1.36E+00 | 0.00E+00 | 2.41E-01 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.54E-03 | 6.23E-03 | 6.91E-01 | 4.76E-01 | 0.00E+00 | 8.93E-02 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.96E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-03 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.64E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.57E-04 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 5.77E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-02 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.90E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-02 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.42E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.83E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.16E-01 | 2.39E-02 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-03 | 5.72E-03 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.77E-01 | 1.12E-01 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.65E-01 | 1.61E-01 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 5.94E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.06E-02 | 0.00E+00 | 6.59E-02 | 0.00E+00 | 2.10E-01 | 9.93E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.21E-04 | 0.00E+00 | 5.47E-03 | 0.00E+00 | 6.62E-04 | 2.38E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.53E-02 | 0.00E+00 | 6.09E-02 | 0.00E+00 | 3.92E-01 | 4.65E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.27E-03 | 0.00E+00 | 6.31E-02 | 0.00E+00 | 1.84E-01 | 6.67E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.06E-03 | 0.00E+00 | 2.21E-02 | 0.00E+00 | 1.87E-01 | 2.47E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.99E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.52E-01 | 9.93E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.12E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-04 | 2.38E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.46E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.71E-01 | 4.65E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.74E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-01 | 6.67E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.47E-02 | 1.45E-03 |

**Table E3-56**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 8.54E-01 | 8.55E-01 | 4.67E-01 | 1.40E+00 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | 5.98E-02 | 5.99E-02 | 2.27E-02 | 6.80E-02 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Chromium** | 1.42E+00 | 1.42E+00 | 2.66E+00 | 2.80E+00 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | 1.26E+00 | 1.27E+00 | 1.63E+00 | 3.26E+00 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Vanadium** | 4.81E-01 | 4.83E-01 | 3.44E-01 | 7.00E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | 8.54E-01 | 8.55E-01 | 4.33E-02 | 1.30E-01 | **2E+01** | **7E+00** | **2E+01** | **7E+00** |
| **Blue Jay - mid** | **tPCB-med** | 1.53E+00 | 1.53E+00 | 4.67E-01 | 1.40E+00 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | 1.23E-01 | 1.23E-01 | 2.27E-02 | 6.80E-02 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Chromium** | 2.21E+00 | 2.21E+00 | 2.66E+00 | 2.80E+00 | 8E-01 | 8E-01 | 8E-01 | 8E-01 |
| | **Lead** | 2.08E+00 | 2.09E+00 | 1.63E+00 | 3.26E+00 | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Vanadium** | 7.67E-01 | 7.69E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | 1.53E+00 | 1.53E+00 | 4.33E-02 | 1.30E-01 | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 5.48E+00 | 5.48E+00 | 4.67E-01 | 1.40E+00 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Mercury** | 4.88E-01 | 4.88E-01 | 2.27E-02 | 6.80E-02 | **2E+01** | **7E+00** | **2E+01** | **7E+00** |
| | **Chromium** | 6.90E+00 | 6.90E+00 | 2.66E+00 | 2.80E+00 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Lead** | 6.88E+00 | 6.89E+00 | 1.63E+00 | 3.26E+00 | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Vanadium** | 2.46E+00 | 2.46E+00 | 3.44E-01 | 7.00E-01 | **7E+00** | **4E+00** | **7E+00** | **4E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 5.48E+00 | 5.48E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Shrew - 1** | **tPCB** | 3.64E+00 | 3.64E+00 | 2.30E-01 | 6.80E-01 | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Mercury** | 3.00E-01 | 3.00E-01 | 7.50E-02 | 1.50E-01 | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Chromium** | 3.68E+00 | 3.68E+00 | 2.40E+00 | 2.82E+00 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Lead** | 3.59E+00 | 3.60E+00 | 4.70E+00 | 8.90E+00 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Vanadium** | 1.26E+00 | 1.27E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| **Deer** | **tPCB** | 7.23E-02 | 7.23E-02 | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 2.30E-03 | 2.33E-03 | 7.50E-02 | 1.50E-01 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Chromium** | 7.05E-02 | 7.17E-02 | 2.40E+00 | 2.82E+00 | 3E-02 | 3E-02 | 3E-02 | 3E-02 |
| | **Lead** | 2.13E-02 | 2.58E-02 | 4.70E+00 | 8.90E+00 | 5E-03 | 2E-03 | 5E-03 | 3E-03 |
| | **Vanadium** | 9.25E-03 | 1.04E-02 | 4.16E+00 | 8.31E+00 | 2E-03 | 1E-03 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | 4.40E-01 | 4.40E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | 7.03E-03 | 7.08E-03 | 7.50E-02 | 1.50E-01 | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| | **Chromium** | 8.89E-01 | 8.91E-01 | 2.40E+00 | 2.82E+00 | 4E-01 | 3E-01 | 4E-01 | 3E-01 |
| | **Lead** | 5.26E-01 | 5.33E-01 | 4.70E+00 | 8.90E+00 | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Vanadium** | 4.30E-01 | 4.32E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 3.16E-01 | 3.16E-01 | 2.30E-01 | 6.80E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Mercury** | 9.23E-03 | 9.26E-03 | 7.50E-02 | 1.50E-01 | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 5.24E-01 | 5.26E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3.15E-01 | 3.21E-01 | 4.70E+00 | 8.90E+00 | 7E-02 | 4E-02 | 7E-02 | 4E-02 |
| | **Vanadium** | 2.35E-01 | 2.36E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 2.71E-01 | 2.71E-01 | 2.30E-01 | 6.80E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 3.38E-03 | 3.42E-03 | 7.50E-02 | 1.50E-01 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 5.25E-01 | 5.27E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 2.88E-01 | 2.94E-01 | 4.70E+00 | 8.90E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Vanadium** | 2.50E-01 | 2.51E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-57**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **6.26E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.95E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **6.26E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **6.26E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.95E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **6.26E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **6.26E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.95E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **6.26E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **6.26E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.95E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **6.26E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.95E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **6.26E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.95E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **6.26E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.95E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **6.26E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 1.77E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **4.95E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-57**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 4.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-01 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.68E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.67E-02 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.33E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.14E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.72E-01 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.26E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 4.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-01 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.83E-01 | 1.79E-02 | 0.00E+00 | 4.86E-01 | 0.00E+00 | 1.34E-01 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.42E-02 | 7.08E-04 | 0.00E+00 | 6.37E-02 | 0.00E+00 | 5.09E-02 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.81E-01 | 1.24E-01 | 0.00E+00 | 4.04E-01 | 0.00E+00 | 5.61E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.85E-02 | 6.86E-03 | 0.00E+00 | 5.51E-01 | 0.00E+00 | 1.06E+00 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.91E-02 | 3.12E-03 | 0.00E+00 | 2.38E-01 | 0.00E+00 | 4.84E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.83E-01 | 1.79E-02 | 0.00E+00 | 4.86E-01 | 0.00E+00 | 1.34E-01 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 7.05E-02 | 1.17E-01 | 1.06E+00 | 2.18E+00 | 0.00E+00 | 2.14E-01 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.61E-03 | 4.62E-03 | 1.38E-01 | 2.86E-01 | 0.00E+00 | 8.11E-02 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.17E-02 | 8.09E-01 | 8.79E-01 | 1.82E+00 | 0.00E+00 | 8.94E-01 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.41E-03 | 4.48E-02 | 1.20E+00 | 2.47E+00 | 0.00E+00 | 1.69E+00 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.52E-03 | 2.03E-02 | 5.18E-01 | 1.07E+00 | 0.00E+00 | 7.71E-01 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 7.05E-02 | 1.17E-01 | 1.06E+00 | 2.18E+00 | 0.00E+00 | 2.14E-01 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 4.93E-02 | 3.47E-02 | 1.37E+00 | 9.41E-01 | 0.00E+00 | 2.40E-02 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.82E-03 | 1.37E-03 | 1.79E-01 | 1.23E-01 | 0.00E+00 | 9.12E-03 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.61E-02 | 2.41E-01 | 1.14E+00 | 7.83E-01 | 0.00E+00 | 1.00E-01 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.38E-03 | 1.33E-02 | 1.55E+00 | 1.07E+00 | 0.00E+00 | 1.90E-01 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.46E-03 | 6.04E-03 | 6.70E-01 | 4.62E-01 | 0.00E+00 | 8.66E-02 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 4.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-03 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.74E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.97E-04 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.68E-03 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.28E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-02 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.35E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.62E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-01 | 1.60E-02 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 6.07E-03 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.65E-01 | 6.69E-02 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.87E-01 | 1.26E-01 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 5.77E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.07E-02 | 0.00E+00 | 4.38E-02 | 0.00E+00 | 1.68E-01 | 6.64E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.65E-04 | 0.00E+00 | 5.74E-03 | 0.00E+00 | 7.02E-04 | 2.52E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.52E-02 | 0.00E+00 | 3.64E-02 | 0.00E+00 | 2.34E-01 | 2.78E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.00E-03 | 0.00E+00 | 4.96E-02 | 0.00E+00 | 1.45E-01 | 5.25E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.03E-03 | 0.00E+00 | 2.15E-02 | 0.00E+00 | 1.87E-01 | 2.40E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.08E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-01 | 6.64E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.25E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.45E-04 | 2.52E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.46E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.82E-01 | 2.78E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.94E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-01 | 5.25E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.04E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.40E-02 | 1.45E-03 |

**Table E3-57**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 5.77E-01 | 5.77E-01 | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 6.35E-02 | 6.35E-02 | 2.27E-02 | 6.80E-02 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Chromium** | 8.47E-01 | 8.49E-01 | 2.66E+00 | 2.80E+00 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 9.94E-01 | 1.00E+00 | 1.63E+00 | 3.26E+00 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 4.66E-01 | 4.68E-01 | 3.44E-01 | 7.00E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | 5.77E-01 | 5.77E-01 | 4.33E-02 | 1.30E-01 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Blue Jay - mid** | **tPCB-med** | 1.02E+00 | 1.02E+00 | 4.67E-01 | 1.40E+00 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 1.30E-01 | 1.30E-01 | 2.27E-02 | 6.80E-02 | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Chromium** | 1.37E+00 | 1.37E+00 | 2.66E+00 | 2.80E+00 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | 1.64E+00 | 1.65E+00 | 1.63E+00 | 3.26E+00 | 1E+00 | 5E-01 | 1E+00 | 5E-01 |
| | **Vanadium** | 7.44E-01 | 7.46E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | 1.02E+00 | 1.02E+00 | 4.33E-02 | 1.30E-01 | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 3.64E+00 | 3.64E+00 | 4.67E-01 | 1.40E+00 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Mercury** | 5.13E-01 | 5.13E-01 | 2.27E-02 | 6.80E-02 | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| | **Chromium** | 4.45E+00 | 4.45E+00 | 2.66E+00 | 2.80E+00 | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Lead** | 5.41E+00 | 5.43E+00 | 1.63E+00 | 3.26E+00 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Vanadium** | 2.38E+00 | 2.39E+00 | 3.44E-01 | 7.00E-01 | **7E+00** | **3E+00** | **7E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 3.64E+00 | 3.64E+00 | 4.33E-02 | 1.30E-01 | **8E+01** | **3E+01** | **8E+01** | **3E+01** |
| **Shrew - 1** | **tPCB** | 2.42E+00 | 2.42E+00 | 2.30E-01 | 6.80E-01 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Mercury** | 3.15E-01 | 3.15E-01 | 7.50E-02 | 1.50E-01 | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Chromium** | 2.30E+00 | 2.30E+00 | 2.40E+00 | 2.82E+00 | 1E+00 | 8E-01 | 1E+00 | 8E-01 |
| | **Lead** | 2.82E+00 | 2.83E+00 | 4.70E+00 | 8.90E+00 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 1.23E+00 | 1.23E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| **Deer** | **tPCB** | 4.89E-02 | 4.89E-02 | 2.30E-01 | 6.80E-01 | 2E-01 | 7E-02 | 2E-01 | 7E-02 |
| | **Mercury** | 2.44E-03 | 2.47E-03 | 7.50E-02 | 1.50E-01 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Chromium** | 4.22E-02 | 4.34E-02 | 2.40E+00 | 2.82E+00 | 2E-02 | 1E-02 | 2E-02 | 2E-02 |
| | **Lead** | 1.68E-02 | 2.12E-02 | 4.70E+00 | 8.90E+00 | 4E-03 | 2E-03 | 5E-03 | 2E-03 |
| | **Vanadium** | 8.97E-03 | 1.01E-02 | 4.16E+00 | 8.31E+00 | 2E-03 | 1E-03 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | 3.50E-01 | 3.50E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 5E-01 | **2E+00** | 5E-01 |
| | **Mercury** | 7.46E-03 | 7.51E-03 | 7.50E-02 | 1.50E-01 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 5.32E-01 | 5.34E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 4.13E-01 | 4.21E-01 | 4.70E+00 | 8.90E+00 | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| | **Vanadium** | 4.29E-01 | 4.31E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 2.39E-01 | 2.39E-01 | 2.30E-01 | 6.80E-01 | 1E+00 | 4E-01 | 1E+00 | 4E-01 |
| | **Mercury** | 9.73E-03 | 9.76E-03 | 7.50E-02 | 1.50E-01 | 1E-01 | 6E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 3.14E-01 | 3.15E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 2.48E-01 | 2.54E-01 | 4.70E+00 | 8.90E+00 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 2.33E-01 | 2.35E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 2.15E-01 | 2.15E-01 | 2.30E-01 | 6.80E-01 | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Mercury** | 3.59E-03 | 3.63E-03 | 7.50E-02 | 1.50E-01 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 3.14E-01 | 3.16E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 2.27E-01 | 2.32E-01 | 4.70E+00 | 8.90E+00 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 2.49E-01 | 2.51E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-58**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **9.37E+00** | **2.42E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.62E+02** | **4.75E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **4.38E+01** | **1.81E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.10E+01** | **4.20E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **6.29E+01** | **1.29E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.24E+00** | **9.59E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.33E+01** | **7.40E+00** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **9.37E+00** | **2.42E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **9.37E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.62E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **4.38E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.10E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **6.29E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.24E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.33E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **9.37E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **9.37E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.62E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **4.38E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.10E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **6.29E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.24E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.33E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **9.37E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.62E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **4.38E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.10E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **6.29E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.24E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.33E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |

**Table E3-58**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-58**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-58**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-58**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 8.33E+01 | 8.67E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 8.33E+01 | 8.67E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-58**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| Carolina Wren - 2 - mid | tPCB-med | 3.21E-02 | 0.00E+00 | 0.00E+00 | 1.59E+00 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 8.18E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 1.54E+00 | 0.00E+00 | 0.00E+00 | 4.86E+00 | 0.00E+00 | 6.98E-01 | 0.00E+00 | 2.94E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 1.12E-01 | 0.00E+00 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.25E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 7.62E-01 | 0.00E+00 | 0.00E+00 | 3.45E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 2.72E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 1.44E-01 | 0.00E+00 | 0.00E+00 | 1.52E+00 | 0.00E+00 | 5.69E-02 | 0.00E+00 | 6.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 1.89E-03 | 0.00E+00 | 0.00E+00 | 1.32E-01 | 0.00E+00 | 4.35E-03 | 0.00E+00 | 1.47E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 5.35E-02 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 2.10E-02 | 0.00E+00 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Carolina wren - 2 - high | tPCB-high | 3.21E-02 | 0.00E+00 | 0.00E+00 | 1.59E+00 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 8.18E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hawk - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.89E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.13E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hawk - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.89E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 0.00E+00 | 5.61E-02 | 0.00E+00 | 1.17E-01 | 0.00E+00 | 4.27E-03 | 1.17E-01 | 0.00E+00 | 9.96E-03 | 0.00E+00 | 0.00E+00 | 1.62E-02 | 3.18E-02 | 0.00E+00 |
| | Barium | 0.00E+00 | 1.67E+00 | 0.00E+00 | 3.56E-01 | 0.00E+00 | 1.71E-02 | 3.56E-01 | 0.00E+00 | 4.86E-02 | 0.00E+00 | 0.00E+00 | 9.40E-01 | 8.28E-03 | 0.00E+00 |
| | Chromium | 0.00E+00 | 4.65E-02 | 0.00E+00 | 1.08E-01 | 0.00E+00 | 1.98E-02 | 1.08E-01 | 0.00E+00 | 1.86E-02 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 1.87E-03 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 7.38E-03 | 0.00E+00 | 2.53E-02 | 0.00E+00 | 4.95E-02 | 2.53E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.84E-04 | 0.00E+00 |
| | Lead | 0.00E+00 | 2.33E-03 | 0.00E+00 | 1.12E-01 | 0.00E+00 | 1.39E-03 | 1.12E-01 | 0.00E+00 | 8.74E-03 | 0.00E+00 | 0.00E+00 | 5.83E-03 | 1.95E-04 | 0.00E+00 |
| | Mercury | 0.00E+00 | 1.32E-03 | 0.00E+00 | 9.68E-03 | 0.00E+00 | 1.06E-04 | 9.68E-03 | 0.00E+00 | 3.15E-05 | 0.00E+00 | 0.00E+00 | 6.48E-04 | 1.49E-04 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 1.95E-03 | 0.00E+00 | 3.92E-02 | 0.00E+00 | 5.13E-04 | 3.92E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.13E-04 | 0.00E+00 |
| Shrew - 2 | tPCB | 0.00E+00 | 1.03E-01 | 0.00E+00 | 2.28E+00 | 0.00E+00 | 3.56E-02 | 9.73E-01 | 0.00E+00 | 4.48E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 3.07E+00 | 0.00E+00 | 6.96E+00 | 0.00E+00 | 1.42E-01 | 2.97E+00 | 0.00E+00 | 2.19E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 8.56E-02 | 0.00E+00 | 2.11E+00 | 0.00E+00 | 1.65E-01 | 8.99E-01 | 0.00E+00 | 8.37E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 1.36E-02 | 0.00E+00 | 4.95E-01 | 0.00E+00 | 4.13E-01 | 2.11E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 4.29E-03 | 0.00E+00 | 2.18E+00 | 0.00E+00 | 1.16E-02 | 9.31E-01 | 0.00E+00 | 3.93E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 2.43E-03 | 0.00E+00 | 1.89E-01 | 0.00E+00 | 8.88E-04 | 8.07E-02 | 0.00E+00 | 1.41E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 3.59E-03 | 0.00E+00 | 7.65E-01 | 0.00E+00 | 4.28E-03 | 3.27E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-58**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.20E-01 | 0.00E+00 | 4.23E-05 | 2.08E+00 | 8.50E-01 | 2.93E+00 | 2.93E+00 | 4.67E-01 | 1.40E+00 | **4E+00** | **1E+00** | **2E+00** | 6E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.54E+00 | 0.00E+00 | 3.27E-02 | 1.11E+01 | 4.47E+00 | 1.56E+01 | 1.56E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 3E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.49E+00 | 0.00E+00 | 4.86E-03 | 3.77E+00 | 1.37E+00 | 5.14E+00 | 5.14E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | 5E-01 | 5E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.75E-01 | 0.00E+00 | 3.29E-03 | 2.74E+00 | 1.03E+00 | 3.78E+00 | 3.78E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 1E-01 | 1E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.15E+00 | 0.00E+00 | 1.82E-02 | 3.73E+00 | 7.88E-01 | 4.51E+00 | 4.53E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | **1E+00** | 5E-01 | 2E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 | 0.00E+00 | 1.16E-04 | 2.13E-01 | 1.48E-01 | 3.61E-01 | 3.61E-01 | 2.27E-02 | 6.80E-02 | **9E+00** | **3E+00** | **7E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.95E-01 | 0.00E+00 | 4.62E-03 | 1.35E+00 | 4.04E-01 | 1.75E+00 | 1.76E+00 | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **1E+00** | 6E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.20E-01 | 0.00E+00 | 4.23E-05 | 2.08E+00 | 8.50E-01 | 2.93E+00 | 2.93E+00 | 4.33E-02 | 1.30E-01 | **5E+01** | **2E+01** | **2E+01** | **7E+00** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 2.10E+00 | 0.00E+00 | 4.28E-02 | 1.11E-02 | 8.93E-06 | 5.32E-01 | 2.11E+00 | 2.64E+00 | 2.64E+00 | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | **5E+00** | **2E+00** |
| | **Barium** | 0.00E+00 | 1.31E-01 | 0.00E+00 | 7.42E-01 | 2.17E-01 | 6.90E-03 | 3.13E+00 | 3.48E-01 | 3.48E+00 | 3.48E+00 | 2.08E+01 | 4.17E+01 | 2E-01 | 7E-02 | 2E-02 | 8E-03 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 2.00E-01 | 8.27E-02 | 1.03E-03 | 1.11E+00 | 1.77E-01 | 1.29E+00 | 1.29E+00 | 2.66E+00 | 2.80E+00 | 4E-01 | 4E-01 | 7E-02 | 6E-02 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 5.03E-02 | 1.92E-02 | 6.95E-04 | 1.14E+00 | 2.54E-01 | 1.39E+00 | 1.39E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 3E-02 | 3E-02 |
| | **Lead** | 0.00E+00 | 1.20E-02 | 0.00E+00 | 2.88E-01 | 5.89E-02 | 3.84E-03 | 7.16E-01 | 7.09E-02 | 7.87E-01 | 7.91E-01 | 1.63E+00 | 3.26E+00 | 4E-01 | 2E-01 | 4E-02 | 2E-02 |
| | **Mercury** | 0.00E+00 | 1.16E-02 | 0.00E+00 | 1.02E-02 | 4.38E-03 | 2.45E-05 | 1.18E-02 | 1.60E-02 | 2.78E-02 | 2.78E-02 | 2.27E-02 | 6.80E-02 | 5E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.06E-01 | 3.38E-02 | 9.75E-04 | 5.42E-01 | 1.28E-01 | 6.70E-01 | 6.71E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 4E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 2.10E+00 | 0.00E+00 | 4.28E-02 | 1.11E-02 | 8.93E-06 | 5.32E-01 | 2.11E+00 | 2.64E+00 | 2.64E+00 | 4.33E-02 | 1.30E-01 | **1E+01** | **4E+00** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.08E-01 | 1.69E-02 | 2.36E-02 | 0.00E+00 | 1.30E-05 | 3.27E-01 | 1.73E-01 | 5.00E-01 | 5.00E-01 | 2.30E-01 | 6.80E-01 | **1E+00** | 5E-01 | 8E-01 | 3E-01 |
| | **Barium** | 0.00E+00 | 6.77E-03 | 4.49E-02 | 4.10E-01 | 0.00E+00 | 1.00E-02 | 2.86E+00 | 1.00E+00 | 3.86E+00 | 3.87E+00 | 5.18E+01 | 1.21E+02 | 6E-02 | 2E-02 | 2E-02 | 8E-03 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 1.61E-02 | 1.10E-01 | 0.00E+00 | 1.49E-03 | 4.11E-01 | 2.76E-02 | 4.39E-01 | 4.40E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 1E-01 | 1E-02 | 1E-02 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 1.32E-03 | 2.77E-02 | 0.00E+00 | 1.01E-03 | 1.57E-01 | 8.33E-02 | 2.41E-01 | 2.42E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 2E-02 | 1E-02 | 8E-03 |
| | **Lead** | 0.00E+00 | 6.16E-04 | 4.08E-03 | 1.59E-01 | 0.00E+00 | 5.59E-03 | 3.95E-01 | 1.07E-02 | 4.05E-01 | 4.11E-01 | 4.70E+00 | 8.90E+00 | 8E-02 | 4E-02 | 2E-03 | 1E-03 |
| | **Mercury** | 0.00E+00 | 5.97E-04 | 4.52E-04 | 5.65E-03 | 0.00E+00 | 3.57E-05 | 2.65E-02 | 1.85E-03 | 2.83E-02 | 2.84E-02 | 7.50E-02 | 1.50E-01 | 4E-01 | 2E-01 | 2E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 1.07E-03 | 5.87E-02 | 0.00E+00 | 1.42E-03 | 1.48E-01 | 1.10E-02 | 1.59E-01 | 1.61E-01 | 4.16E+00 | 8.31E+00 | 4E-02 | 2E-02 | 3E-03 | 1E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 2.58E-01 | 2.68E-02 | 3.59E-02 | 9.28E-03 | 2.35E-05 | 3.47E+00 | 2.94E-01 | 3.77E+00 | 3.77E+00 | 2.30E-01 | 6.80E-01 | **2E+01** | **5E+00** | **1E+00** | 4E-01 |
| | **Barium** | 0.00E+00 | 1.61E-02 | 7.13E-02 | 6.23E-01 | 1.82E-01 | 1.82E-02 | 1.40E+01 | 2.70E-01 | 1.43E+01 | 1.43E+01 | 5.18E+01 | 1.21E+02 | 3E-01 | 1E-01 | 5E-03 | 2E-03 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 2.56E-02 | 1.68E-01 | 6.94E-02 | 2.70E-03 | 3.51E+00 | 1.06E-01 | 3.61E+00 | 3.62E+00 | 2.40E+00 | 2.82E+00 | **1E+00** | **1E+00** | 4E-02 | 4E-02 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 2.09E-03 | 4.22E-02 | 1.61E-02 | 1.83E-03 | 1.27E+00 | 4.70E-02 | 1.32E+00 | 1.32E+00 | 7.33E+00 | 1.00E+01 | 2E-01 | 1E-01 | 6E-03 | 5E-03 |
| | **Lead** | 0.00E+00 | 1.47E-03 | 6.48E-03 | 2.41E-01 | 4.95E-02 | 1.01E-02 | 3.41E+00 | 5.74E-02 | 3.47E+00 | 3.48E+00 | 4.70E+00 | 8.90E+00 | 7E-01 | 4E-01 | 1E-02 | 6E-03 |
| | **Mercury** | 0.00E+00 | 1.42E-03 | 7.19E-04 | 8.59E-03 | 3.68E-03 | 6.45E-05 | 2.82E-01 | 5.82E-03 | 2.88E-01 | 2.88E-01 | 7.50E-02 | 1.50E-01 | **4E+00** | **2E+00** | 8E-02 | 4E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 1.71E-03 | 8.93E-02 | 2.84E-02 | 2.57E-03 | 1.23E+00 | 4.16E-02 | 1.27E+00 | 1.27E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 1E-01 | 1E-02 | 5E-03 |

**Table E3-58**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Barium** | 7E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Vanadium** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **7E+01** | **2E+01** | **7E+01** | **2E+01** |
| **Hawk - mid** | **tPCB-med** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Barium** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **6E+01** | **2E+01** | **6E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 7E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| | **Mercury** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Cobalt** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| | **Mercury** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Vanadium** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-59**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **6.26E+00** | **2.42E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.39E+02** | **4.75E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.62E+01** | **1.81E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.03E+01** | **4.20E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **4.95E+01** | **1.29E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.38E+00** | **9.59E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.26E+01** | **7.40E+00** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **6.26E+00** | **2.42E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **6.26E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **1.39E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **2.62E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **1.03E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **4.95E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **2.38E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **2.26E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **6.26E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **6.26E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **1.39E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **2.62E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **1.03E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **4.95E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **2.38E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **2.26E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **6.26E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **1.39E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **2.62E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **1.03E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **4.95E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **2.38E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **2.26E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-59**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-59**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-59**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-59**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 8.33E+01 | 8.67E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 8.33E+01 | 8.67E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-59**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 3.21E-02 | 0.00E+00 | 0.00E+00 | 1.06E+00 | 0.00E+00 | 1.17E-01 | 0.00E+00 | 8.18E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.54E+00 | 0.00E+00 | 0.00E+00 | 4.15E+00 | 0.00E+00 | 5.96E-01 | 0.00E+00 | 2.94E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.12E-01 | 0.00E+00 | 0.00E+00 | 8.79E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.25E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 3.22E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 2.72E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.44E-01 | 0.00E+00 | 0.00E+00 | 1.20E+00 | 0.00E+00 | 4.48E-02 | 0.00E+00 | 6.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.89E-03 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 0.00E+00 | 4.62E-03 | 0.00E+00 | 1.47E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 5.35E-02 | 0.00E+00 | 0.00E+00 | 5.18E-01 | 0.00E+00 | 2.03E-02 | 0.00E+00 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 3.21E-02 | 0.00E+00 | 0.00E+00 | 1.06E+00 | 0.00E+00 | 1.17E-01 | 0.00E+00 | 8.18E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.92E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.46E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.37E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.92E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 3.79E-02 | 0.00E+00 | 7.75E-02 | 0.00E+00 | 2.86E-03 | 7.75E-02 | 0.00E+00 | 8.00E-03 | 0.00E+00 | 0.00E+00 | 1.62E-02 | 3.18E-02 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 1.42E+00 | 0.00E+00 | 3.04E-01 | 0.00E+00 | 1.46E-02 | 3.04E-01 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 9.40E-01 | 8.28E-03 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.78E-02 | 0.00E+00 | 6.45E-02 | 0.00E+00 | 1.98E-02 | 6.45E-02 | 0.00E+00 | 1.11E-02 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 1.87E-03 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 6.89E-03 | 0.00E+00 | 2.36E-02 | 0.00E+00 | 4.95E-02 | 2.36E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.84E-04 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.83E-03 | 0.00E+00 | 8.79E-02 | 0.00E+00 | 1.09E-03 | 8.79E-02 | 0.00E+00 | 6.88E-03 | 0.00E+00 | 0.00E+00 | 5.83E-03 | 1.95E-04 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.40E-03 | 0.00E+00 | 1.02E-02 | 0.00E+00 | 1.13E-04 | 1.02E-02 | 0.00E+00 | 3.34E-05 | 0.00E+00 | 0.00E+00 | 6.48E-04 | 1.49E-04 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.89E-03 | 0.00E+00 | 3.80E-02 | 0.00E+00 | 4.97E-04 | 3.80E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.13E-04 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 6.98E-02 | 0.00E+00 | 1.51E+00 | 0.00E+00 | 2.38E-02 | 6.46E-01 | 0.00E+00 | 3.60E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.62E+00 | 0.00E+00 | 5.94E+00 | 0.00E+00 | 1.21E-01 | 2.54E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.12E-02 | 0.00E+00 | 1.26E+00 | 0.00E+00 | 1.65E-01 | 5.38E-01 | 0.00E+00 | 5.01E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 1.27E-02 | 0.00E+00 | 4.62E-01 | 0.00E+00 | 4.13E-01 | 1.97E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 3.38E-03 | 0.00E+00 | 1.72E+00 | 0.00E+00 | 9.13E-03 | 7.33E-01 | 0.00E+00 | 3.09E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 2.58E-03 | 0.00E+00 | 1.99E-01 | 0.00E+00 | 9.42E-04 | 8.47E-02 | 0.00E+00 | 1.50E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 3.49E-03 | 0.00E+00 | 7.42E-01 | 0.00E+00 | 4.15E-03 | 3.17E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-59**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-01 | 0.00E+00 | 4.23E-05 | 1.39E+00 | 8.50E-01 | 2.24E+00 | 2.24E+00 | 4.67E-01 | 1.40E+00 | **3E+00** | 1E+00 | **2E+00** | 6E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.73E+00 | 0.00E+00 | 3.27E-02 | 9.47E+00 | 4.47E+00 | 1.39E+01 | 1.40E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 2E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.94E-01 | 0.00E+00 | 4.86E-03 | 2.58E+00 | 1.37E+00 | 3.95E+00 | 3.95E+00 | 2.66E+00 | 2.80E+00 | 1E+00 | 9E-01 | 5E-01 | 5E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.50E-01 | 0.00E+00 | 3.29E-03 | 2.70E+00 | 1.03E+00 | 3.73E+00 | 3.73E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 3E-01 | 1E-01 | 1E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E+00 | 0.00E+00 | 1.82E-02 | 2.93E+00 | 7.88E-01 | 3.72E+00 | 3.74E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 9E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.11E-02 | 0.00E+00 | 1.16E-04 | 2.24E-01 | 1.48E-01 | 3.73E-01 | 3.73E-01 | 2.27E-02 | 6.80E-02 | **1E+01** | **3E+00** | **7E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.71E-01 | 0.00E+00 | 4.62E-03 | 1.31E+00 | 4.04E-01 | 1.71E+00 | 1.72E+00 | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **1E+00** | 6E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-01 | 0.00E+00 | 4.23E-05 | 1.39E+00 | 8.50E-01 | 2.24E+00 | 2.24E+00 | 4.33E-02 | 1.30E-01 | **3E+01** | **1E+01** | **2E+01** | **7E+00** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 2.10E+00 | 0.00E+00 | 2.86E-02 | 1.11E-02 | 8.93E-06 | 4.21E-01 | 2.11E+00 | 2.53E+00 | 2.53E+00 | 4.67E-01 | 1.40E+00 | 9E-01 | 3E-01 | **5E+00** | **2E+00** |
| | **Barium** | 0.00E+00 | 1.31E-01 | 0.00E+00 | 6.33E-01 | 2.17E-01 | 6.90E-03 | 2.67E+00 | 3.48E-01 | 3.02E+00 | 3.02E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 6E-02 | 2E-02 | 8E-03 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.20E-01 | 8.27E-02 | 1.03E-03 | 6.66E-01 | 1.77E-01 | 8.43E-01 | 8.44E-01 | 2.66E+00 | 2.80E+00 | 3E-01 | 2E-01 | 7E-02 | 6E-02 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 4.69E-02 | 1.92E-02 | 6.95E-04 | 1.14E+00 | 2.54E-01 | 1.39E+00 | 1.39E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 3E-02 | 3E-02 |
| | **Lead** | 0.00E+00 | 1.20E-02 | 0.00E+00 | 2.26E-01 | 5.89E-02 | 3.84E-03 | 5.64E-01 | 7.09E-02 | 6.34E-01 | 6.38E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 2E-01 | 4E-02 | 2E-02 |
| | **Mercury** | 0.00E+00 | 1.16E-02 | 0.00E+00 | 1.09E-02 | 4.38E-03 | 2.45E-05 | 1.25E-02 | 1.60E-02 | 2.85E-02 | 2.85E-02 | 2.27E-02 | 6.80E-02 | 6E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.03E-01 | 3.38E-02 | 9.75E-04 | 5.39E-01 | 1.28E-01 | 6.67E-01 | 6.68E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 4E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 2.10E+00 | 0.00E+00 | 2.86E-02 | 1.11E-02 | 8.93E-06 | 4.21E-01 | 2.11E+00 | 2.53E+00 | 2.53E+00 | 4.33E-02 | 1.30E-01 | **1E+01** | **3E+00** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.08E-01 | 1.69E-02 | 1.58E-02 | 0.00E+00 | 1.30E-05 | 2.20E-01 | 1.73E-01 | 3.93E-01 | 3.93E-01 | 2.30E-01 | 6.80E-01 | 1E+00 | 3E-01 | 8E-01 | 3E-01 |
| | **Barium** | 0.00E+00 | 6.77E-03 | 4.49E-02 | 3.50E-01 | 0.00E+00 | 1.00E-02 | 2.44E+00 | 1.00E+00 | 3.44E+00 | 3.45E+00 | 5.18E+01 | 1.21E+02 | 5E-02 | 2E-02 | 2E-02 | 8E-03 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 1.61E-02 | 6.61E-02 | 0.00E+00 | 1.49E-03 | 2.54E-01 | 2.76E-02 | 2.81E-01 | 2.83E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 9E-02 | 1E-02 | 1E-02 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 1.32E-03 | 2.59E-02 | 0.00E+00 | 1.01E-03 | 1.52E-01 | 8.33E-02 | 2.35E-01 | 2.36E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 2E-02 | 1E-02 | 8E-03 |
| | **Lead** | 0.00E+00 | 6.16E-04 | 4.08E-03 | 1.25E-01 | 0.00E+00 | 5.59E-03 | 3.10E-01 | 1.07E-02 | 3.21E-01 | 3.27E-01 | 4.70E+00 | 8.90E+00 | 7E-02 | 3E-02 | 2E-03 | 1E-03 |
| | **Mercury** | 0.00E+00 | 5.97E-04 | 4.52E-04 | 6.00E-03 | 0.00E+00 | 3.57E-05 | 2.79E-02 | 1.85E-03 | 2.97E-02 | 2.98E-02 | 7.50E-02 | 1.50E-01 | 4E-01 | 2E-01 | 2E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 1.07E-03 | 5.70E-02 | 0.00E+00 | 1.42E-03 | 1.44E-01 | 1.10E-02 | 1.55E-01 | 1.57E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 3E-03 | 1E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 2.58E-01 | 2.68E-02 | 2.40E-02 | 9.28E-03 | 2.35E-05 | 2.31E+00 | 2.94E-01 | 2.61E+00 | 2.61E+00 | 2.30E-01 | 6.80E-01 | **1E+01** | **3E+00** | **1E+00** | 4E-01 |
| | **Barium** | 0.00E+00 | 1.61E-02 | 7.13E-02 | 5.31E-01 | 1.82E-01 | 1.82E-02 | 1.19E+01 | 2.70E-01 | 1.22E+01 | 1.22E+01 | 5.18E+01 | 1.21E+02 | 2E-01 | 1E-01 | 5E-03 | 2E-03 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 2.56E-02 | 1.00E-01 | 6.94E-02 | 2.70E-03 | 2.16E+00 | 1.06E-01 | 2.27E+00 | 2.27E+00 | 2.40E+00 | 2.82E+00 | 9E-01 | 8E-01 | 4E-02 | 4E-02 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 2.09E-03 | 3.94E-02 | 1.61E-02 | 1.83E-03 | 1.22E+00 | 4.70E-02 | 1.27E+00 | 1.27E+00 | 7.33E+00 | 1.00E+01 | 2E-01 | 1E-01 | 6E-03 | 5E-03 |
| | **Lead** | 0.00E+00 | 1.47E-03 | 6.48E-03 | 1.90E-01 | 4.95E-02 | 1.01E-02 | 2.68E+00 | 5.74E-02 | 2.74E+00 | 2.75E+00 | 4.70E+00 | 8.90E+00 | 6E-01 | 3E-01 | 1E-02 | 6E-03 |
| | **Mercury** | 0.00E+00 | 1.42E-03 | 7.19E-04 | 9.12E-03 | 3.68E-03 | 6.45E-05 | 2.96E-01 | 5.82E-03 | 3.02E-01 | 3.02E-01 | 7.50E-02 | 1.50E-01 | **4E+00** | **2E+00** | 8E-02 | 4E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 1.71E-03 | 8.66E-02 | 2.84E-02 | 2.57E-03 | 1.19E+00 | 4.16E-02 | 1.23E+00 | 1.24E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 1E-01 | 1E-02 | 5E-03 |

**Table E3-59**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Mercury** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Vanadium** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Hawk - mid** | **tPCB-med** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **6E+01** | **2E+01** | **6E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Barium** | 7E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 7E-02 | 4E-02 | 7E-02 | 4E-02 |
| | **Mercury** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 9E-01 | 8E-01 | 9E-01 | 8E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Mercury** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Vanadium** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-60**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C4, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.89E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **4.60E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.17E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **8.91E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.22E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.89E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **4.60E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **1.17E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **8.91E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **2.22E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Barium** | **1.89E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Chromium** | **4.60E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Cobalt** | **1.17E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Lead** | **8.91E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Vanadium** | **2.22E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 2** | **tPCB-mink** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Barium** | **1.89E+02** | **4.75E+01** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Chromium** | **4.60E+01** | **1.81E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Cobalt** | **1.17E+01** | **4.20E+00** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Lead** | **8.91E+01** | **1.29E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Vanadium** | **2.22E+01** | **7.40E+00** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Raccoon - 1** | **tPCB** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Barium** | **1.89E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Chromium** | **4.60E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Cobalt** | **1.17E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Lead** | **8.91E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Vanadium** | **2.22E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| **Raccoon - 2** | **tPCB** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Barium** | **1.89E+02** | **4.75E+01** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Chromium** | **4.60E+01** | **1.81E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Cobalt** | **1.17E+01** | **4.20E+00** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Lead** | **8.91E+01** | **1.29E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Vanadium** | **2.22E+01** | **7.40E+00** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |

**Table E3-60**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C4, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| Spotted Sandpiper - 1 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| Spotted Sandpiper - 1 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| GBH - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| GBH - high | tPCB-high | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| Mink - 1 | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 2 | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| Raccoon - 2 | tPCB | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Barium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Chromium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Cobalt | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Lead | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Mercury | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Vanadium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table E3-60**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C4, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| **GBH - mid** | **tPCB-med** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **GBH - high** | **tPCB-high** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| **Mink - 1** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Mink - 2** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 1** | **tPCB** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 2** | **tPCB** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |

**Table E3-60**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C4, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | |
|---|---|---|---|---|---|
| | | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **GBH - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **GBH - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **Mink - 1** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Mink - 2** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 1** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 2** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |

**Table E3-60**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C4, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| **GBH - mid** | **tPCB-med** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **GBH - high** | **tPCB-high** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| **Mink - 1** | **tPCB-mink** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Mink - 2** | **tPCB-mink** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Raccoon - 1** | **tPCB** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Raccoon - 2** | **tPCB** | 1.92E+00 | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |

**Table E3-60**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C4, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 8.67E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.45E-01 | 4.06E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.86E+00 | 1.38E+01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.69E-01 | 3.76E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.65E-01 | 8.94E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 9.16E-01 | 5.25E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.78E-02 | 4.82E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.88E-01 | 1.24E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 8.67E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.45E-01 | 4.06E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 8.67E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 8.67E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 7.23E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 8.67E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 7.23E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.52E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.24E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.26E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.21E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 8.67E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 9.44E-02 | 0.00E+00 | 1.22E-01 | 0.00E+00 | 4.47E-03 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.94E+00 | 0.00E+00 | 4.15E-01 | 0.00E+00 | 1.99E-02 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.88E-02 | 0.00E+00 | 1.13E-01 | 0.00E+00 | 1.98E-02 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.85E-03 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 4.95E-02 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 3.30E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 1.97E-03 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.14E-03 | 0.00E+00 | 1.45E-02 | 0.00E+00 | 1.72E-04 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.86E-03 | 0.00E+00 | 3.73E-02 | 0.00E+00 | 4.89E-04 |
| **Raccoon - 2** | **tPCB** | 8.67E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.33E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.93E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.11E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-60**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C4, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-01 | 3.88E-02 | 2.66E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 7.61E-01 | 2.06E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.37E-01 | 2.90E-01 | 3.06E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 6.73E-02 | 2.07E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E+00 | 2.07E-01 | 1.14E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-02 | 1.54E-02 | 7.31E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.56E-01 | 1.19E-01 | 2.91E-03 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-01 | 3.88E-02 | 2.66E-05 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.26E-02 | 0.00E+00 | 0.00E+00 | 8.17E-03 | 8.91E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-01 | 0.00E+00 | 8.52E-03 | 7.05E-06 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 7.01E-02 | 0.00E+00 | 0.00E+00 | 4.75E-01 | 2.32E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.93E-01 | 0.00E+00 | 1.67E-01 | 5.45E-03 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.42E-02 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 5.23E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-01 | 0.00E+00 | 6.37E-02 | 8.10E-04 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 5.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 0.00E+00 | 1.48E-02 | 5.49E-04 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.53E-02 | 0.00E+00 | 0.00E+00 | 2.94E-03 | 5.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.57E-02 | 0.00E+00 | 4.54E-02 | 3.03E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 6.31E-05 | 0.00E+00 | 0.00E+00 | 3.27E-04 | 4.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.96E-03 | 0.00E+00 | 3.38E-03 | 1.94E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 5.97E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.41E-03 | 0.00E+00 | 2.61E-02 | 7.70E-04 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.26E-02 | 0.00E+00 | 0.00E+00 | 8.17E-03 | 8.91E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-01 | 0.00E+00 | 8.52E-03 | 7.05E-06 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 1.56E-01 | 0.00E+00 | 0.00E+00 | 2.07E-02 | 0.00E+00 | 0.00E+00 | 4.18E-01 | 0.00E+00 | 2.70E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 1.56E-01 | 0.00E+00 | 0.00E+00 | 2.07E-02 | 0.00E+00 | 0.00E+00 | 4.18E-01 | 0.00E+00 | 2.70E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 8.66E-01 | 0.00E+00 | 0.00E+00 | 1.20E+00 | 0.00E+00 | 0.00E+00 | 4.63E-01 | 0.00E+00 | 7.17E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.99E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.11E-01 | 0.00E+00 | 2.57E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 2.11E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.89E-01 | 0.00E+00 | 0.00E+00 | 7.44E-03 | 0.00E+00 | 0.00E+00 | 2.92E-03 | 0.00E+00 | 6.52E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 7.79E-04 | 0.00E+00 | 0.00E+00 | 8.27E-04 | 0.00E+00 | 0.00E+00 | 1.40E-03 | 0.00E+00 | 7.23E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 0.00E+00 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.13E-02 | 0.00E+00 | 0.00E+00 | 9.18E-03 | 0.00E+00 | 0.00E+00 | 1.71E+00 | 0.00E+00 | 3.11E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.13E-02 | 0.00E+00 | 0.00E+00 | 9.18E-03 | 0.00E+00 | 0.00E+00 | 1.71E+00 | 0.00E+00 | 3.11E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.18E-01 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 0.00E+00 | 1.90E+00 | 0.00E+00 | 8.28E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.08E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 4.56E-01 | 0.00E+00 | 2.97E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.43E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 2.58E-02 | 0.00E+00 | 0.00E+00 | 3.31E-03 | 0.00E+00 | 0.00E+00 | 1.19E-02 | 0.00E+00 | 7.53E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.06E-04 | 0.00E+00 | 0.00E+00 | 3.67E-04 | 0.00E+00 | 0.00E+00 | 5.72E-03 | 0.00E+00 | 8.34E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 5.05E-02 | 0.00E+00 | 1.98E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| **Raccoon - 1** | **tPCB** | 1.22E-01 | 0.00E+00 | 1.02E-02 | 0.00E+00 | 0.00E+00 | 1.62E-02 | 3.18E-02 | 0.00E+00 | 0.00E+00 | 1.08E-01 | 1.69E-02 | 2.47E-02 | 0.00E+00 | 1.30E-05 |
| | **Barium** | 4.15E-01 | 0.00E+00 | 5.66E-02 | 0.00E+00 | 0.00E+00 | 9.40E-01 | 8.28E-03 | 0.00E+00 | 0.00E+00 | 6.77E-03 | 4.49E-02 | 4.77E-01 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | 1.13E-01 | 0.00E+00 | 1.96E-02 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 1.87E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.61E-02 | 1.16E-01 | 0.00E+00 | 1.49E-03 |
| | **Cobalt** | 2.69E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.84E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.32E-03 | 2.95E-02 | 0.00E+00 | 1.01E-03 |
| | **Lead** | 1.58E-01 | 0.00E+00 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 5.83E-03 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 6.16E-04 | 4.08E-03 | 2.25E-01 | 0.00E+00 | 5.59E-03 |
| | **Mercury** | 1.45E-02 | 0.00E+00 | 5.09E-05 | 0.00E+00 | 0.00E+00 | 6.48E-04 | 1.49E-04 | 0.00E+00 | 0.00E+00 | 5.97E-04 | 4.52E-04 | 9.15E-03 | 0.00E+00 | 3.57E-05 |
| | **Vanadium** | 3.73E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.13E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.07E-03 | 5.60E-02 | 0.00E+00 | 1.42E-03 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 3.66E-02 | 7.76E-02 | 8.88E-02 | 1.62E-02 | 3.32E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.75E-02 | 0.00E+00 | 6.10E-03 | 1.30E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.03E-01 | 3.49E-02 | 1.32E-01 | 9.40E-01 | 8.66E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 | 0.00E+00 | 1.20E-01 | 1.00E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 7.01E-02 | 5.14E-03 | 8.01E-02 | 4.84E-03 | 1.95E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.44E-02 | 0.00E+00 | 4.56E-02 | 1.49E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 7.96E-02 | 4.21E-03 | 2.47E-02 | 6.97E-02 | 1.92E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.27E-03 | 0.00E+00 | 1.06E-02 | 1.01E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.44E-02 | 8.28E-03 | 4.68E-02 | 5.83E-03 | 2.04E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.63E-02 | 0.00E+00 | 3.25E-02 | 5.59E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.83E-04 | 7.72E-04 | 1.08E-03 | 6.48E-04 | 1.56E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-03 | 0.00E+00 | 2.42E-03 | 3.57E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 3.19E-02 | 2.60E-03 | 1.43E-02 | 4.84E-03 | 2.22E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.30E-03 | 0.00E+00 | 1.87E-02 | 1.42E-03 |

**Table E3-60**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C4, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.21E+00 | 2.83E-01 | 4.50E+00 | 4.50E+00 | 4.67E-01 | 1.40E+00 | **9E+00** | **3E+00** | 6E-01 | 2E-01 | **1E+01** | **3E+00** | **1E+01** |
| | **Barium** | 1.68E+01 | 4.62E+00 | 2.14E+01 | 2.14E+01 | 2.08E+01 | 4.17E+01 | 8E-01 | 4E-01 | 2E-01 | 1E-01 | 1E+00 | 5E-01 | 1E+00 |
| | **Chromium** | 4.49E+00 | 8.59E-01 | 5.35E+00 | 5.36E+00 | 2.66E+00 | 2.80E+00 | **2E+00** | **2E+00** | 3E-01 | 3E-01 | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 1.08E+00 | 5.33E-01 | 1.61E+00 | 1.62E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 7E-02 | 7E-02 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 6.68E+00 | 1.12E+00 | 7.80E+00 | 7.81E+00 | 1.63E+00 | 3.26E+00 | **4E+00** | **2E+00** | 7E-01 | 3E-01 | **5E+00** | **2E+00** | **5E+00** |
| | **Mercury** | 5.40E-01 | 4.32E-02 | 5.83E-01 | 5.83E-01 | 2.27E-02 | 6.80E-02 | **2E+01** | **8E+00** | **2E+00** | 6E-01 | **3E+01** | **9E+00** | **3E+01** |
| | **Vanadium** | 1.59E+00 | 4.06E-01 | 2.00E+00 | 2.00E+00 | 3.44E-01 | 7.00E-01 | **5E+00** | **2E+00** | **1E+00** | 6E-01 | **6E+00** | **3E+00** | **6E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.21E+00 | 2.83E-01 | 4.50E+00 | 4.50E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **3E+01** | **7E+00** | **2E+00** | **1E+02** | **3E+01** | **1E+02** |
| **GBH - mid** | **tPCB-med** | 1.26E-02 | 9.07E+00 | 9.09E+00 | 9.09E+00 | 4.67E-01 | 1.40E+00 | 3E-02 | 9E-03 | **2E+01** | **6E+00** | **2E+01** | **6E+00** | **2E+01** |
| | **Barium** | 7.01E-02 | 3.36E+00 | 3.43E+00 | 3.43E+00 | 2.08E+01 | 4.17E+01 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 | 2E-01 |
| | **Chromium** | 2.42E-02 | 7.30E-01 | 7.55E-01 | 7.55E-01 | 2.66E+00 | 2.80E+00 | 9E-03 | 9E-03 | 3E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 2.75E-02 | 1.13E-01 | 1.41E-01 | 1.41E-01 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 1E-02 | 1E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 1.53E-02 | 1.39E-01 | 1.54E-01 | 1.57E-01 | 1.63E+00 | 3.26E+00 | 9E-03 | 5E-03 | 9E-02 | 4E-02 | 9E-02 | 5E-02 | 1E-01 |
| | **Mercury** | 6.31E-05 | 4.94E-02 | 4.94E-02 | 4.95E-02 | 2.27E-02 | 6.80E-02 | 3E-03 | 9E-04 | **2E+00** | 7E-01 | **2E+00** | 7E-01 | **2E+00** |
| | **Vanadium** | 1.10E-02 | 9.76E-02 | 1.09E-01 | 1.09E-01 | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 3E-01 | 1E-01 | 3E-01 | 2E-01 | 3E-01 |
| **GBH - high** | **tPCB-high** | 1.26E-02 | 9.07E+00 | 9.09E+00 | 9.09E+00 | 4.33E-02 | 1.30E-01 | 3E-01 | 1E-01 | **2E+02** | **7E+01** | **2E+02** | **7E+01** | **2E+02** |
| **Mink - 1** | **tPCB-mink** | 1.56E-01 | 7.09E-01 | 8.65E-01 | 8.65E-01 | 5.00E-02 | 1.00E-01 | **3E+00** | **2E+00** | **1E+01** | **7E+00** | **2E+01** | **9E+00** | **2E+01** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.56E-01 | 7.09E-01 | 8.65E-01 | 8.65E-01 | na | 5.00E-02 | **--** | **3E+00** | **--** | **1E+01** | **--** | **2E+01** | **--** |
| | **Barium** | 8.66E-01 | 2.38E+00 | 3.25E+00 | 3.26E+00 | 5.18E+01 | 1.21E+02 | 2E-02 | 7E-03 | 5E-02 | 2E-02 | 6E-02 | 3E-02 | 6E-02 |
| | **Chromium** | 2.99E-01 | 3.75E-01 | 6.74E-01 | 6.76E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 2E-01 | 1E-01 | 3E-01 | 2E-01 | 3E-01 |
| | **Cobalt** | 3.40E-01 | 3.11E-01 | 6.51E-01 | 6.52E-01 | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 | 7E-02 | 9E-02 |
| | **Lead** | 1.89E-01 | 7.56E-02 | 2.65E-01 | 2.72E-01 | 4.70E+00 | 8.90E+00 | 4E-02 | 2E-02 | 2E-02 | 8E-03 | 6E-02 | 3E-02 | 6E-02 |
| | **Mercury** | 7.79E-04 | 9.45E-03 | 1.02E-02 | 1.03E-02 | 7.50E-02 | 1.50E-01 | 1E-02 | 5E-03 | 1E-01 | 6E-02 | 1E-01 | 7E-02 | 1E-01 |
| | **Vanadium** | 1.36E-01 | 3.57E-02 | 1.72E-01 | 1.73E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 4E-03 | 4E-02 | 2E-02 | 4E-02 |
| **Mink - 2** | **tPCB-mink** | 2.13E-02 | 1.75E+00 | 1.78E+00 | 1.78E+00 | 5.00E-02 | 1.00E-01 | 4E-01 | 2E-01 | **4E+01** | **2E+01** | **4E+01** | **2E+01** | **4E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 2.13E-02 | 1.75E+00 | 1.78E+00 | 1.78E+00 | na | 5.00E-02 | **--** | 4E-01 | **--** | **4E+01** | **--** | **4E+01** | **--** |
| | **Barium** | 1.18E-01 | 2.55E+00 | 2.67E+00 | 2.68E+00 | 5.18E+01 | 1.21E+02 | 2E-03 | 1E-03 | 5E-02 | 2E-02 | 5E-02 | 2E-02 | 5E-02 |
| | **Chromium** | 4.08E-02 | 4.91E-01 | 5.32E-01 | 5.33E-01 | 2.40E+00 | 2.82E+00 | 2E-02 | 1E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 4.64E-02 | 8.81E-01 | 9.27E-01 | 9.28E-01 | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 |
| | **Lead** | 2.58E-02 | 2.60E-02 | 5.19E-02 | 5.86E-02 | 4.70E+00 | 8.90E+00 | 5E-03 | 3E-03 | 6E-03 | 3E-03 | 1E-02 | 6E-03 | 1E-02 |
| | **Mercury** | 1.06E-04 | 6.96E-03 | 7.07E-03 | 7.11E-03 | 7.50E-02 | 1.50E-01 | 1E-03 | 7E-04 | 9E-02 | 5E-02 | 9E-02 | 5E-02 | 9E-02 |
| | **Vanadium** | 1.85E-02 | 5.65E-02 | 7.50E-02 | 7.67E-02 | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 | 9E-03 | 2E-02 |
| **Raccoon - 1** | **tPCB** | 3.78E-01 | 1.73E-01 | 5.51E-01 | 5.51E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 6E-01 | 8E-01 | 3E-01 | **2E+00** | 8E-01 | **2E+00** |
| | **Barium** | 3.32E+00 | 1.00E+00 | 4.33E+00 | 4.34E+00 | 5.18E+01 | 1.21E+02 | 6E-02 | 3E-02 | 2E-02 | 8E-03 | 8E-02 | 4E-02 | 8E-02 |
| | **Chromium** | 4.31E-01 | 2.76E-02 | 4.58E-01 | 4.60E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 2E-01 | 1E-02 | 1E-02 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 1.63E-01 | 8.33E-02 | 2.46E-01 | 2.47E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 2E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 |
| | **Lead** | 5.59E-01 | 1.07E-02 | 5.69E-01 | 5.75E-01 | 4.70E+00 | 8.90E+00 | 1E-01 | 6E-02 | 2E-03 | 1E-03 | 1E-01 | 6E-02 | 1E-01 |
| | **Mercury** | 4.06E-02 | 1.85E-03 | 4.24E-02 | 4.24E-02 | 7.50E-02 | 1.50E-01 | 5E-01 | 3E-01 | 2E-02 | 1E-02 | 6E-01 | 3E-01 | 6E-01 |
| | **Vanadium** | 1.42E-01 | 1.10E-02 | 1.53E-01 | 1.54E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 3E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 |
| **Raccoon - 2** | **tPCB** | 3.66E-02 | 5.95E-01 | 6.32E-01 | 6.32E-01 | 2.30E-01 | 6.80E-01 | 2E-01 | 5E-02 | **3E+00** | 9E-01 | **3E+00** | 9E-01 | **3E+00** |
| | **Barium** | 2.03E-01 | 1.81E+00 | 2.02E+00 | 2.03E+00 | 5.18E+01 | 1.21E+02 | 4E-03 | 2E-03 | 4E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 |
| | **Chromium** | 7.01E-02 | 2.43E-01 | 3.13E-01 | 3.14E-01 | 2.40E+00 | 2.82E+00 | 3E-02 | 2E-02 | 1E-01 | 9E-02 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 7.96E-02 | 2.75E-01 | 3.54E-01 | 3.55E-01 | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 5E-02 | 4E-02 | 5E-02 |
| | **Lead** | 4.44E-02 | 1.42E-01 | 1.86E-01 | 1.92E-01 | 4.70E+00 | 8.90E+00 | 9E-03 | 5E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 |
| | **Mercury** | 1.83E-04 | 8.67E-03 | 8.86E-03 | 8.89E-03 | 7.50E-02 | 1.50E-01 | 2E-03 | 1E-03 | 1E-01 | 6E-02 | 1E-01 | 6E-02 | 1E-01 |
| | **Vanadium** | 3.19E-02 | 5.80E-02 | 8.99E-02 | 9.13E-02 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 1E-02 | 7E-03 | 2E-02 | 1E-02 | 2E-02 |

**Table E3-60**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C4, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients |
|---|---|---|
| | | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **3E+00** |
| | **Barium** | 5E-01 |
| | **Chromium** | **2E+00** |
| | **Cobalt** | 2E-01 |
| | **Lead** | **2E+00** |
| | **Mercury** | **9E+00** |
| | **Vanadium** | **3E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **3E+01** |
| **GBH - mid** | **tPCB-med** | **6E+00** |
| | **Barium** | 8E-02 |
| | **Chromium** | 3E-01 |
| | **Cobalt** | 2E-02 |
| | **Lead** | 5E-02 |
| | **Mercury** | 7E-01 |
| | **Vanadium** | 2E-01 |
| **GBH - high** | **tPCB-high** | **7E+01** |
| **Mink - 1** | **tPCB-mink** | **9E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2E+01** |
| | **Barium** | 3E-02 |
| | **Chromium** | 2E-01 |
| | **Cobalt** | 7E-02 |
| | **Lead** | 3E-02 |
| | **Mercury** | 7E-02 |
| | **Vanadium** | 2E-02 |
| **Mink - 2** | **tPCB-mink** | **2E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **4E+01** |
| | **Barium** | 2E-02 |
| | **Chromium** | 2E-01 |
| | **Cobalt** | 9E-02 |
| | **Lead** | 7E-03 |
| | **Mercury** | 5E-02 |
| | **Vanadium** | 9E-03 |
| **Raccoon - 1** | **tPCB** | 8E-01 |
| | **Barium** | 4E-02 |
| | **Chromium** | 2E-01 |
| | **Cobalt** | 2E-02 |
| | **Lead** | 6E-02 |
| | **Mercury** | 3E-01 |
| | **Vanadium** | 2E-02 |
| **Raccoon - 2** | **tPCB** | 9E-01 |
| | **Barium** | 2E-02 |
| | **Chromium** | 1E-01 |
| | **Cobalt** | 4E-02 |
| | **Lead** | 2E-02 |
| | **Mercury** | 6E-02 |
| | **Vanadium** | 1E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-61**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C4**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-61**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C4**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians |
| **Tree Swallow - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Tree Swallow - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 1 - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 2 - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Osprey - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Osprey - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Bat** | **tPCB** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Otter** | **tPCB-mink** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |

**Table E3-61**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C4**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Body Weight | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water |
| **Tree Swallow - mid** | **tPCB-med** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 5.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| | **Barium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 2.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 |
| | **Chromium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 |
| | **Cobalt** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 6.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 |
| | **Lead** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 |
| | **Mercury** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 7.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 |
| | **Vanadium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 |
| **Tree Swallow - high** | **tPCB-high** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 5.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.76E-02 | 2.66E-05 |
| | **Barium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E+00 | 2.06E-02 |
| | **Chromium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.80E-01 | 3.06E-03 |
| | **Cobalt** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-01 | 2.07E-03 |
| | **Lead** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.13E-01 | 1.14E-02 |
| | **Mercury** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.07E-02 | 0.00E+00 | 2.07E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.07E-02 | 7.31E-05 |
| | **Vanadium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.37E-01 | 2.91E-03 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.76E-02 | 2.66E-05 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E+00 | 0.00E+00 | 0.00E+00 | 7.63E-03 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E+00 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 0.00E+00 | 0.00E+00 | 5.70E-02 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 1.32E-02 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 4.07E-02 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.87E-02 | 0.00E+00 | 0.00E+00 | 3.02E-03 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 2.33E-02 | 1.88E-03 |
| **Kingfisher - 1 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E+00 | 0.00E+00 | 0.00E+00 | 7.63E-03 | 1.72E-05 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-01 | 0.00E+00 | 0.00E+00 | 2.84E+00 | 0.00E+00 | 3.03E-01 | 7.63E-03 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E+00 | 0.00E+00 | 0.00E+00 | 3.95E+00 | 0.00E+00 | 3.47E-01 | 1.50E-01 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.33E+00 | 0.00E+00 | 1.42E-01 | 5.70E-02 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.23E-02 | 1.32E-02 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-02 | 0.00E+00 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 3.25E-02 | 4.07E-02 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.69E-03 | 0.00E+00 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 8.12E-03 | 3.02E-03 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 1.28E-02 | 2.33E-02 | 1.88E-03 |
| **Kingfisher - 2 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-01 | 0.00E+00 | 0.00E+00 | 2.84E+00 | 0.00E+00 | 3.03E-01 | 7.63E-03 | 1.72E-05 |
| **Osprey - mid** | **tPCB-med** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.54E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| | **Barium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 |
| | **Chromium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 |
| | **Cobalt** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 |
| | **Lead** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 |
| | **Mercury** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.20E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 |
| | **Vanadium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 |
| **Osprey - high** | **tPCB-high** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.54E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| **Bat** | **tPCB** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 4.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 |
| | **Barium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 |
| | **Chromium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 |
| | **Cobalt** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 5.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 |
| | **Lead** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 |
| | **Mercury** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 5.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 |
| | **Vanadium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 |
| **Otter** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-01 | 8.54E-01 | 2.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-01 | 8.54E-01 | 2.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| | **Barium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 1.17E-01 | 3.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 |
| | **Chromium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-02 | 1.46E-02 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 |
| | **Cobalt** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E-03 | 3.49E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 |
| | **Lead** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.15E-03 | 1.64E-03 | 2.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 |
| | **Mercury** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 1.13E-02 | 1.90E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 |
| | **Vanadium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-02 | 1.14E-03 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 |

**Table E3-61**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C4**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 5.42E+00 | 5.42E+00 | 4.67E-01 | 1.40E+00 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 2.72E+00 | 2.75E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 3.21E+00 | 3.21E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 6.82E-02 | 7.07E-02 | 7.61E+00 | 7.80E+00 | 9E-03 | 9E-03 | 9E-03 | 9E-03 |
| | **Lead** | 1.62E-01 | 1.76E-01 | 1.63E+00 | 3.26E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | 7.70E-02 | 7.71E-02 | 2.27E-02 | 6.80E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 1.40E-01 | 1.44E-01 | 3.44E-01 | 7.00E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | 5.42E+00 | 5.42E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 5.50E-01 | 5.50E-01 | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 1.22E+01 | 1.22E+01 | 2.08E+01 | 4.17E+01 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Chromium** | 1.27E+00 | 1.27E+00 | 2.66E+00 | 2.80E+00 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Cobalt** | 9.26E-01 | 9.28E-01 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1.48E+00 | 1.49E+00 | 1.63E+00 | 3.26E+00 | 9E-01 | 5E-01 | 9E-01 | 5E-01 |
| | **Mercury** | 7.21E-02 | 7.21E-02 | 2.27E-02 | 6.80E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 6.92E-01 | 6.95E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 5.50E-01 | 5.50E-01 | 4.33E-02 | 1.30E-01 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | 3.75E+00 | 3.75E+00 | 4.67E-01 | 1.40E+00 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 5.34E+00 | 5.36E+00 | 2.08E+01 | 4.17E+01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 1.81E+00 | 1.81E+00 | 2.66E+00 | 2.80E+00 | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Cobalt** | 3.06E+00 | 3.06E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 3.67E-01 | 3.74E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | 3.17E-02 | 3.18E-02 | 2.27E-02 | 6.80E-02 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | 2.11E-01 | 2.12E-01 | 3.44E-01 | 7.00E-01 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 3.75E+00 | 3.75E+00 | 4.33E-02 | 1.30E-01 | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | 3.27E+00 | 3.27E+00 | 4.67E-01 | 1.40E+00 | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Barium** | 1.04E+01 | 1.04E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 1.57E+00 | 1.57E+00 | 2.66E+00 | 2.80E+00 | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 2.94E+00 | 2.94E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 4.19E-01 | 4.27E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 3.86E-02 | 3.87E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Vanadium** | 2.20E-01 | 2.22E-01 | 3.44E-01 | 7.00E-01 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 3.27E+00 | 3.27E+00 | 4.33E-02 | 1.30E-01 | **8E+01** | **3E+01** | **8E+01** | **3E+01** |
| **Osprey - mid** | **tPCB-med** | 3.54E+00 | 3.54E+00 | 4.67E-01 | 1.40E+00 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 1.04E+00 | 1.05E+00 | 2.08E+01 | 4.17E+01 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Chromium** | 3.22E-01 | 3.23E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 3.21E-02 | 3.28E-02 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 4E-03 | 4E-03 |
| | **Lead** | 3.86E-02 | 4.21E-02 | 1.63E+00 | 3.26E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 5.20E-02 | 5.20E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | 8.39E-02 | 8.48E-02 | 3.44E-01 | 7.00E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | 3.54E+00 | 3.54E+00 | 4.33E-02 | 1.30E-01 | **8E+01** | **3E+01** | **8E+01** | **3E+01** |
| **Bat** | **tPCB** | 4.00E+00 | 4.00E+00 | 2.30E-01 | 6.80E-01 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 2.01E+00 | 2.03E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.37E+00 | 2.37E+00 | 2.40E+00 | 2.82E+00 | 1E+00 | 8E-01 | 1E+00 | 8E-01 |
| | **Cobalt** | 5.03E-02 | 5.23E-02 | 7.33E+00 | 1.00E+01 | 7E-03 | 5E-03 | 7E-03 | 5E-03 |
| | **Lead** | 1.20E-01 | 1.30E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 5.69E-02 | 5.69E-02 | 7.50E-02 | 1.50E-01 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Vanadium** | 1.03E-01 | 1.06E-01 | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | 1.94E+00 | 1.94E+00 | 5.00E-02 | 1.00E-01 | **4E+01** | **2E+01** | **4E+01** | **2E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | 1.94E+00 | 1.94E+00 | na | 5.00E-02 | **--** | **4E+01** | **--** | **4E+01** |
| | **Barium** | 7.09E-01 | 7.19E-01 | 5.18E+01 | 1.21E+02 | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 2.07E-01 | 2.08E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Cobalt** | 2.13E-01 | 2.14E-01 | 7.33E+00 | 1.00E+01 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 3.24E-02 | 3.79E-02 | 4.70E+00 | 8.90E+00 | 7E-03 | 4E-03 | 8E-03 | 4E-03 |
| | **Mercury** | 2.55E-02 | 2.55E-02 | 7.50E-02 | 1.50E-01 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 3.34E-02 | 3.48E-02 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 8E-03 | 4E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-62**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **9.37E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **6.29E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **9.37E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Blue Jay - mid** | **tPCB-med** | **9.37E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **6.29E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **9.37E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **9.37E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **6.29E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **9.37E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Shrew - 1** | **tPCB** | **9.37E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **6.29E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **9.37E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **6.29E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **9.37E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **6.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **9.37E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **6.29E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **9.37E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.24E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **4.38E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **6.29E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.33E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-62**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-01 | 1.88E-05 | 2.20E-01 | 2.20E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-02 | 5.16E-05 | 5.24E-02 | 5.25E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 2.16E-03 | 1.20E+00 | 1.20E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E+00 | 8.08E-03 | 1.25E+00 | 1.26E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.57E-01 | 2.05E-03 | 4.74E-01 | 4.76E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-01 | 1.88E-05 | 2.20E-01 | 2.20E-01 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 2.01E-01 | 2.04E-05 | 9.92E-01 | 9.92E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 6.34E-04 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 4.80E-02 | 5.59E-05 | 1.50E-01 | 1.50E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 9.38E-01 | 2.34E-03 | 1.67E+00 | 1.68E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 1.35E+00 | 8.75E-03 | 3.31E+00 | 3.32E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 4.99E-01 | 2.22E-03 | 6.75E-01 | 6.77E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 2.01E-01 | 2.04E-05 | 9.92E-01 | 9.92E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 3.20E-01 | 4.23E-05 | 5.40E+00 | 5.40E+00 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 4.13E-03 | 2.04E-01 | 4.22E-01 | 0.00E+00 | 7.65E-02 | 1.16E-04 | 7.08E-01 | 7.08E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 1.49E+00 | 4.86E-03 | 4.54E+00 | 4.54E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 2.15E+00 | 1.82E-02 | 1.51E+01 | 1.52E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 7.95E-01 | 4.62E-03 | 1.88E+00 | 1.88E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 3.20E-01 | 4.23E-05 | 5.40E+00 | 5.40E+00 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.94E-03 | 3.13E-03 | 2.14E+00 | 1.47E+00 | 0.00E+00 | 3.59E-02 | 2.35E-05 | 3.65E+00 | 3.65E+00 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 1.23E-03 | 2.64E-01 | 1.82E-01 | 0.00E+00 | 8.59E-03 | 6.45E-05 | 4.57E-01 | 4.57E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 1.68E-01 | 2.70E-03 | 2.00E+00 | 2.00E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 2.41E-01 | 1.01E-02 | 9.49E+00 | 9.50E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 8.93E-02 | 2.57E-03 | 8.50E-01 | 8.52E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.77E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-03 | 1.03E-05 | 6.51E-03 | 6.52E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.57E-04 | 2.84E-05 | 1.53E-03 | 1.56E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-02 | 1.19E-03 | 4.80E-02 | 4.92E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-02 | 4.44E-03 | 2.00E-02 | 2.44E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.83E-03 | 1.13E-03 | 8.61E-03 | 9.74E-03 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.77E-01 | 2.39E-02 | 1.72E-05 | 4.01E-01 | 4.01E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-03 | 5.72E-03 | 4.73E-05 | 8.50E-03 | 8.55E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 1.12E-01 | 1.98E-03 | 3.90E-01 | 3.92E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 1.61E-01 | 7.40E-03 | 4.76E-01 | 4.83E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 5.94E-02 | 1.88E-03 | 4.30E-01 | 4.32E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.65E-03 | 0.00E+00 | 6.84E-02 | 0.00E+00 | 1.90E-01 | 9.93E-03 | 1.33E-05 | 2.70E-01 | 2.70E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 8.46E-03 | 0.00E+00 | 1.40E-03 | 2.38E-03 | 3.66E-05 | 1.26E-02 | 1.27E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 1.40E-01 | 4.65E-02 | 1.53E-03 | 2.32E-01 | 2.33E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 1.59E-01 | 6.67E-02 | 5.72E-03 | 4.02E-01 | 4.07E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 1.87E-01 | 2.47E-02 | 1.45E-03 | 2.27E-01 | 2.28E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.87E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-01 | 9.93E-03 | 1.33E-05 | 2.39E-01 | 2.39E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-03 | 2.38E-03 | 3.66E-05 | 4.17E-03 | 4.21E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 4.65E-02 | 1.53E-03 | 2.20E-01 | 2.21E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 6.67E-02 | 5.72E-03 | 2.58E-01 | 2.64E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.47E-02 | 1.45E-03 | 2.50E-01 | 2.51E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-62**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 5E-01 | 4E-01 | 5E-01 | 4E-01 |
| | **Lead** | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Vanadium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Blue Jay - mid** | **tPCB-med** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Chromium** | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Lead** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Blue Jay - high** | **tPCB-high** | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Mercury** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Lead** | **9E+00** | **5E+00** | **9E+00** | **5E+00** |
| | **Vanadium** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Shrew - 1** | **tPCB** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Mercury** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Chromium** | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 4E-03 | 2E-03 | 5E-03 | 3E-03 |
| | **Vanadium** | 2E-03 | 1E-03 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Lead** | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| | **Vanadium** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 1E+00 | 4E-01 | 1E+00 | 4E-01 |
| | **Mercury** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Chromium** | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Lead** | 5E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-63**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **6.26E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.95E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **6.26E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Blue Jay - mid** | **tPCB-med** | **6.26E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.95E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **6.26E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **6.26E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.95E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **6.26E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| **Shrew - 1** | **tPCB** | **6.26E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.95E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **6.26E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.95E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **6.26E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.95E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **6.26E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.95E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **6.26E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 |
| | **Mercury** | **2.38E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 |
| | **Chromium** | **2.62E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **4.95E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.26E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-63**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-01 | 1.88E-05 | 1.59E-01 | 1.59E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.67E-02 | 5.16E-05 | 5.51E-02 | 5.52E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.14E-01 | 2.16E-03 | 8.53E-01 | 8.55E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.72E-01 | 8.08E-03 | 9.86E-01 | 9.94E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 2.05E-03 | 4.61E-01 | 4.63E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-01 | 1.88E-05 | 1.59E-01 | 1.59E-01 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 0.00E+00 | 1.34E-01 | 2.04E-05 | 9.26E-01 | 9.26E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 6.34E-04 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 0.00E+00 | 5.09E-02 | 5.59E-05 | 1.53E-01 | 1.53E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 5.61E-01 | 2.34E-03 | 1.30E+00 | 1.30E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 0.00E+00 | 1.06E+00 | 8.75E-03 | 3.02E+00 | 3.03E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 4.84E-01 | 2.22E-03 | 6.60E-01 | 6.62E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 0.00E+00 | 1.34E-01 | 2.04E-05 | 9.26E-01 | 9.26E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 2.14E-01 | 4.23E-05 | 5.29E+00 | 5.29E+00 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 4.13E-03 | 2.04E-01 | 4.22E-01 | 0.00E+00 | 0.00E+00 | 8.11E-02 | 1.16E-04 | 7.13E-01 | 7.13E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 8.94E-01 | 4.86E-03 | 3.93E+00 | 3.94E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 1.69E+00 | 1.82E-02 | 1.47E+01 | 1.47E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 7.71E-01 | 4.62E-03 | 1.85E+00 | 1.86E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 2.14E-01 | 4.23E-05 | 5.29E+00 | 5.29E+00 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.94E-03 | 3.13E-03 | 2.14E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 2.40E-02 | 2.35E-05 | 3.64E+00 | 3.64E+00 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 1.23E-03 | 2.64E-01 | 1.82E-01 | 0.00E+00 | 0.00E+00 | 9.12E-03 | 6.45E-05 | 4.57E-01 | 4.57E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.70E-03 | 1.93E+00 | 1.93E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 1.01E-02 | 9.44E+00 | 9.45E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 0.00E+00 | 8.66E-02 | 2.57E-03 | 8.47E-01 | 8.50E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.77E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-03 | 1.03E-05 | 5.60E-03 | 5.61E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.97E-04 | 2.84E-05 | 1.57E-03 | 1.60E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.68E-03 | 1.19E-03 | 4.28E-02 | 4.40E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-02 | 4.44E-03 | 1.60E-02 | 2.05E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.62E-03 | 1.13E-03 | 8.41E-03 | 9.54E-03 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.77E-01 | 1.60E-02 | 1.72E-05 | 3.93E-01 | 3.93E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-03 | 6.07E-03 | 4.73E-05 | 8.85E-03 | 8.90E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 6.69E-02 | 1.98E-03 | 3.45E-01 | 3.47E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 1.26E-01 | 7.40E-03 | 4.42E-01 | 4.49E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 5.77E-02 | 1.88E-03 | 4.29E-01 | 4.31E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.65E-03 | 0.00E+00 | 6.84E-02 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 6.64E-03 | 1.33E-05 | 2.67E-01 | 2.67E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 8.46E-03 | 0.00E+00 | 0.00E+00 | 1.40E-03 | 2.52E-03 | 3.66E-05 | 1.28E-02 | 1.28E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.78E-02 | 1.53E-03 | 2.13E-01 | 2.14E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 5.25E-02 | 5.72E-03 | 3.87E-01 | 3.93E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 2.40E-02 | 1.45E-03 | 2.26E-01 | 2.27E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.87E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-01 | 6.64E-03 | 1.33E-05 | 2.36E-01 | 2.36E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-03 | 2.52E-03 | 3.66E-05 | 4.32E-03 | 4.35E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 2.78E-02 | 1.53E-03 | 2.01E-01 | 2.02E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 5.25E-02 | 5.72E-03 | 2.44E-01 | 2.50E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.40E-02 | 1.45E-03 | 2.49E-01 | 2.50E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-63**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Blue Jay - mid** | **tPCB-med** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Chromium** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Vanadium** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| **Blue Jay - high** | **tPCB-high** | **2E+01** | **7E+00** | **2E+01** | **7E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Mercury** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **9E+00** | **5E+00** | **9E+00** | **5E+00** |
| | **Vanadium** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Shrew - 1** | **tPCB** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Mercury** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 2E-02 | 8E-03 | 2E-02 | 8E-03 |
| | **Mercury** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Chromium** | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 3E-03 | 2E-03 | 4E-03 | 2E-03 |
| | **Vanadium** | 2E-03 | 1E-03 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 9E-02 | 5E-02 | 1E-01 | 5E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Mercury** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-64**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **9.37E+00** | **2.42E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.62E+02** | **4.75E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **4.38E+01** | **1.81E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.10E+01** | **4.20E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **6.29E+01** | **1.29E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.24E+00** | **9.59E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.33E+01** | **7.40E+00** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **9.37E+00** | **2.42E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **9.37E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **1.62E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **4.38E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **1.10E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **6.29E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **2.24E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **2.33E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **9.37E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **9.37E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **1.62E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **4.38E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **1.10E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **6.29E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **2.24E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **2.33E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **9.37E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **1.62E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **4.38E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **1.10E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **6.29E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **2.24E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **2.33E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-64**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Measured Tissue (mg/kg dry weight) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |

**Table E3-64**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 |
| | **Mercury** | 5.58E+00 | 3.21E-01 | 3.77E-02 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 2.00E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 |
| **Hawk - mid** | **tPCB-med** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 |
| | **Mercury** | 5.58E+00 | 3.21E-01 | 3.77E-02 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.10E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 |
| **Hawk - high** | **tPCB-high** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 |
| **Raccoon - 1** | **tPCB** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 |
| | **Mercury** | 5.58E+00 | 3.21E-01 | 3.77E-02 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 |
| **Shrew - 2** | **tPCB** | 4.52E+01 | 2.26E+01 | 9.60E-02 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.70E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 |
| | **Mercury** | 5.58E+00 | 3.21E-01 | 3.77E-02 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.70E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 |

**Table E3-64**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.88E-03 | 0.00E+00 | 0.00E+00 | 2.04E-01 | 0.00E+00 | 4.13E-03 | 0.00E+00 | 4.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 3.03E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 2.58E-04 | 1.21E-01 | 0.00E+00 | 9.04E-03 | 0.00E+00 | 0.00E+00 | 1.33E-02 |
| | **Barium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 |
| | **Chromium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| | **Cobalt** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 |
| | **Lead** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 |
| | **Mercury** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 1.50E-02 | 0.00E+00 | 1.01E-04 | 1.50E-02 | 0.00E+00 | 6.65E-05 | 0.00E+00 | 0.00E+00 | 6.63E-04 |
| | **Vanadium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| **Shrew - 2** | **tPCB** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.58E-03 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 2.15E-03 | 1.01E+00 | 0.00E+00 | 4.06E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 1.30E-03 | 0.00E+00 | 2.93E-01 | 0.00E+00 | 8.43E-04 | 1.25E-01 | 0.00E+00 | 2.99E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-64**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.20E-01 | 0.00E+00 | 4.23E-05 | 1.98E+00 | 3.43E+00 | 5.41E+00 | 5.41E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.54E+00 | 0.00E+00 | 3.27E-02 | 1.49E+01 | 1.88E+01 | 3.37E+01 | 3.37E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.49E+00 | 0.00E+00 | 4.86E-03 | 3.01E+00 | 1.54E+00 | 4.55E+00 | 4.56E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.75E-01 | 0.00E+00 | 3.29E-03 | 2.61E+00 | 1.19E+00 | 3.80E+00 | 3.80E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.15E+00 | 0.00E+00 | 1.82E-02 | 6.40E+00 | 8.90E+00 | 1.53E+01 | 1.53E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 | 0.00E+00 | 1.16E-04 | 2.85E-01 | 4.24E-01 | 7.08E-01 | 7.09E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.95E-01 | 0.00E+00 | 4.62E-03 | 1.16E+00 | 7.53E-01 | 1.92E+00 | 1.92E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.20E-01 | 0.00E+00 | 4.23E-05 | 1.98E+00 | 3.43E+00 | 5.41E+00 | 5.41E+00 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E+00 | 0.00E+00 | 4.28E-02 | 1.11E-02 | 8.93E-06 | 4.86E-01 | 1.75E+00 | 2.23E+00 | 2.23E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 7.42E-01 | 2.17E-01 | 6.90E-03 | 3.77E+00 | 3.20E-01 | 4.09E+00 | 4.10E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 2.00E-01 | 8.27E-02 | 1.03E-03 | 5.27E-01 | 1.77E-01 | 7.04E-01 | 7.05E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00 | 5.03E-02 | 1.92E-02 | 6.95E-04 | 1.14E+00 | 2.54E-01 | 1.39E+00 | 1.39E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.98E-03 | 0.00E+00 | 2.88E-01 | 5.89E-02 | 3.84E-03 | 6.58E-01 | 6.69E-02 | 7.25E-01 | 7.29E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 1.02E-02 | 4.38E-03 | 2.45E-05 | 1.35E-02 | 1.35E-02 | 2.70E-02 | 2.70E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.06E-01 | 3.38E-02 | 9.75E-04 | 5.42E-01 | 1.28E-01 | 6.70E-01 | 6.71E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E+00 | 0.00E+00 | 4.28E-02 | 1.11E-02 | 8.93E-06 | 4.86E-01 | 1.75E+00 | 2.23E+00 | 2.23E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 2.96E-02 | 0.00E+00 | 0.00E+00 | 8.93E-02 | 3.09E-02 | 2.36E-02 | 0.00E+00 | 1.30E-05 | 2.78E-01 | 1.63E-01 | 4.41E-01 | 4.41E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 4.10E-01 | 0.00E+00 | 1.00E-02 | 4.68E+00 | 7.44E-01 | 5.43E+00 | 5.44E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 1.10E-01 | 0.00E+00 | 1.49E-03 | 2.69E-01 | 2.69E-02 | 2.96E-01 | 2.98E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.77E-02 | 0.00E+00 | 1.01E-03 | 1.35E-01 | 8.34E-02 | 2.18E-01 | 2.19E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 1.59E-01 | 0.00E+00 | 5.59E-03 | 7.89E-01 | 1.55E-02 | 8.04E-01 | 8.10E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 4.34E-04 | 0.00E+00 | 0.00E+00 | 4.69E-04 | 8.30E-04 | 5.65E-03 | 0.00E+00 | 3.57E-05 | 3.65E-02 | 2.40E-03 | 3.89E-02 | 3.89E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 5.87E-02 | 0.00E+00 | 1.42E-03 | 1.20E-01 | 1.17E-02 | 1.32E-01 | 1.33E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-01 | 4.91E-02 | 3.59E-02 | 9.28E-03 | 2.35E-05 | 3.46E+00 | 2.71E-01 | 3.73E+00 | 3.73E+00 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-02 | 5.62E-02 | 6.23E-01 | 1.82E-01 | 1.82E-02 | 2.37E+01 | 2.51E-01 | 2.39E+01 | 2.39E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.31E-02 | 1.68E-01 | 6.94E-02 | 2.70E-03 | 1.87E+00 | 1.04E-01 | 1.97E+00 | 1.97E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 1.99E-03 | 4.22E-02 | 1.61E-02 | 1.83E-03 | 9.88E-01 | 4.69E-02 | 1.04E+00 | 1.04E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-04 | 5.27E-03 | 2.41E-01 | 4.95E-02 | 1.01E-02 | 8.93E+00 | 5.57E-02 | 8.99E+00 | 9.00E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-03 | 1.32E-03 | 8.59E-03 | 3.68E-03 | 6.45E-05 | 4.29E-01 | 6.12E-03 | 4.35E-01 | 4.35E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.07E-03 | 8.93E-02 | 2.84E-02 | 2.57E-03 | 8.40E-01 | 4.20E-02 | 8.82E-01 | 8.85E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-64**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **4E+00** | **1E+00** | **7E+00** | **2E+00** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 7E-01 | 4E-01 | 9E-01 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | **1E+00** | **1E+00** | 6E-01 | 5E-01 | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **4E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **5E+00** | **9E+00** | **5E+00** |
| | **Mercury** | **1E+01** | **4E+00** | **2E+01** | **6E+00** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Vanadium** | **3E+00** | **2E+00** | **2E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **5E+01** | **2E+01** | **8E+01** | **3E+01** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Hawk - mid** | **tPCB-med** | 1E+00 | 3E-01 | **4E+00** | **1E+00** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 2E-01 | 9E-02 | 2E-02 | 8E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 2E-01 | 2E-01 | 7E-02 | 6E-02 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 3E-02 | 3E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 4E-01 | 2E-01 | 4E-02 | 2E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | 6E-01 | 2E-01 | 6E-01 | 2E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | 4E-01 | 2E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **1E+01** | **4E+00** | **4E+01** | **1E+01** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | **1E+00** | 4E-01 | 7E-01 | 2E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-02 | 1E-02 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 2E-01 | 9E-02 | 3E-03 | 2E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Mercury** | 5E-01 | 2E-01 | 3E-02 | 2E-02 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+01** | **5E+00** | **1E+00** | 4E-01 | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Barium** | 5E-01 | 2E-01 | 5E-03 | 2E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 8E-01 | 7E-01 | 4E-02 | 4E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 6E-03 | 5E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 1E-02 | 6E-03 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **6E+00** | **3E+00** | 8E-02 | 4E-02 | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 1E-02 | 5E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-65**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **6.26E+00** | **2.42E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.39E+02** | **4.75E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.62E+01** | **1.81E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.03E+01** | **4.20E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **4.95E+01** | **1.29E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.38E+00** | **9.59E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.26E+01** | **7.40E+00** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **6.26E+00** | **2.42E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **6.26E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.39E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.62E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.03E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **4.95E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.38E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.26E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **6.26E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **6.26E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **1.39E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **2.62E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **1.03E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **4.95E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **2.38E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **2.26E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Shrew - 2** | **tPCB** | **6.26E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.39E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.62E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.03E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **4.95E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.38E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.26E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-65**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |

**Table E3-65**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-65**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.88E-03 | 0.00E+00 | 0.00E+00 | 2.04E-01 | 0.00E+00 | 4.13E-03 | 0.00E+00 | 4.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 3.03E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 2.58E-04 | 1.21E-01 | 0.00E+00 | 9.04E-03 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 2.96E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 7.06E-04 | 0.00E+00 | 1.50E-02 | 0.00E+00 | 1.01E-04 | 1.50E-02 | 0.00E+00 | 6.65E-05 | 0.00E+00 | 0.00E+00 | 6.63E-04 | 4.34E-04 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 5.58E-03 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 2.15E-03 | 1.01E+00 | 0.00E+00 | 4.06E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-03 | 0.00E+00 | 2.93E-01 | 0.00E+00 | 8.43E-04 | 1.25E-01 | 0.00E+00 | 2.99E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-65**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 2.14E-01 | 0.00E+00 | 4.23E-05 | 1.87E+00 | 3.43E+00 | 5.31E+00 | 5.31E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 4.73E+00 | 0.00E+00 | 3.27E-02 | 1.41E+01 | 1.88E+01 | 3.29E+01 | 3.29E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 8.94E-01 | 0.00E+00 | 4.86E-03 | 2.41E+00 | 1.54E+00 | 3.95E+00 | 3.96E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 3.50E-01 | 0.00E+00 | 3.29E-03 | 2.58E+00 | 1.19E+00 | 3.77E+00 | 3.78E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.69E+00 | 0.00E+00 | 1.82E-02 | 5.95E+00 | 8.90E+00 | 1.48E+01 | 1.49E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 8.11E-02 | 0.00E+00 | 1.16E-04 | 2.89E-01 | 4.24E-01 | 7.13E-01 | 7.13E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 7.71E-01 | 0.00E+00 | 4.62E-03 | 1.14E+00 | 7.53E-01 | 1.89E+00 | 1.90E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 2.14E-01 | 0.00E+00 | 4.23E-05 | 1.87E+00 | 3.43E+00 | 5.31E+00 | 5.31E+00 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 1.74E+00 | 0.00E+00 | 2.86E-02 | 1.11E-02 | 8.93E-06 | 4.72E-01 | 1.75E+00 | 2.22E+00 | 2.22E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 1.03E-01 | 0.00E+00 | 6.33E-01 | 2.17E-01 | 6.90E-03 | 3.66E+00 | 3.20E-01 | 3.98E+00 | 3.99E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 9.39E-02 | 0.00E+00 | 1.20E-01 | 8.27E-02 | 1.03E-03 | 4.47E-01 | 1.77E-01 | 6.23E-01 | 6.24E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 2.35E-01 | 0.00E+00 | 4.69E-02 | 1.92E-02 | 6.95E-04 | 1.14E+00 | 2.54E-01 | 1.39E+00 | 1.39E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 7.98E-03 | 0.00E+00 | 2.26E-01 | 5.89E-02 | 3.84E-03 | 5.97E-01 | 6.69E-02 | 6.64E-01 | 6.68E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 9.12E-03 | 0.00E+00 | 1.09E-02 | 4.38E-03 | 2.45E-05 | 1.41E-02 | 1.35E-02 | 2.76E-02 | 2.77E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 9.39E-02 | 0.00E+00 | 1.03E-01 | 3.38E-02 | 9.75E-04 | 5.39E-01 | 1.28E-01 | 6.67E-01 | 6.68E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 1.74E+00 | 0.00E+00 | 2.86E-02 | 1.11E-02 | 8.93E-06 | 4.72E-01 | 1.75E+00 | 2.22E+00 | 2.22E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 8.93E-02 | 3.09E-02 | 1.58E-02 | 0.00E+00 | 1.30E-05 | 2.70E-01 | 1.63E-01 | 4.33E-01 | 4.33E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 5.32E-03 | 3.54E-02 | 3.50E-01 | 0.00E+00 | 1.00E-02 | 4.62E+00 | 7.44E-01 | 5.37E+00 | 5.38E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 4.83E-03 | 1.45E-02 | 6.61E-02 | 0.00E+00 | 1.49E-03 | 2.25E-01 | 2.69E-02 | 2.52E-01 | 2.53E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 1.21E-02 | 1.25E-03 | 2.59E-02 | 0.00E+00 | 1.01E-03 | 1.33E-01 | 8.34E-02 | 2.16E-01 | 2.17E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 4.11E-04 | 3.32E-03 | 1.25E-01 | 0.00E+00 | 5.59E-03 | 7.55E-01 | 1.55E-02 | 7.71E-01 | 7.76E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 4.69E-04 | 8.30E-04 | 6.00E-03 | 0.00E+00 | 3.57E-05 | 3.68E-02 | 2.40E-03 | 3.92E-02 | 3.93E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 4.83E-03 | 1.30E-03 | 5.70E-02 | 0.00E+00 | 1.42E-03 | 1.18E-01 | 1.17E-02 | 1.30E-01 | 1.31E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 2.13E-01 | 4.91E-02 | 2.40E-02 | 9.28E-03 | 2.35E-05 | 3.45E+00 | 2.71E-01 | 3.72E+00 | 3.72E+00 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 1.27E-02 | 5.62E-02 | 5.31E-01 | 1.82E-01 | 1.82E-02 | 2.36E+01 | 2.51E-01 | 2.38E+01 | 2.38E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 1.15E-02 | 2.31E-02 | 1.00E-01 | 6.94E-02 | 2.70E-03 | 1.80E+00 | 1.04E-01 | 1.90E+00 | 1.91E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.88E-02 | 1.99E-03 | 3.94E-02 | 1.61E-02 | 1.83E-03 | 9.85E-01 | 4.69E-02 | 1.03E+00 | 1.03E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 9.79E-04 | 5.27E-03 | 1.90E-01 | 4.95E-02 | 1.01E-02 | 8.88E+00 | 5.57E-02 | 8.94E+00 | 8.95E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 1.12E-03 | 1.32E-03 | 9.12E-03 | 3.68E-03 | 6.45E-05 | 4.29E-01 | 6.12E-03 | 4.35E-01 | 4.35E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 1.15E-02 | 2.07E-03 | 8.66E-02 | 2.84E-02 | 2.57E-03 | 8.37E-01 | 4.20E-02 | 8.79E-01 | 8.82E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-65**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C4, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **4E+00** | **1E+00** | **7E+00** | **2E+00** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 7E-01 | 3E-01 | 9E-01 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 9E-01 | 9E-01 | 6E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **4E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **5E+00** | **9E+00** | **5E+00** |
| | **Mercury** | **1E+01** | **4E+00** | **2E+01** | **6E+00** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Vanadium** | **3E+00** | **2E+00** | **2E+00** | **1E+00** | **5E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **4E+01** | **1E+01** | **8E+01** | **3E+01** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Hawk - mid** | **tPCB-med** | 1E+00 | 3E-01 | **4E+00** | **1E+00** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 2E-01 | 9E-02 | 2E-02 | 8E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 2E-01 | 2E-01 | 7E-02 | 6E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 3E-02 | 3E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 4E-01 | 2E-01 | 4E-02 | 2E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | 6E-01 | 2E-01 | 6E-01 | 2E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | 4E-01 | 2E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **1E+01** | **4E+00** | **4E+01** | **1E+01** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | **1E+00** | 4E-01 | 7E-01 | 2E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 9E-02 | 8E-02 | 1E-02 | 1E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 2E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Mercury** | 5E-01 | 2E-01 | 3E-02 | 2E-02 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **1E+01** | **5E+00** | **1E+00** | 4E-01 | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Barium** | 5E-01 | 2E-01 | 5E-03 | 2E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 8E-01 | 6E-01 | 4E-02 | 4E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 6E-03 | 5E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 1E-02 | 6E-03 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **6E+00** | **3E+00** | 8E-02 | 4E-02 | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 1E-02 | 5E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-66**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C4, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.89E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **4.60E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.17E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **8.91E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.22E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.89E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **4.60E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **1.17E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **8.91E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **2.22E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Barium** | **1.89E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Chromium** | **4.60E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Cobalt** | **1.17E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Lead** | **8.91E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Vanadium** | **2.22E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 2** | **tPCB-mink** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Barium** | **1.89E+02** | **4.75E+01** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Chromium** | **4.60E+01** | **1.81E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Cobalt** | **1.17E+01** | **4.20E+00** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Lead** | **8.91E+01** | **1.29E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Vanadium** | **2.22E+01** | **7.40E+00** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Raccoon - 1** | **tPCB** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **1.89E+02** | **4.75E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **4.60E+01** | **1.81E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **1.17E+01** | **4.20E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **8.91E+01** | **1.29E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **2.22E+01** | **7.40E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Raccoon - 2** | **tPCB** | **9.81E+00** | **2.42E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Barium** | **1.89E+02** | **4.75E+01** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Chromium** | **4.60E+01** | **1.81E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Cobalt** | **1.17E+01** | **4.20E+00** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Lead** | **8.91E+01** | **1.29E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Vanadium** | **2.22E+01** | **7.40E+00** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |

**Table E3-66**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C4, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| **GBH - mid** | **tPCB-med** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **GBH - high** | **tPCB-high** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |

**Table E3-66**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C4, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.36E-01 | 4.02E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E+00 | 2.04E+01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 1.73E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.96E-01 | 5.06E-01 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 1.03E+01 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.07E-02 | 4.97E-01 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.28E-01 | 8.38E-01 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.36E-01 | 4.02E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.25E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 9.62E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 3.03E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 1.50E-02 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 4.46E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.92E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 8.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-66**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C4, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-01 | 3.88E-02 | 2.66E-05 | 4.18E+00 | 2.75E-01 | 4.45E+00 | 4.45E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 7.61E-01 | 2.06E-02 | 2.34E+01 | 6.10E+00 | 2.95E+01 | 2.95E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.37E-01 | 2.90E-01 | 3.06E-03 | 2.47E+00 | 6.34E-01 | 3.10E+00 | 3.10E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 6.73E-02 | 2.07E-03 | 6.93E-01 | 4.63E-01 | 1.16E+00 | 1.16E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E+00 | 2.07E-01 | 1.14E-02 | 1.17E+01 | 7.41E-01 | 1.25E+01 | 1.25E+01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-02 | 1.54E-02 | 7.31E-05 | 5.55E-01 | 3.60E-02 | 5.91E-01 | 5.91E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.56E-01 | 1.19E-01 | 2.91E-03 | 1.19E+00 | 3.46E-01 | 1.54E+00 | 1.54E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-01 | 3.88E-02 | 2.66E-05 | 4.18E+00 | 2.75E-01 | 4.45E+00 | 4.45E+00 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 0.00E+00 | 0.00E+00 | 6.69E-03 | 8.29E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-01 | 0.00E+00 | 8.52E-03 | 7.05E-06 | 1.12E-02 | 8.58E+00 | 8.59E+00 | 8.59E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 | 0.00E+00 | 0.00E+00 | 3.51E-01 | 2.45E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 1.67E-01 | 5.45E-03 | 7.65E-02 | 3.27E+00 | 3.35E+00 | 3.36E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-03 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 7.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 6.37E-02 | 8.10E-04 | 8.25E-03 | 9.47E-01 | 9.56E-01 | 9.57E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 7.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 1.48E-02 | 5.49E-04 | 2.75E-02 | 1.36E-01 | 1.64E-01 | 1.64E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.35E-03 | 0.00E+00 | 0.00E+00 | 5.78E-03 | 9.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 0.00E+00 | 4.54E-02 | 3.03E-03 | 9.35E-03 | 1.71E-01 | 1.80E-01 | 1.83E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.24E-05 | 0.00E+00 | 0.00E+00 | 3.35E-04 | 1.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.26E-03 | 0.00E+00 | 3.38E-03 | 1.94E-05 | 8.24E-05 | 1.33E-01 | 1.33E-01 | 1.33E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 1.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 2.61E-02 | 7.70E-04 | 1.10E-02 | 2.37E-01 | 2.48E-01 | 2.48E-01 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 0.00E+00 | 0.00E+00 | 6.69E-03 | 8.29E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-01 | 0.00E+00 | 8.52E-03 | 7.05E-06 | 1.12E-02 | 8.58E+00 | 8.59E+00 | 8.59E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 0.00E+00 | 0.00E+00 | 1.69E-02 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 0.00E+00 | 4.94E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.38E-01 | 7.58E-01 | 8.96E-01 | 8.96E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 0.00E+00 | 0.00E+00 | 1.69E-02 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 0.00E+00 | 4.94E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.38E-01 | 7.58E-01 | 8.96E-01 | 8.96E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.45E-01 | 0.00E+00 | 0.00E+00 | 8.87E-01 | 0.00E+00 | 0.00E+00 | 3.42E-01 | 0.00E+00 | 5.66E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 9.45E-01 | 1.80E+00 | 2.74E+00 | 2.75E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 2.32E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.02E-01 | 3.54E-01 | 4.56E-01 | 4.58E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 2.00E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 3.10E-01 | 6.50E-01 | 6.51E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 0.00E+00 | 0.00E+00 | 2.15E-02 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.16E-01 | 8.91E-02 | 2.05E-01 | 2.11E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-03 | 0.00E+00 | 0.00E+00 | 8.46E-04 | 0.00E+00 | 0.00E+00 | 1.89E-03 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 1.02E-03 | 1.60E-02 | 1.70E-02 | 1.71E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 0.00E+00 | 2.08E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 3.93E-02 | 1.75E-01 | 1.77E-01 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-02 | 0.00E+00 | 0.00E+00 | 7.52E-03 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 5.71E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.89E-02 | 1.08E+00 | 1.09E+00 | 1.09E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-02 | 0.00E+00 | 0.00E+00 | 7.52E-03 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 5.71E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.89E-02 | 1.08E+00 | 1.09E+00 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 3.94E-01 | 0.00E+00 | 0.00E+00 | 1.40E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.29E-01 | 1.90E+00 | 2.02E+00 | 2.04E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 4.73E-01 | 0.00E+00 | 2.68E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.39E-02 | 5.04E-01 | 5.18E-01 | 5.19E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.80E-01 | 9.27E-01 | 9.28E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 6.50E-03 | 0.00E+00 | 0.00E+00 | 8.80E-02 | 0.00E+00 | 6.11E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.58E-02 | 1.04E-01 | 1.20E-01 | 1.27E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-04 | 0.00E+00 | 0.00E+00 | 3.76E-04 | 0.00E+00 | 0.00E+00 | 7.74E-03 | 0.00E+00 | 1.53E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 1.39E-04 | 9.69E-03 | 9.83E-03 | 9.87E-03 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 5.05E-02 | 0.00E+00 | 2.40E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 5.66E-02 | 7.52E-02 | 7.69E-02 |
| **Raccoon - 1** | **tPCB** | 2.58E-04 | 1.21E-01 | 0.00E+00 | 9.04E-03 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 2.96E-02 | 0.00E+00 | 0.00E+00 | 8.93E-02 | 3.09E-02 | 2.47E-02 | 0.00E+00 | 1.30E-05 | 2.79E-01 | 1.63E-01 | 4.42E-01 | 4.42E-01 |
| | **Barium** | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 4.77E-01 | 0.00E+00 | 1.00E-02 | 4.75E+00 | 7.44E-01 | 5.50E+00 | 5.51E+00 |
| | **Chromium** | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 1.16E-01 | 0.00E+00 | 1.49E-03 | 2.75E-01 | 2.69E-02 | 3.02E-01 | 3.03E-01 |
| | **Cobalt** | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.95E-02 | 0.00E+00 | 1.01E-03 | 1.36E-01 | 8.34E-02 | 2.20E-01 | 2.21E-01 |
| | **Lead** | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 2.25E-01 | 0.00E+00 | 5.59E-03 | 8.55E-01 | 1.55E-02 | 8.70E-01 | 8.76E-01 |
| | **Mercury** | 1.01E-04 | 1.50E-02 | 0.00E+00 | 6.65E-05 | 0.00E+00 | 0.00E+00 | 6.63E-04 | 4.34E-04 | 0.00E+00 | 0.00E+00 | 4.69E-04 | 8.30E-04 | 9.15E-03 | 0.00E+00 | 3.57E-05 | 4.00E-02 | 2.40E-03 | 4.24E-02 | 4.24E-02 |
| | **Vanadium** | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 5.60E-02 | 0.00E+00 | 1.42E-03 | 1.17E-01 | 1.17E-02 | 1.29E-01 | 1.30E-01 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-02 | 2.14E-03 | 4.99E-02 | 1.33E-02 | 3.09E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-01 | 0.00E+00 | 6.10E-03 | 1.30E-05 | 3.24E-02 | 5.09E-01 | 5.41E-01 | 5.41E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-01 | 4.83E-02 | 1.19E-01 | 6.95E-01 | 9.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 1.20E-01 | 1.00E-02 | 2.21E-01 | 1.53E+00 | 1.76E+00 | 1.77E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-02 | 3.11E-03 | 4.68E-02 | 4.84E-03 | 2.81E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-02 | 0.00E+00 | 4.56E-02 | 1.49E-03 | 2.39E-02 | 2.01E-01 | 2.25E-01 | 2.26E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-02 | 3.58E-03 | 1.35E-02 | 6.97E-02 | 2.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-03 | 0.00E+00 | 1.06E-02 | 1.01E-03 | 7.96E-02 | 2.64E-01 | 3.43E-01 | 3.44E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-02 | 4.83E-03 | 1.56E-02 | 1.15E-02 | 3.38E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 3.25E-02 | 5.59E-03 | 2.71E-02 | 1.13E-01 | 1.40E-01 | 1.46E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-04 | 1.87E-04 | 1.02E-03 | 6.63E-04 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.32E-03 | 0.00E+00 | 2.42E-03 | 3.57E-05 | 2.39E-04 | 1.25E-02 | 1.28E-02 | 1.28E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 | 2.06E-03 | 6.56E-03 | 4.84E-03 | 7.33E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-03 | 0.00E+00 | 1.87E-02 | 1.42E-03 | 3.19E-02 | 5.35E-02 | 8.54E-02 | 8.68E-02 |

**Table E3-66**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C4, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **9E+00** | **3E+00** | 6E-01 | 2E-01 | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | **1E+00** | 6E-01 | 3E-01 | 1E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 9E-01 | 9E-01 | 2E-01 | 2E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 9E-02 | 9E-02 | 6E-02 | 6E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **7E+00** | **4E+00** | 5E-01 | 2E-01 | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **2E+01** | **8E+00** | **2E+00** | 5E-01 | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | 1E+00 | 5E-01 | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+02** | **3E+01** | **6E+00** | **2E+00** | **1E+02** | **3E+01** | **1E+02** | **3E+01** |
| **GBH - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 2E-02 | 8E-03 | **2E+01** | **6E+00** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 4E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 4E-01 | 3E-01 | 4E-01 | 3E-01 | 4E-01 | 3E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 1E-01 | 5E-02 | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 4E-03 | 1E-03 | **6E+00** | **2E+00** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 7E-01 | 3E-01 | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| **GBH - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | 3E-01 | 9E-02 | **2E+02** | **7E+01** | **2E+02** | **7E+01** | **2E+02** | **7E+01** |
| **Mink - 1** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | **3E+00** | **1E+00** | **2E+01** | **8E+00** | **2E+01** | **9E+00** | **2E+01** | **9E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | **3E+00** | **--** | **2E+01** | **--** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-02 | 8E-03 | 3E-02 | 1E-02 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 4E-02 | 4E-02 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 | 6E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 1E-02 | 7E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 5E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Mink - 2** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | 4E-01 | 2E-01 | **2E+01** | **1E+01** | **2E+01** | **1E+01** | **2E+01** | **1E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | 4E-01 | **--** | **2E+01** | **--** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 6E-03 | 5E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 2E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 2E-03 | 9E-04 | 1E-01 | 6E-02 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **1E+00** | 4E-01 | 7E-01 | 2E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-02 | 1E-02 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-01 | 1E-01 | 3E-03 | 2E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 5E-01 | 3E-01 | 3E-02 | 2E-02 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | 1E-01 | 5E-02 | **2E+00** | 7E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 4E-03 | 2E-03 | 3E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-02 | 8E-03 | 8E-02 | 7E-02 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 2E-02 | 1E-02 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 1E-02 | 6E-03 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-67**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C4, Subarea Soil - North**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **9.37E+00** | **2.42E+00** | 1.00E+01 | 1.03E-01 | NA | 1.03E-01 | 4.10E+00 | -- | 4.10E+00 | 2.80E+01 | 6.60E+01 | 1E-01 | 6E-02 | **--** | **--** | 1E-01 | 6E-02 |
| | **Mercury** | **2.24E+00** | **9.59E-01** | 8.00E-01 | 7.18E-03 | NA | 7.18E-03 | 2.30E-02 | -- | 2.30E-02 | 4.40E-01 | 8.00E-01 | 5E-02 | 3E-02 | **--** | **--** | 5E-02 | 3E-02 |
| **Mourning Dove - high** | **tPCB-high** | **9.37E+00** | **2.42E+00** | 1.00E+01 | 1.03E-01 | NA | 1.03E-01 | 4.10E+00 | -- | 4.10E+00 | 2.10E+00 | 4.50E+00 | **2E+00** | 9E-01 | **--** | **--** | **2E+00** | 9E-01 |
| **Blue Jay - mid** | **tPCB-med** | **9.37E+00** | **2.42E+00** | 1.00E+01 | 1.33E-01 | NA | 1.33E-01 | 5.31E+00 | -- | 5.31E+00 | 2.80E+01 | 6.60E+01 | 2E-01 | 8E-02 | **--** | **--** | 2E-01 | 8E-02 |
| | **Mercury** | **2.24E+00** | **9.59E-01** | 8.00E-01 | 1.07E-02 | NA | 1.07E-02 | 3.42E-02 | -- | 3.42E-02 | 4.40E-01 | 8.00E-01 | 8E-02 | 4E-02 | **--** | **--** | 8E-02 | 4E-02 |
| **Blue Jay - high** | **tPCB-high** | **9.37E+00** | **2.42E+00** | 1.00E+01 | 1.33E-01 | NA | 1.33E-01 | 5.31E+00 | -- | 5.31E+00 | 2.10E+00 | 4.50E+00 | **3E+00** | **1E+00** | **--** | **--** | **3E+00** | **1E+00** |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **9.37E+00** | **2.42E+00** | 1.00E+01 | 1.10E-01 | NA | 1.10E-01 | 4.38E+00 | -- | 4.38E+00 | 2.80E+01 | 6.60E+01 | 2E-01 | 7E-02 | **--** | **--** | 2E-01 | 7E-02 |
| | **Mercury** | **2.24E+00** | **9.59E-01** | 8.00E-01 | 9.76E-03 | NA | 9.76E-03 | 3.12E-02 | -- | 3.12E-02 | 4.40E-01 | 8.00E-01 | 7E-02 | 4E-02 | **--** | **--** | 7E-02 | 4E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **9.37E+00** | **2.42E+00** | 1.00E+01 | 1.10E-01 | NA | 1.10E-01 | 4.38E+00 | -- | 4.38E+00 | 2.10E+00 | 4.50E+00 | **2E+00** | 1E+00 | **--** | **--** | **2E+00** | 1E+00 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **9.37E+00** | **2.42E+00** | 1.00E+01 | 4.17E-02 | 1.70E-02 | 5.87E-02 | 1.67E+00 | 6.80E-01 | 2.35E+00 | 2.80E+01 | 6.60E+01 | 6E-02 | 3E-02 | 2E-02 | 1E-02 | 8E-02 | 4E-02 |
| | **Mercury** | **2.24E+00** | **9.59E-01** | 8.00E-01 | 4.26E-03 | 2.97E-03 | 7.23E-03 | 1.36E-02 | 9.50E-03 | 2.31E-02 | 4.40E-01 | 8.00E-01 | 3E-02 | 2E-02 | 2E-02 | 1E-02 | 5E-02 | 3E-02 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **9.37E+00** | **2.42E+00** | 1.00E+01 | 4.17E-02 | 1.70E-02 | 5.87E-02 | 1.67E+00 | 6.80E-01 | 2.35E+00 | 2.10E+00 | 4.50E+00 | 8E-01 | 4E-01 | 3E-01 | 2E-01 | **1E+00** | 5E-01 |
| **Hawk - mid** | **tPCB-med** | **9.37E+00** | **2.42E+00** | 1.00E+01 | 5.85E-01 | 2.32E+00 | 2.91E+00 | 2.34E+01 | 9.29E+01 | 1.16E+02 | 2.80E+01 | 6.60E+01 | 8E-01 | 4E-01 | **3E+00** | **1E+00** | **4E+00** | **2E+00** |
| | **Mercury** | **2.24E+00** | **9.59E-01** | 8.00E-01 | 1.30E-02 | 1.76E-02 | 3.05E-02 | 4.15E-02 | 5.63E-02 | 9.77E-02 | 4.40E-01 | 8.00E-01 | 9E-02 | 5E-02 | 1E-01 | 7E-02 | 2E-01 | 1E-01 |
| **Hawk - high** | **tPCB-high** | **9.37E+00** | **2.42E+00** | 1.00E+01 | 5.85E-01 | 2.32E+00 | 2.91E+00 | 2.34E+01 | 9.29E+01 | 1.16E+02 | 2.10E+00 | 4.50E+00 | **1E+01** | **5E+00** | **4E+01** | **2E+01** | **6E+01** | **3E+01** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-68**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C4, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **6.26E+00** | **2.42E+00** | 1.00E+01 | 6.92E-02 | NA | 6.92E-02 | 2.77E+00 | -- | 2.77E+00 | 2.80E+01 | 6.60E+01 | 1E-01 | 4E-02 | -- | -- | 1E-01 | 4E-02 |
| | **Mercury** | **2.38E+00** | **9.59E-01** | 8.00E-01 | 7.62E-03 | NA | 7.62E-03 | 2.44E-02 | -- | 2.44E-02 | 4.40E-01 | 8.00E-01 | 6E-02 | 3E-02 | -- | -- | 6E-02 | 3E-02 |
| **Mourning Dove - high** | **tPCB-high** | **6.26E+00** | **2.42E+00** | 1.00E+01 | 6.92E-02 | NA | 6.92E-02 | 2.77E+00 | -- | 2.77E+00 | 2.10E+00 | 4.50E+00 | **1E+00** | 6E-01 | -- | -- | **1E+00** | 6E-01 |
| **Blue Jay - mid** | **tPCB-med** | **6.26E+00** | **2.42E+00** | 1.00E+01 | 8.88E-02 | NA | 8.88E-02 | 3.55E+00 | -- | 3.55E+00 | 2.80E+01 | 6.60E+01 | 1E-01 | 5E-02 | -- | -- | 1E-01 | 5E-02 |
| | **Mercury** | **2.38E+00** | **9.59E-01** | 8.00E-01 | 1.13E-02 | NA | 1.13E-02 | 3.61E-02 | -- | 3.61E-02 | 4.40E-01 | 8.00E-01 | 8E-02 | 5E-02 | -- | -- | 8E-02 | 5E-02 |
| **Blue Jay - high** | **tPCB-high** | **6.26E+00** | **2.42E+00** | 1.00E+01 | 8.88E-02 | NA | 8.88E-02 | 3.55E+00 | -- | 3.55E+00 | 2.10E+00 | 4.50E+00 | **2E+00** | 8E-01 | -- | -- | **2E+00** | 8E-01 |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **6.26E+00** | **2.42E+00** | 1.00E+01 | 7.28E-02 | NA | 7.28E-02 | 2.91E+00 | -- | 2.91E+00 | 2.80E+01 | 6.60E+01 | 1E-01 | 4E-02 | -- | -- | 1E-01 | 4E-02 |
| | **Mercury** | **2.38E+00** | **9.59E-01** | 8.00E-01 | 1.03E-02 | NA | 1.03E-02 | 3.28E-02 | -- | 3.28E-02 | 4.40E-01 | 8.00E-01 | 7E-02 | 4E-02 | -- | -- | 7E-02 | 4E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **6.26E+00** | **2.42E+00** | 1.00E+01 | 7.28E-02 | NA | 7.28E-02 | 2.91E+00 | -- | 2.91E+00 | 2.10E+00 | 4.50E+00 | **1E+00** | 6E-01 | -- | -- | **1E+00** | 6E-01 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **6.26E+00** | **2.42E+00** | 1.00E+01 | 2.77E-02 | 1.70E-02 | 4.47E-02 | 1.11E+00 | 6.80E-01 | 1.79E+00 | 2.80E+01 | 6.60E+01 | 4E-02 | 2E-02 | 2E-02 | 1E-02 | 6E-02 | 3E-02 |
| | **Mercury** | **2.38E+00** | **9.59E-01** | 8.00E-01 | 4.49E-03 | 2.97E-03 | 7.45E-03 | 1.44E-02 | 9.50E-03 | 2.39E-02 | 4.40E-01 | 8.00E-01 | 3E-02 | 2E-02 | 2E-02 | 1E-02 | 5E-02 | 3E-02 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **6.26E+00** | **2.42E+00** | 1.00E+01 | 2.77E-02 | 1.70E-02 | 4.47E-02 | 1.11E+00 | 6.80E-01 | 1.79E+00 | 2.10E+00 | 4.50E+00 | 5E-01 | 2E-01 | 3E-01 | 2E-01 | 9E-01 | 4E-01 |
| **Hawk - mid** | **tPCB-med** | **6.26E+00** | **2.42E+00** | 1.00E+01 | 4.63E-01 | 2.32E+00 | 2.79E+00 | 1.85E+01 | 9.29E+01 | 1.11E+02 | 2.80E+01 | 6.60E+01 | 7E-01 | 3E-01 | **3E+00** | **1E+00** | **4E+00** | **2E+00** |
| | **Mercury** | **2.38E+00** | **9.59E-01** | 8.00E-01 | 1.38E-02 | 1.76E-02 | 3.13E-02 | 4.40E-02 | 5.63E-02 | 1.00E-01 | 4.40E-01 | 8.00E-01 | 1E-01 | 6E-02 | 1E-01 | 7E-02 | 2E-01 | 1E-01 |
| **Hawk - high** | **tPCB-high** | **6.26E+00** | **2.42E+00** | 1.00E+01 | 4.63E-01 | 2.32E+00 | 2.79E+00 | 1.85E+01 | 9.29E+01 | 1.11E+02 | 2.10E+00 | 4.50E+00 | **9E+00** | **4E+00** | **4E+01** | **2E+01** | **5E+01** | **2E+01** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-69**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C4, Aquatic and Subarea Soil - Riparian**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Tree Swallow - mid** | **tPCB-med** | **9.81E+00** | **2.42E+00** | 1.00E+01 | NA | 2.46E-01 | 2.46E-01 | -- | 9.84E+00 | 9.84E+00 | 2.80E+01 | 6.60E+01 | -- | -- | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | 8.00E-01 | NA | 1.59E-03 | 1.60E-03 | -- | 5.10E-03 | 5.11E-03 | 4.40E-01 | 8.00E-01 | -- | -- | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| **Tree Swallow - high** | **tPCB-high** | **9.81E+00** | **2.42E+00** | 1.00E+01 | NA | 2.46E-01 | 2.46E-01 | -- | 9.84E+00 | 9.84E+00 | 2.10E+00 | 4.50E+00 | -- | -- | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **9.81E+00** | **2.42E+00** | 1.00E+01 | 1.81E-01 | 1.22E-02 | 1.93E-01 | 7.24E+00 | 4.87E-01 | 7.73E+00 | 2.80E+01 | 6.60E+01 | 3E-01 | 1E-01 | 2E-02 | 7E-03 | 3E-01 | 1E-01 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | 8.00E-01 | 2.32E-02 | 1.86E-03 | 2.51E-02 | 7.43E-02 | 5.94E-03 | 8.03E-02 | 4.40E-01 | 8.00E-01 | 2E-01 | 9E-02 | 1E-02 | 7E-03 | 2E-01 | 1E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **9.81E+00** | **2.42E+00** | 1.00E+01 | 1.81E-01 | 1.22E-02 | 1.93E-01 | 7.24E+00 | 4.87E-01 | 7.73E+00 | 2.10E+00 | 4.50E+00 | **3E+00** | **2E+00** | 2E-01 | 1E-01 | **4E+00** | **2E+00** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **9.81E+00** | **2.42E+00** | 1.00E+01 | NA | 3.83E-01 | 3.83E-01 | -- | 1.53E+01 | 1.53E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | 8.00E-01 | NA | 6.19E-03 | 6.19E-03 | -- | 1.98E-02 | 1.98E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **9.81E+00** | **2.42E+00** | 1.00E+01 | NA | 3.83E-01 | 3.83E-01 | -- | 1.53E+01 | 1.53E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **7E+00** | **3E+00** | **7E+00** | **3E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **9.81E+00** | **2.42E+00** | 1.00E+01 | NA | 9.41E-01 | 9.41E-01 | -- | 3.76E+01 | 3.76E+01 | 2.80E+01 | 6.60E+01 | -- | -- | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | 8.00E-01 | NA | 3.58E-03 | 3.59E-03 | -- | 1.15E-02 | 1.15E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **9.81E+00** | **2.42E+00** | 1.00E+01 | NA | 9.41E-01 | 9.41E-01 | -- | 3.76E+01 | 3.76E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **9.81E+00** | **2.42E+00** | 1.00E+01 | NA | 7.60E-01 | 7.60E-01 | -- | 3.04E+01 | 3.04E+01 | 2.80E+01 | 6.60E+01 | -- | -- | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Mercury** | **3.63E+00** | **9.59E-01** | 8.00E-01 | NA | 4.31E-03 | 4.31E-03 | -- | 1.38E-02 | 1.38E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **9.81E+00** | **2.42E+00** | 1.00E+01 | NA | 7.60E-01 | 7.60E-01 | -- | 3.04E+01 | 3.04E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **1E+01** | **7E+00** | **1E+01** | **7E+00** |
| **GBH - mid** | **tPCB-med** | **9.81E+00** | **2.42E+00** | 1.00E+01 | 2.91E-02 | 2.09E+01 | 2.09E+01 | 1.16E+00 | 8.35E+02 | 8.36E+02 | 2.80E+01 | 6.60E+01 | 4E-02 | 2E-02 | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Mercury** | **3.63E+00** | **9.59E-01** | 8.00E-01 | 1.45E-04 | 1.14E-01 | 1.14E-01 | 4.64E-04 | 3.63E-01 | 3.64E-01 | 4.40E-01 | 8.00E-01 | 1E-03 | 6E-04 | 8E-01 | 5E-01 | 8E-01 | 5E-01 |
| **GBH - high** | **tPCB-high** | **9.81E+00** | **2.42E+00** | 1.00E+01 | 2.91E-02 | 2.09E+01 | 2.09E+01 | 1.16E+00 | 8.35E+02 | 8.36E+02 | 2.10E+00 | 4.50E+00 | 6E-01 | 3E-01 | **4E+02** | **2E+02** | **4E+02** | **2E+02** |
| **Osprey - mid** | **tPCB-med** | **9.81E+00** | **2.42E+00** | 1.00E+01 | NA | 6.08E+00 | 6.08E+00 | -- | 2.43E+02 | 2.43E+02 | 2.80E+01 | 6.60E+01 | -- | -- | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Mercury** | **3.63E+00** | **9.59E-01** | 8.00E-01 | NA | 2.85E-02 | 2.85E-02 | -- | 9.12E-02 | 9.13E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | **9.81E+00** | **2.42E+00** | 1.00E+01 | NA | 6.08E+00 | 6.08E+00 | -- | 2.43E+02 | 2.43E+02 | 2.10E+00 | 4.50E+00 | -- | -- | **1E+02** | **5E+01** | **1E+02** | **5E+01** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-70**

**Lower Trophic Level Terrestrial Risk Calculations For UAA**

**Anniston PCB Site, Anniston, Alabama**

| Media | Receptor Community | COPC | Soil EPC (mg/kg) | Toxicity Benchmarks[a] (mg/kg) | | Hazard Quotients | |
|---|---|---|---|---|---|---|---|
| | | | | NOAEL | LOAEL | NOAEL | LOAEL |
| Soil - Combined | **Terrestrial Plants** | **PCB** | 9.51E+00 | 4.00E+01 | NA | 2E-01 | -- |
| | | **Chromium** | 2.82E+01 | 1.00E+00 | NA | **3E+01** | -- |
| | | **Lead** | 4.53E+01 | 1.20E+02 | NA | 4E-01 | -- |
| | | **Mercury** | 2.19E+00 | 3.00E-01 | NA | **7E+00** | -- |
| | | **Vanadium** | 2.02E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 9.51E+00 | 3.60E+00 | 3.60E+01 | **3E+00** | 3E-01 |
| | | **Chromium** | 2.82E+01 | 4.00E-01 | NA | **7E+01** | -- |
| | | **Lead** | 4.53E+01 | 1.70E+03 | NA | 3E-02 | -- |
| | | **Mercury** | 2.19E+00 | 1.00E-01 | 0.23 | **2E+01** | **1E+01** |
| | | **Vanadium** | 2.02E+01 | NA | NA | -- | -- |
| Soil - Riparian | **Terrestrial Plants** | **PCB** | 1.02E+01 | 4.00E+01 | NA | 3E-01 | -- |
| | | **Chromium** | 2.75E+01 | 1.00E+00 | NA | **3E+01** | -- |
| | | **Lead** | 5.65E+01 | 1.20E+02 | NA | 5E-01 | -- |
| | | **Mercury** | 2.81E+00 | 3.00E-01 | NA | **9E+00** | -- |
| | | **Vanadium** | 2.02E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 1.02E+01 | 3.60E+00 | 3.60E+01 | **3E+00** | 3E-01 |
| | | **Chromium** | 2.75E+01 | 4.00E-01 | NA | **7E+01** | -- |
| | | **Lead** | 5.65E+01 | 1.70E+03 | NA | 3E-02 | -- |
| | | **Mercury** | 2.81E+00 | 1.00E-01 | 0.23 | **3E+01** | **1E+01** |
| | | **Vanadium** | 2.02E+01 | NA | NA | -- | -- |

**Notes:**
a = NOAELs represent chronic values and LOAELs represent acute values
COPC = constituent of potential concern
EPC - exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
NA = not applicable
NOAEL = no observed adverse effect level
OU = Operable Unit
PCB = total polychlorinated biphenyl
**Bold indicates hazard quotients greater than 1**

**Table E3-71**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-71**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | |
|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Tree Swallow - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Tree Swallow - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Osprey - mid** | **tPCB-med** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Osprey - high** | **tPCB-high** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Bat** | **tPCB** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Otter** | **tPCB-mink** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 6.04E-01 | 1.14E+00 | 2.02E+01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.98E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 3.30E-01 | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |

**Table E3-71**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.22E+01 | 8.06E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 2.63E-01 | 1.37E+00 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-71**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.98E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 1.98E+01 | 1.98E+01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.32E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 1.32E+00 | 1.35E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 4.42E+00 | 4.42E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 1.36E-01 | 1.38E-01 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 1.49E-01 | 1.64E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 3.55E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 3.55E-01 | 3.55E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 2.46E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 2.46E-01 | 2.49E-01 | 3.44E-01 | 7.00E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.98E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 1.98E+01 | 1.98E+01 | 4.33E-02 | 1.30E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 4.13E-01 | 0.00E+00 | 1.19E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-01 | 2.66E-05 | 1.25E+01 | 1.25E+01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 8.38E+00 | 0.00E+00 | 8.38E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.31E+00 | 2.06E-02 | 2.01E+01 | 2.01E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 5.27E-01 | 0.00E+00 | 5.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.38E-01 | 3.06E-03 | 1.59E+00 | 1.60E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 8.45E-01 | 0.00E+00 | 8.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.44E-01 | 2.07E-03 | 1.94E+00 | 1.94E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 2.15E+00 | 0.00E+00 | 2.15E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.70E-01 | 1.14E-02 | 5.27E+00 | 5.28E+00 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 4.47E-02 | 0.00E+00 | 3.99E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.44E-01 | 7.31E-05 | 5.87E-01 | 5.87E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 4.98E-01 | 0.00E+00 | 4.98E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.10E-01 | 2.91E-03 | 1.41E+00 | 1.41E+00 | 3.44E-01 | 7.00E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 4.13E-01 | 0.00E+00 | 1.19E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-01 | 2.66E-05 | 1.25E+01 | 1.25E+01 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+01 | 0.00E+00 | 0.00E+00 | 1.29E-02 | 1.72E-05 | 1.07E+01 | 1.07E+01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.53E+01 | 0.00E+00 | 0.00E+00 | 3.25E-01 | 1.33E-02 | 1.56E+01 | 1.56E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E+00 | 0.00E+00 | 0.00E+00 | 5.29E-02 | 1.98E-03 | 1.62E+00 | 1.62E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 2.40E-02 | 1.34E-03 | 3.07E+00 | 3.07E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-01 | 0.00E+00 | 0.00E+00 | 9.54E-02 | 7.40E-03 | 1.99E-01 | 2.07E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.89E-02 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 4.73E-05 | 1.13E-01 | 1.13E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-01 | 0.00E+00 | 0.00E+00 | 4.03E-02 | 1.88E-03 | 3.64E-01 | 3.66E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+01 | 0.00E+00 | 0.00E+00 | 1.29E-02 | 1.72E-05 | 1.07E+01 | 1.07E+01 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00 | 0.00E+00 | 8.15E+00 | 0.00E+00 | 2.79E-01 | 1.29E-02 | 1.72E-05 | 8.68E+00 | 8.68E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+01 | 0.00E+00 | 0.00E+00 | 1.16E+01 | 0.00E+00 | 9.55E-01 | 3.25E-01 | 1.33E-02 | 3.04E+01 | 3.04E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.85E-02 | 0.00E+00 | 0.00E+00 | 1.19E+00 | 0.00E+00 | 1.46E-01 | 5.29E-02 | 1.98E-03 | 1.43E+00 | 1.43E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 2.34E-02 | 2.40E-02 | 1.34E-03 | 2.96E+00 | 2.96E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.17E-01 | 0.00E+00 | 0.00E+00 | 7.90E-02 | 0.00E+00 | 9.38E-02 | 9.54E-02 | 7.40E-03 | 3.86E-01 | 3.93E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.79E-03 | 0.00E+00 | 0.00E+00 | 7.51E-02 | 0.00E+00 | 8.97E-03 | 1.41E-02 | 4.73E-05 | 1.06E-01 | 1.06E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.18E-02 | 0.00E+00 | 0.00E+00 | 2.46E-01 | 0.00E+00 | 1.82E-02 | 4.03E-02 | 1.88E-03 | 3.76E-01 | 3.78E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00 | 0.00E+00 | 8.15E+00 | 0.00E+00 | 2.79E-01 | 1.29E-02 | 1.72E-05 | 8.68E+00 | 8.68E+00 | 4.33E-02 | 1.30E-01 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.43E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 6.43E+00 | 6.43E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.15E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 2.15E+00 | 2.16E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.07E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 2.07E-01 | 2.08E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 4.00E-02 | 4.06E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.48E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 5.48E-02 | 5.82E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.31E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 8.31E-02 | 8.32E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.41E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 4.41E-02 | 4.49E-02 | 3.44E-01 | 7.00E-01 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.43E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 6.43E+00 | 6.43E+00 | 4.33E-02 | 1.30E-01 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.46E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 1.46E+01 | 1.46E+01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 9.75E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 9.75E-01 | 9.95E-01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 3.26E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 3.26E+00 | 3.26E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 1.00E-01 | 1.02E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 1.10E-01 | 1.21E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 2.62E-01 | 2.62E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.81E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 1.81E-01 | 1.84E-01 | 4.16E+00 | 8.31E+00 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E+00 | 2.53E+00 | 7.12E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 4.76E+00 | 4.76E+00 | 5.00E-02 | 1.00E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E+00 | 2.53E+00 | 7.12E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 4.76E+00 | 4.76E+00 | na | 5.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.10E-01 | 1.85E-01 | 1.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 1.71E+00 | 1.72E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.91E-02 | 2.05E-02 | 1.04E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 1.74E-01 | 1.75E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.47E-03 | 3.52E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.15E-01 | 2.16E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-02 | 5.91E-03 | 6.90E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 2.58E-02 | 3.12E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E-02 | 4.70E-02 | 6.56E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 7.33E-02 | 7.33E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-02 | 2.74E-03 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 3.47E-02 | 3.61E-02 | 4.16E+00 | 8.31E+00 |

**Table E3-71**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| | **Barium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 9E-02 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Vanadium** | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| **Tree Swallow - high** | **tPCB-high** | **5E+02** | **2E+02** | **5E+02** | **2E+02** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| | **Barium** | 1E+00 | 5E-01 | 1E+00 | 5E-01 |
| | **Chromium** | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Lead** | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Mercury** | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| | **Vanadium** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **3E+02** | **1E+02** | **3E+02** | **1E+02** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| | **Barium** | 7E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Chromium** | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Mercury** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | **2E+02** | **8E+01** | **2E+02** | **8E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | **2E+02** | **7E+01** | **2E+02** | **7E+01** |
| **Osprey - mid** | **tPCB-med** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Barium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Cobalt** | 5E-03 | 5E-03 | 5E-03 | 5E-03 |
| | **Lead** | 3E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| **Osprey - high** | **tPCB-high** | **1E+02** | **5E+01** | **1E+02** | **5E+01** |
| **Bat** | **tPCB** | **6E+01** | **2E+01** | **6E+01** | **2E+01** |
| | **Barium** | 2E-02 | 8E-03 | 2E-02 | 8E-03 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 1E-02 | 1E-02 | 1E-02 | 1E-02 |
| | **Lead** | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Vanadium** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Otter** | **tPCB-mink** | **1E+02** | **5E+01** | **1E+02** | **5E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | **--** | **1E+02** | **--** | **1E+02** |
| | **Barium** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 7E-02 | 6E-02 | 7E-02 | 6E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 5E-03 | 3E-03 | 7E-03 | 4E-03 |
| | **Mercury** | 1E+00 | 5E-01 | 1E+00 | 5E-01 |
| | **Vanadium** | 8E-03 | 4E-03 | 9E-03 | 4E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-72**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil |
| **Mourning Dove - mid** | **tPCB-med** | **9.51E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| **Mourning Dove - high** | **tPCB-high** | **9.51E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| **Blue Jay - mid** | **tPCB-med** | **9.51E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Blue Jay - high** | **tPCB-high** | **9.51E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **9.51E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **9.51E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Shrew - 1** | **tPCB** | **9.51E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 |
| **Deer** | **tPCB** | **9.51E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Weasel** | **tPCB** | **9.51E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 |
| **Fox - 1** | **tPCB** | **9.51E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 |
| **Fox - 2** | **tPCB** | **9.51E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 |

**Table E3-72**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioaccumulation Factors | Bioaccumulation Factors | | | Body Weight (kg) |
|---|---|---|---|---|---|---|
| | | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) |
| **Mourning Dove - mid** | **tPCB-med** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 |
| | **Mercury** | 5.00E-02 | 1.77E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.20E-01 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 1.20E-01 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 1.20E-01 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 |
| **Mourning Dove - high** | **tPCB-high** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 |
| **Blue Jay - mid** | **tPCB-med** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 |
| | **Mercury** | 5.00E-02 | 1.77E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 8.70E-02 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 8.70E-02 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 8.70E-02 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 |
| **Blue Jay - high** | **tPCB-high** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 |
| | **Mercury** | 5.00E-02 | 1.77E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 2.00E-02 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 2.00E-02 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 2.00E-02 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 |
| **Shrew - 1** | **tPCB** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 |
| | **Mercury** | 5.00E-02 | 1.77E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 1.70E-02 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 1.70E-02 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 1.70E-02 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 |
| **Deer** | **tPCB** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 |
| | **Mercury** | 5.00E-02 | 1.77E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 5.66E+01 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 5.66E+01 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 5.66E+01 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 |
| **Weasel** | **tPCB** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 |
| | **Mercury** | 5.00E-02 | 1.77E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 3.00E-01 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 3.00E-01 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 3.00E-01 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 |
| **Fox - 1** | **tPCB** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 |
| | **Mercury** | 5.00E-02 | 1.77E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 4.50E+00 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 4.50E+00 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 |
| **Fox - 2** | **tPCB** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 |
| | **Mercury** | 5.00E-02 | 1.77E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 9.87E-03 | 4.50E+00 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 4.50E+00 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 4.50E+00 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 |

**Table E3-72**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/ Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.81E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 1.88E-05 | 8.67E-01 | 8.67E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.54E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.29E-02 | 5.16E-05 | 5.84E-02 | 5.84E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.57E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.53E-01 | 2.16E-03 | 9.10E-01 | 9.12E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.01E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.88E-01 | 8.08E-03 | 9.08E-01 | 9.17E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.97E-01 | 2.05E-03 | 4.17E-01 | 4.19E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.81E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 1.88E-05 | 8.67E-01 | 8.67E-01 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.75E-01 | 2.72E-02 | 0.00E+00 | 7.43E-01 | 0.00E+00 | 2.04E-01 | 2.04E-05 | 1.55E+00 | 1.55E+00 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.30E-02 | 6.52E-04 | 0.00E+00 | 5.95E-02 | 0.00E+00 | 4.68E-02 | 5.59E-05 | 1.20E-01 | 1.20E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.02E-01 | 1.24E-01 | 0.00E+00 | 4.35E-01 | 0.00E+00 | 6.03E-01 | 2.34E-03 | 1.46E+00 | 1.47E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.70E-02 | 6.27E-03 | 0.00E+00 | 5.04E-01 | 0.00E+00 | 9.69E-01 | 8.75E-03 | 1.50E+00 | 1.50E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.71E-02 | 2.79E-03 | 0.00E+00 | 2.13E-01 | 0.00E+00 | 4.33E-01 | 2.22E-03 | 6.66E-01 | 6.68E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.75E-01 | 2.72E-02 | 0.00E+00 | 7.43E-01 | 0.00E+00 | 2.04E-01 | 2.04E-05 | 1.55E+00 | 1.55E+00 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.06E-01 | 1.77E-01 | 1.62E+00 | 3.34E+00 | 0.00E+00 | 3.25E-01 | 4.23E-05 | 5.56E+00 | 5.56E+00 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.40E-03 | 4.25E-03 | 1.29E-01 | 2.67E-01 | 0.00E+00 | 7.46E-02 | 1.16E-04 | 4.78E-01 | 4.78E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.55E-02 | 8.09E-01 | 9.44E-01 | 1.95E+00 | 0.00E+00 | 9.61E-01 | 4.86E-03 | 4.72E+00 | 4.73E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.12E-03 | 4.09E-02 | 1.09E+00 | 2.26E+00 | 0.00E+00 | 1.54E+00 | 1.82E-02 | 4.95E+00 | 4.96E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.15E-03 | 1.82E-02 | 4.63E-01 | 9.58E-01 | 0.00E+00 | 6.90E-01 | 4.62E-03 | 2.13E+00 | 2.14E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.06E-01 | 1.77E-01 | 1.62E+00 | 3.34E+00 | 0.00E+00 | 3.25E-01 | 4.23E-05 | 5.56E+00 | 5.56E+00 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 7.39E-02 | 5.27E-02 | 2.09E+00 | 1.44E+00 | 0.00E+00 | 3.65E-02 | 2.35E-05 | 3.69E+00 | 3.69E+00 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.68E-03 | 1.26E-03 | 1.67E-01 | 1.15E-01 | 0.00E+00 | 8.39E-03 | 6.45E-05 | 2.94E-01 | 2.94E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.88E-02 | 2.41E-01 | 1.22E+00 | 8.42E-01 | 0.00E+00 | 1.08E-01 | 2.70E-03 | 2.45E+00 | 2.45E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.18E-03 | 1.22E-02 | 1.42E+00 | 9.76E-01 | 0.00E+00 | 1.74E-01 | 1.01E-02 | 2.58E+00 | 2.59E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.20E-03 | 5.41E-03 | 6.00E-01 | 4.13E-01 | 0.00E+00 | 7.75E-02 | 2.57E-03 | 1.10E+00 | 1.10E+00 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 7.06E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.79E-03 | 1.03E-05 | 7.34E-02 | 7.34E-02 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.60E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.41E-04 | 2.84E-05 | 2.24E-03 | 2.27E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-03 | 1.19E-03 | 4.53E-02 | 4.65E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.08E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 4.44E-03 | 1.53E-02 | 1.98E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.10E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.93E-03 | 1.13E-03 | 8.03E-03 | 9.16E-03 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.19E-01 | 2.43E-02 | 1.72E-05 | 4.44E-01 | 4.44E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-03 | 5.58E-03 | 4.73E-05 | 6.86E-03 | 6.91E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.00E-01 | 7.19E-02 | 1.98E-03 | 5.72E-01 | 5.74E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.62E-01 | 1.16E-01 | 7.40E-03 | 3.78E-01 | 3.85E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 5.16E-02 | 1.88E-03 | 4.23E-01 | 4.24E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.10E-02 | 0.00E+00 | 6.69E-02 | 0.00E+00 | 2.11E-01 | 1.01E-02 | 1.33E-05 | 3.19E-01 | 3.19E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.04E-04 | 0.00E+00 | 5.36E-03 | 0.00E+00 | 6.46E-04 | 2.32E-03 | 3.66E-05 | 9.03E-03 | 9.07E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.63E-02 | 0.00E+00 | 3.91E-02 | 0.00E+00 | 2.52E-01 | 2.99E-02 | 1.53E-03 | 3.37E-01 | 3.39E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 9.15E-04 | 0.00E+00 | 4.54E-02 | 0.00E+00 | 1.32E-01 | 4.80E-02 | 5.72E-03 | 2.27E-01 | 2.32E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 9.24E-04 | 0.00E+00 | 1.92E-02 | 0.00E+00 | 1.87E-01 | 2.14E-02 | 1.45E-03 | 2.29E-01 | 2.30E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 9.13E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-01 | 1.01E-02 | 1.33E-05 | 2.73E-01 | 2.73E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.07E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.77E-04 | 2.32E-03 | 3.66E-05 | 3.30E-03 | 3.34E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-01 | 2.99E-02 | 1.53E-03 | 3.38E-01 | 3.39E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 4.80E-02 | 5.72E-03 | 2.07E-01 | 2.13E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.72E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.14E-02 | 1.45E-03 | 2.47E-01 | 2.48E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-72**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **Mourning Dove - high** | **tPCB-high** | **2E+01** | **7E+00** | **2E+01** | **7E+00** |
| **Blue Jay - mid** | **tPCB-med** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Chromium** | 6E-01 | 5E-01 | 6E-01 | 5E-01 |
| | **Lead** | 9E-01 | 5E-01 | 9E-01 | 5E-01 |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Blue Jay - high** | **tPCB-high** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Mercury** | **2E+01** | **7E+00** | **2E+01** | **7E+00** |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Lead** | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Shrew - 1** | **tPCB** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Mercury** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Chromium** | 1E+00 | 9E-01 | 1E+00 | 9E-01 |
| | **Lead** | 5E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| **Deer** | **tPCB** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 3E-02 | 1E-02 | 3E-02 | 2E-02 |
| | **Chromium** | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 3E-03 | 2E-03 | 4E-03 | 2E-03 |
| | **Vanadium** | 2E-03 | 1E-03 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Mercury** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 5E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 4E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-73**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| Carolina Wren - 2 - mid | tPCB-med | 9.51E+00 | 4.09E+00 | 1.57E-04 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Barium | 1.26E+02 | 1.03E+02 | 1.21E-01 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Chromium | 2.82E+01 | 1.68E+01 | 1.80E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 9.36E+00 | 7.63E+00 | 1.22E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Lead | 4.53E+01 | 3.03E+01 | 6.73E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Mercury | 2.19E+00 | 4.48E+00 | 4.30E-04 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 2.02E+01 | 1.28E+01 | 1.71E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| Carolina wren - 2 - high | tPCB-high | 9.51E+00 | 4.09E+00 | 1.57E-04 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| Hawk - mid | tPCB-med | 9.51E+00 | 4.09E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Barium | 1.26E+02 | 1.03E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Chromium | 2.82E+01 | 1.68E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Cobalt | 9.36E+00 | 7.63E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Lead | 4.53E+01 | 3.03E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Mercury | 2.19E+00 | 4.48E+00 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Vanadium | 2.02E+01 | 1.28E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| Hawk - high | tPCB-high | 9.51E+00 | 4.09E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| Raccoon - 1 | tPCB | 9.51E+00 | 4.09E+00 | 1.57E-04 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Barium | 1.26E+02 | 1.03E+02 | 1.21E-01 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Chromium | 2.82E+01 | 1.68E+01 | 1.80E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Cobalt | 9.36E+00 | 7.63E+00 | 1.22E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Lead | 4.53E+01 | 3.03E+01 | 6.73E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Mercury | 2.19E+00 | 4.48E+00 | 4.30E-04 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Vanadium | 2.02E+01 | 1.28E+01 | 1.71E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| Shrew - 2 | tPCB | 9.51E+00 | 4.09E+00 | 1.57E-04 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Barium | 1.26E+02 | 1.03E+02 | 1.21E-01 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Chromium | 2.82E+01 | 1.68E+01 | 1.80E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Cobalt | 9.36E+00 | 7.63E+00 | 1.22E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Lead | 4.53E+01 | 3.03E+01 | 6.73E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Mercury | 2.19E+00 | 4.48E+00 | 4.30E-04 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Vanadium | 2.02E+01 | 1.28E+01 | 1.71E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-73**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.98E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-73**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 3.30E-01 | 1.77E-02 | 9.87E-03 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-73**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| Carolina Wren - 2 - mid | tPCB-med | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | Barium | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | Chromium | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | Cobalt | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | Lead | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | Mercury | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | Vanadium | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| Carolina wren - 2 - high | tPCB-high | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| Hawk - mid | tPCB-med | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | Barium | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | Chromium | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | Cobalt | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | Lead | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | Mercury | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | Vanadium | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| Hawk - high | tPCB-high | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| Raccoon - 1 | tPCB | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | Barium | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | Chromium | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | Cobalt | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | Lead | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | Mercury | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | Vanadium | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| Shrew - 2 | tPCB | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 | 1.92E+00 | 2.22E+01 | 1.66E+01 |
| | Barium | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | Chromium | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | Cobalt | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | Lead | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | Mercury | 1.00E+00 | 3.22E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 |
| | Vanadium | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-73**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 8.33E+01 | 8.67E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 8.33E+01 | 8.67E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 8.33E+01 | 8.67E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-73**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.42E-02 | 0.00E+00 | 0.00E+00 | 1.62E+00 | 0.00E+00 | 1.77E-01 | 0.00E+00 | 1.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.34E+00 | 0.00E+00 | 0.00E+00 | 3.77E+00 | 0.00E+00 | 5.41E-01 | 0.00E+00 | 6.38E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.04E-01 | 0.00E+00 | 0.00E+00 | 9.44E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.16E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.93E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.94E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.37E-01 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 4.09E-02 | 0.00E+00 | 1.51E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.82E-03 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 4.25E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 9.25E-02 | 0.00E+00 | 0.00E+00 | 4.63E-01 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 6.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.42E-02 | 0.00E+00 | 0.00E+00 | 1.62E+00 | 0.00E+00 | 1.77E-01 | 0.00E+00 | 1.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.87E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.08E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 5.69E-02 | 0.00E+00 | 1.19E-01 | 0.00E+00 | 4.34E-03 | 1.19E-01 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 2.73E-02 | 5.37E-02 |
| | **Barium** | 0.00E+00 | 1.29E+00 | 0.00E+00 | 2.76E-01 | 0.00E+00 | 1.32E-02 | 2.76E-01 | 0.00E+00 | 3.77E-02 | 0.00E+00 | 0.00E+00 | 2.04E+00 | 1.80E-02 |
| | **Chromium** | 0.00E+00 | 2.99E-02 | 0.00E+00 | 6.93E-02 | 0.00E+00 | 1.98E-02 | 6.93E-02 | 0.00E+00 | 1.20E-02 | 0.00E+00 | 0.00E+00 | 4.48E-03 | 1.73E-03 |
| | **Cobalt** | 0.00E+00 | 6.28E-03 | 0.00E+00 | 2.15E-02 | 0.00E+00 | 4.95E-02 | 2.15E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 3.34E-04 |
| | **Lead** | 0.00E+00 | 1.68E-03 | 0.00E+00 | 8.03E-02 | 0.00E+00 | 1.00E-03 | 8.03E-02 | 0.00E+00 | 6.29E-03 | 0.00E+00 | 0.00E+00 | 1.37E-02 | 4.57E-04 |
| | **Mercury** | 0.00E+00 | 1.29E-03 | 0.00E+00 | 9.50E-03 | 0.00E+00 | 1.04E-04 | 9.50E-03 | 0.00E+00 | 3.07E-05 | 0.00E+00 | 0.00E+00 | 9.07E-04 | 6.95E-04 |
| | **Vanadium** | 0.00E+00 | 1.69E-03 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 4.45E-04 | 3.40E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 8.37E-03 | 3.68E-04 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 1.05E-01 | 0.00E+00 | 2.32E+00 | 0.00E+00 | 3.62E-02 | 9.88E-01 | 0.00E+00 | 4.52E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.38E+00 | 0.00E+00 | 5.40E+00 | 0.00E+00 | 1.10E-01 | 2.30E+00 | 0.00E+00 | 1.69E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.50E-02 | 0.00E+00 | 1.35E+00 | 0.00E+00 | 1.65E-01 | 5.78E-01 | 0.00E+00 | 5.38E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 1.16E-02 | 0.00E+00 | 4.21E-01 | 0.00E+00 | 4.13E-01 | 1.80E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 3.09E-03 | 0.00E+00 | 1.57E+00 | 0.00E+00 | 8.34E-03 | 6.70E-01 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 2.38E-03 | 0.00E+00 | 1.85E-01 | 0.00E+00 | 8.66E-04 | 7.92E-02 | 0.00E+00 | 1.38E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 3.12E-03 | 0.00E+00 | 6.64E-01 | 0.00E+00 | 3.71E-03 | 2.84E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-73**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.25E-01 | 0.00E+00 | 4.23E-05 | 2.12E+00 | 1.47E+00 | 3.58E+00 | 3.58E+00 | 4.67E-01 | 1.40E+00 | **5E+00** | **2E+00** | **3E+00** | 1E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.30E+00 | 0.00E+00 | 3.27E-02 | 8.60E+00 | 9.72E+00 | 1.83E+01 | 1.84E+01 | 2.08E+01 | 4.17E+01 | 4E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.61E-01 | 0.00E+00 | 4.86E-03 | 2.71E+00 | 1.27E+00 | 3.98E+00 | 3.99E+00 | 2.66E+00 | 2.80E+00 | 1E+00 | 1E+00 | 5E-01 | 5E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-01 | 0.00E+00 | 3.29E-03 | 2.64E+00 | 1.26E+00 | 3.89E+00 | 3.90E+00 | 7.61E+00 | 7.80E+00 | 3E-01 | 3E-01 | 2E-01 | 2E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.54E+00 | 0.00E+00 | 1.82E-02 | 2.68E+00 | 1.85E+00 | 4.53E+00 | 4.55E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 8E-01 | **1E+00** | 6E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.46E-02 | 0.00E+00 | 1.16E-04 | 2.08E-01 | 5.02E-01 | 7.10E-01 | 7.10E-01 | 2.27E-02 | 6.80E-02 | **9E+00** | **3E+00** | **2E+01** | **7E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.90E-01 | 0.00E+00 | 4.62E-03 | 1.17E+00 | 6.99E-01 | 1.87E+00 | 1.88E+00 | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **2E+00** | 1E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.25E-01 | 0.00E+00 | 4.23E-05 | 2.12E+00 | 1.47E+00 | 3.58E+00 | 3.58E+00 | 4.33E-02 | 1.30E-01 | **5E+01** | **2E+01** | **3E+01** | **1E+01** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 3.55E+00 | 0.00E+00 | 4.35E-02 | 1.87E-02 | 8.93E-06 | 5.36E-01 | 3.57E+00 | 4.11E+00 | 4.11E+00 | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | **8E+00** | **3E+00** |
| | **Barium** | 0.00E+00 | 2.85E-01 | 0.00E+00 | 5.75E-01 | 4.72E-01 | 6.90E-03 | 2.42E+00 | 7.57E-01 | 3.18E+00 | 3.19E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 6E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.29E-01 | 7.67E-02 | 1.03E-03 | 7.16E-01 | 1.71E-01 | 8.86E-01 | 8.87E-01 | 2.66E+00 | 2.80E+00 | 3E-01 | 3E-01 | 6E-02 | 6E-02 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 4.27E-02 | 3.48E-02 | 6.95E-04 | 1.13E+00 | 2.70E-01 | 1.40E+00 | 1.40E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 4E-02 | 3E-02 |
| | **Lead** | 0.00E+00 | 2.81E-02 | 0.00E+00 | 2.07E-01 | 1.38E-01 | 3.84E-03 | 5.15E-01 | 1.66E-01 | 6.82E-01 | 6.85E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 2E-01 | 1E-01 | 5E-02 |
| | **Mercury** | 0.00E+00 | 1.62E-02 | 0.00E+00 | 9.99E-03 | 2.05E-02 | 2.45E-05 | 1.15E-02 | 3.67E-02 | 4.82E-02 | 4.82E-02 | 2.27E-02 | 6.80E-02 | 5E-01 | 2E-01 | **2E+00** | 5E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 9.24E-02 | 5.85E-02 | 9.75E-04 | 5.28E-01 | 1.52E-01 | 6.81E-01 | 6.82E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 4E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 3.55E+00 | 0.00E+00 | 4.35E-02 | 1.87E-02 | 8.93E-06 | 5.36E-01 | 3.57E+00 | 4.11E+00 | 4.11E+00 | 4.33E-02 | 1.30E-01 | **1E+01** | **4E+00** | **8E+01** | **3E+01** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.83E-01 | 2.85E-02 | 2.40E-02 | 0.00E+00 | 1.30E-05 | 3.32E-01 | 2.92E-01 | 6.25E-01 | 6.25E-01 | 2.30E-01 | 6.80E-01 | **1E+00** | 5E-01 | **1E+00** | 4E-01 |
| | **Barium** | 0.00E+00 | 1.47E-02 | 9.75E-02 | 3.17E-01 | 0.00E+00 | 1.00E-02 | 2.21E+00 | 2.17E+00 | 4.39E+00 | 4.40E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 1.49E-02 | 7.10E-02 | 0.00E+00 | 1.49E-03 | 2.71E-01 | 2.60E-02 | 2.97E-01 | 2.99E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-02 | 9E-03 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 2.39E-03 | 2.36E-02 | 0.00E+00 | 1.01E-03 | 1.45E-01 | 8.46E-02 | 2.29E-01 | 2.30E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 |
| | **Lead** | 0.00E+00 | 1.45E-03 | 9.58E-03 | 1.14E-01 | 0.00E+00 | 5.59E-03 | 2.84E-01 | 2.52E-02 | 3.09E-01 | 3.15E-01 | 4.70E+00 | 8.90E+00 | 6E-02 | 3E-02 | 5E-03 | 3E-03 |
| | **Mercury** | 0.00E+00 | 8.34E-04 | 9.16E-04 | 5.51E-03 | 0.00E+00 | 3.57E-05 | 2.59E-02 | 3.35E-03 | 2.93E-02 | 2.93E-02 | 7.50E-02 | 1.50E-01 | 3E-01 | 2E-01 | 4E-02 | 2E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 1.86E-03 | 5.10E-02 | 0.00E+00 | 1.42E-03 | 1.30E-01 | 1.54E-02 | 1.45E-01 | 1.47E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 4E-03 | 2E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 4.35E-01 | 4.53E-02 | 3.65E-02 | 1.57E-02 | 2.35E-05 | 3.53E+00 | 4.96E-01 | 4.02E+00 | 4.02E+00 | 2.30E-01 | 6.80E-01 | **2E+01** | **5E+00** | **2E+00** | 7E-01 |
| | **Barium** | 0.00E+00 | 3.50E-02 | 1.55E-01 | 4.83E-01 | 3.96E-01 | 1.82E-02 | 1.08E+01 | 5.86E-01 | 1.14E+01 | 1.15E+01 | 5.18E+01 | 1.21E+02 | 2E-01 | 9E-02 | 1E-02 | 5E-03 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 2.37E-02 | 1.08E-01 | 6.43E-02 | 2.70E-03 | 2.31E+00 | 9.96E-02 | 2.41E+00 | 2.42E+00 | 2.40E+00 | 2.82E+00 | 1E+00 | 8E-01 | 4E-02 | 4E-02 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 3.80E-03 | 3.59E-02 | 2.92E-02 | 1.83E-03 | 1.16E+00 | 6.18E-02 | 1.22E+00 | 1.22E+00 | 7.33E+00 | 1.00E+01 | 2E-01 | 1E-01 | 8E-03 | 6E-03 |
| | **Lead** | 0.00E+00 | 3.44E-03 | 1.52E-02 | 1.74E-01 | 1.16E-01 | 1.01E-02 | 2.45E+00 | 1.35E-01 | 2.59E+00 | 2.60E+00 | 4.70E+00 | 8.90E+00 | 5E-01 | 3E-01 | 3E-02 | 2E-02 |
| | **Mercury** | 0.00E+00 | 1.99E-03 | 1.45E-03 | 8.39E-03 | 1.72E-02 | 6.45E-05 | 2.76E-01 | 2.06E-02 | 2.97E-01 | 2.97E-01 | 7.50E-02 | 1.50E-01 | **4E+00** | **2E+00** | 3E-01 | 1E-01 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 2.95E-03 | 7.75E-02 | 4.91E-02 | 2.57E-03 | 1.07E+00 | 6.36E-02 | 1.14E+00 | 1.14E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 1E-01 | 2E-02 | 8E-03 |

**Table E3-73**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 9E-01 | 4E-01 | 9E-01 | 4E-01 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Vanadium** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **8E+01** | **3E+01** | **8E+01** | **3E+01** |
| **Hawk - mid** | **tPCB-med** | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Barium** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Raccoon - 1** | **tPCB** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 7E-02 | 3E-02 | 7E-02 | 4E-02 |
| | **Mercury** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 3E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 1E+00 | 9E-01 | 1E+00 | 9E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Mercury** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Vanadium** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-74**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**UAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.45E+02** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.75E+01** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.04E+01** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.65E+01** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.45E+02** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.75E+01** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.04E+01** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.65E+01** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.45E+02** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.75E+01** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.04E+01** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.65E+01** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.45E+02** | **1.03E+02** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.75E+01** | **1.68E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.04E+01** | **7.63E+00** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.65E+01** | **3.03E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Barium** | **1.45E+02** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Chromium** | **2.75E+01** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Cobalt** | **1.04E+01** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Lead** | **5.65E+01** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| **Raccoon - 2** | **tPCB** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.45E+02** | **1.03E+02** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.75E+01** | **1.68E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.04E+01** | **7.63E+00** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.65E+01** | **3.03E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-74**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**UAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Barium** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Lead** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Barium** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Chromium** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Cobalt** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Lead** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Mercury** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Vanadium** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table E3-74**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**UAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | |
|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **GBH - mid** | **tPCB-med** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |
| **GBH - high** | **tPCB-high** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Mink - 1** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |
| **Mink - 2** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |
| **Raccoon - 1** | **tPCB** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |
| **Raccoon - 2** | **tPCB** | 6.04E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 8.98E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |

**Table E3-74**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**UAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 3.30E-01 | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **GBH - mid** | **tPCB-med** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 3.30E-01 | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **GBH - high** | **tPCB-high** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **Mink - 1** | **tPCB-mink** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 3.30E-01 | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Mink - 2** | **tPCB-mink** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 3.30E-01 | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 1** | **tPCB** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 3.30E-01 | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 2** | **tPCB** | 2.02E+01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 1.05E+01 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 3.30E-01 | 1.77E-02 | 9.87E-03 | 1.00E+00 | 3.22E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |

**Table E3-74**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**UAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Forage Fish | Reptiles | Amphibians |
| Spotted Sandpiper - 1 - mid | tPCB-med | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| | Barium | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | Chromium | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | Lead | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |
| Spotted Sandpiper - 1 - high | tPCB-high | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| GBH - mid | tPCB-med | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| | Barium | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | Chromium | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | Lead | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |
| GBH - high | tPCB-high | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| Mink - 1 | tPCB-mink | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| | Barium | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | Chromium | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | Lead | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |
| Mink - 2 | tPCB-mink | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| | Barium | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | Chromium | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | Lead | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |
| Raccoon - 1 | tPCB | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| | Barium | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | Chromium | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | Lead | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |
| Raccoon - 2 | tPCB | 1.92E+00 | 2.22E+01 | 1.66E+01 | 8.33E+01 | 8.67E+00 |
| | Barium | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | Chromium | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | Lead | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 2.63E-01 | 1.40E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |

**Table E3-74**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**UAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.13E-01 | 4.23E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 8.38E+00 | 1.06E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.27E-01 | 2.25E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 8.45E-01 | 7.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.15E+00 | 3.33E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.47E-02 | 3.87E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.98E-01 | 1.13E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.13E-01 | 4.23E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.22E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.22E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 7.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.34E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 7.60E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.99E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.09E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 9.83E-02 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 4.66E-03 | 1.27E-01 | 0.00E+00 |
| | **Barium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.49E+00 | 0.00E+00 | 3.19E-01 | 0.00E+00 | 1.53E-02 | 3.19E-01 | 0.00E+00 |
| | **Chromium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.92E-02 | 0.00E+00 | 6.77E-02 | 0.00E+00 | 1.98E-02 | 6.77E-02 | 0.00E+00 |
| | **Cobalt** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 6.99E-03 | 0.00E+00 | 2.40E-02 | 0.00E+00 | 4.95E-02 | 2.40E-02 | 0.00E+00 |
| | **Lead** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.09E-03 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.25E-03 | 1.00E-01 | 0.00E+00 |
| | **Mercury** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.66E-03 | 0.00E+00 | 1.17E-02 | 0.00E+00 | 1.33E-04 | 1.17E-02 | 0.00E+00 |
| | **Vanadium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.69E-03 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 4.45E-04 | 3.40E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.13E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 6.94E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 7.01E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.83E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.92E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-74**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**UAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-01 | 6.55E-02 | 2.66E-05 | 4.39E+00 | 4.79E-01 | 4.87E+00 | 4.87E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.33E+00 | 1.65E+00 | 2.06E-02 | 1.29E+01 | 1.00E+01 | 2.29E+01 | 2.30E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.41E-01 | 2.69E-01 | 3.06E-03 | 2.69E+00 | 7.96E-01 | 3.48E+00 | 3.49E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E-01 | 1.22E-01 | 2.07E-03 | 9.63E-01 | 9.68E-01 | 1.93E+00 | 1.93E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.06E-01 | 4.85E-01 | 1.14E-02 | 4.23E+00 | 2.63E+00 | 6.87E+00 | 6.88E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.50E-02 | 7.18E-02 | 7.31E-05 | 4.32E-01 | 1.16E-01 | 5.49E-01 | 5.49E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-01 | 2.05E-01 | 2.91E-03 | 1.45E+00 | 7.03E-01 | 2.15E+00 | 2.16E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-01 | 6.55E-02 | 2.66E-05 | 4.39E+00 | 4.79E-01 | 4.87E+00 | 4.87E+00 |
| **GBH - mid** | **tPCB-med** | 1.29E-02 | 0.00E+00 | 0.00E+00 | 1.38E-02 | 1.51E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E-01 | 0.00E+00 | 1.44E-02 | 7.05E-06 | 1.29E-02 | 1.53E+01 | 1.53E+01 | 1.53E+01 |
| | **Barium** | 5.38E-02 | 0.00E+00 | 0.00E+00 | 1.03E+00 | 5.05E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.54E-01 | 0.00E+00 | 3.63E-01 | 5.45E-03 | 5.38E-02 | 7.30E+00 | 7.35E+00 | 7.36E+00 |
| | **Chromium** | 1.45E-02 | 0.00E+00 | 0.00E+00 | 2.26E-03 | 4.85E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-01 | 0.00E+00 | 5.91E-02 | 8.10E-04 | 1.45E-02 | 6.77E-01 | 6.92E-01 | 6.92E-01 |
| | **Cobalt** | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 9.37E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.09E-02 | 0.00E+00 | 2.69E-02 | 5.49E-04 | 2.75E-02 | 1.77E-01 | 2.04E-01 | 2.05E-01 |
| | **Lead** | 9.72E-03 | 0.00E+00 | 0.00E+00 | 6.90E-03 | 1.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-02 | 0.00E+00 | 1.07E-01 | 3.03E-03 | 9.72E-03 | 3.26E-01 | 3.35E-01 | 3.38E-01 |
| | **Mercury** | 4.88E-05 | 0.00E+00 | 0.00E+00 | 4.58E-04 | 1.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.02E-03 | 0.00E+00 | 1.58E-02 | 1.94E-05 | 4.88E-05 | 2.19E-01 | 2.19E-01 | 2.19E-01 |
| | **Vanadium** | 1.10E-02 | 0.00E+00 | 0.00E+00 | 4.22E-03 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.63E-02 | 0.00E+00 | 4.51E-02 | 7.70E-04 | 1.10E-02 | 1.69E-01 | 1.80E-01 | 1.81E-01 |
| **GBH - high** | **tPCB-high** | 1.29E-02 | 0.00E+00 | 0.00E+00 | 1.38E-02 | 1.51E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E-01 | 0.00E+00 | 1.44E-02 | 7.05E-06 | 1.29E-02 | 1.53E+01 | 1.53E+01 | 1.53E+01 |
| **Mink - 1** | **tPCB-mink** | 1.60E-01 | 0.00E+00 | 0.00E+00 | 3.49E-02 | 0.00E+00 | 0.00E+00 | 7.07E-01 | 0.00E+00 | 4.56E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.60E-01 | 1.20E+00 | 1.36E+00 | 1.36E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.60E-01 | 0.00E+00 | 0.00E+00 | 3.49E-02 | 0.00E+00 | 0.00E+00 | 7.07E-01 | 0.00E+00 | 4.56E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.60E-01 | 1.20E+00 | 1.36E+00 | 1.36E+00 |
| | **Barium** | 6.66E-01 | 0.00E+00 | 0.00E+00 | 2.61E+00 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 1.56E+00 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 6.66E-01 | 5.17E+00 | 5.84E+00 | 5.85E+00 |
| | **Chromium** | 1.79E-01 | 0.00E+00 | 0.00E+00 | 5.72E-03 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 2.39E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.79E-01 | 3.47E-01 | 5.26E-01 | 5.28E-01 |
| | **Cobalt** | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 3.83E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 3.28E-01 | 6.68E-01 | 6.69E-01 |
| | **Lead** | 1.20E-01 | 0.00E+00 | 0.00E+00 | 1.75E-02 | 0.00E+00 | 0.00E+00 | 6.85E-03 | 0.00E+00 | 1.53E-01 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.20E-01 | 1.77E-01 | 2.98E-01 | 3.04E-01 |
| | **Mercury** | 6.04E-04 | 0.00E+00 | 0.00E+00 | 1.16E-03 | 0.00E+00 | 0.00E+00 | 6.52E-03 | 0.00E+00 | 1.46E-02 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 6.04E-04 | 2.23E-02 | 2.29E-02 | 2.30E-02 |
| | **Vanadium** | 1.36E-01 | 0.00E+00 | 0.00E+00 | 1.07E-02 | 0.00E+00 | 0.00E+00 | 2.13E-02 | 0.00E+00 | 2.97E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 6.17E-02 | 1.98E-01 | 1.99E-01 |
| **Mink - 2** | **tPCB-mink** | 2.18E-02 | 0.00E+00 | 0.00E+00 | 1.55E-02 | 0.00E+00 | 0.00E+00 | 2.90E+00 | 0.00E+00 | 5.26E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 2.18E-02 | 2.97E+00 | 2.99E+00 | 2.99E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 2.18E-02 | 0.00E+00 | 0.00E+00 | 1.55E-02 | 0.00E+00 | 0.00E+00 | 2.90E+00 | 0.00E+00 | 5.26E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 2.18E-02 | 2.97E+00 | 2.99E+00 | 2.99E+00 |
| | **Barium** | 9.08E-02 | 0.00E+00 | 0.00E+00 | 1.16E+00 | 0.00E+00 | 0.00E+00 | 4.12E+00 | 0.00E+00 | 1.80E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 9.08E-02 | 5.54E+00 | 5.63E+00 | 5.64E+00 |
| | **Chromium** | 2.44E-02 | 0.00E+00 | 0.00E+00 | 2.54E-03 | 0.00E+00 | 0.00E+00 | 4.23E-01 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 2.44E-02 | 4.55E-01 | 4.79E-01 | 4.81E-01 |
| | **Cobalt** | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 4.41E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.83E-01 | 9.29E-01 | 9.30E-01 |
| | **Lead** | 1.64E-02 | 0.00E+00 | 0.00E+00 | 7.76E-03 | 0.00E+00 | 0.00E+00 | 2.80E-02 | 0.00E+00 | 1.77E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.64E-02 | 6.11E-02 | 7.75E-02 | 8.42E-02 |
| | **Mercury** | 8.23E-05 | 0.00E+00 | 0.00E+00 | 5.15E-04 | 0.00E+00 | 0.00E+00 | 2.67E-02 | 0.00E+00 | 1.69E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 8.23E-05 | 2.91E-02 | 2.92E-02 | 2.92E-02 |
| | **Vanadium** | 1.85E-02 | 0.00E+00 | 0.00E+00 | 4.75E-03 | 0.00E+00 | 0.00E+00 | 8.74E-02 | 0.00E+00 | 3.43E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 9.77E-02 | 1.16E-01 | 1.18E-01 |
| **Raccoon - 1** | **tPCB** | 1.04E-02 | 0.00E+00 | 0.00E+00 | 2.73E-02 | 5.37E-02 | 0.00E+00 | 0.00E+00 | 1.83E-01 | 2.85E-02 | 2.58E-02 | 0.00E+00 | 1.30E-05 | 3.94E-01 | 2.92E-01 | 6.86E-01 | 6.86E-01 |
| | **Barium** | 4.35E-02 | 0.00E+00 | 0.00E+00 | 2.04E+00 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 1.47E-02 | 9.75E-02 | 3.66E-01 | 0.00E+00 | 1.00E-02 | 2.55E+00 | 2.17E+00 | 4.73E+00 | 4.74E+00 |
| | **Chromium** | 1.17E-02 | 0.00E+00 | 0.00E+00 | 4.48E-03 | 1.73E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.49E-02 | 6.93E-02 | 0.00E+00 | 1.49E-03 | 2.65E-01 | 2.60E-02 | 2.91E-01 | 2.93E-01 |
| | **Cobalt** | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 3.34E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 2.39E-03 | 2.63E-02 | 0.00E+00 | 1.01E-03 | 1.53E-01 | 8.46E-02 | 2.38E-01 | 2.39E-01 |
| | **Lead** | 7.85E-03 | 0.00E+00 | 0.00E+00 | 1.37E-02 | 4.57E-04 | 0.00E+00 | 0.00E+00 | 1.45E-03 | 9.58E-03 | 1.43E-01 | 0.00E+00 | 5.59E-03 | 3.54E-01 | 2.52E-02 | 3.80E-01 | 3.85E-01 |
| | **Mercury** | 3.94E-05 | 0.00E+00 | 0.00E+00 | 9.07E-04 | 6.95E-04 | 0.00E+00 | 0.00E+00 | 8.34E-04 | 9.16E-04 | 7.08E-03 | 0.00E+00 | 3.57E-05 | 3.23E-02 | 3.35E-03 | 3.56E-02 | 3.56E-02 |
| | **Vanadium** | 8.89E-03 | 0.00E+00 | 0.00E+00 | 8.37E-03 | 3.68E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.86E-03 | 5.10E-02 | 0.00E+00 | 1.42E-03 | 1.30E-01 | 1.54E-02 | 1.45E-01 | 1.47E-01 |
| **Raccoon - 2** | **tPCB** | 3.75E-02 | 1.08E-01 | 1.50E-01 | 2.73E-02 | 5.61E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-01 | 0.00E+00 | 1.03E-02 | 1.30E-05 | 3.75E-02 | 9.82E-01 | 1.02E+00 | 1.02E+00 |
| | **Barium** | 1.56E-01 | 7.58E-02 | 2.87E-01 | 2.04E+00 | 1.88E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.90E-01 | 0.00E+00 | 2.60E-01 | 1.00E-02 | 1.56E-01 | 3.94E+00 | 4.09E+00 | 4.10E+00 |
| | **Chromium** | 4.19E-02 | 4.77E-03 | 7.43E-02 | 4.48E-03 | 1.81E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E-02 | 0.00E+00 | 4.23E-02 | 1.49E-03 | 4.19E-02 | 2.25E-01 | 2.67E-01 | 2.69E-01 |
| | **Cobalt** | 7.96E-02 | 7.64E-03 | 4.49E-02 | 6.97E-02 | 3.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.57E-03 | 0.00E+00 | 1.92E-02 | 1.01E-03 | 7.96E-02 | 3.13E-01 | 3.93E-01 | 3.94E-01 |
| | **Lead** | 2.81E-02 | 1.94E-02 | 1.10E-01 | 1.37E-02 | 4.78E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.83E-02 | 0.00E+00 | 7.64E-02 | 5.59E-03 | 2.81E-02 | 3.32E-01 | 3.61E-01 | 3.66E-01 |
| | **Mercury** | 1.41E-04 | 3.61E-03 | 5.03E-03 | 9.07E-04 | 7.26E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.66E-03 | 0.00E+00 | 1.13E-02 | 3.57E-05 | 1.41E-04 | 3.36E-02 | 3.37E-02 | 3.38E-02 |
| | **Vanadium** | 3.19E-02 | 4.50E-03 | 2.47E-02 | 8.37E-03 | 3.85E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.44E-03 | 0.00E+00 | 3.23E-02 | 1.42E-03 | 3.19E-02 | 1.00E-01 | 1.32E-01 | 1.34E-01 |

**Table E3-74**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**UAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **9E+00** | **3E+00** | 1E+00 | 3E-01 | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 6E-01 | 3E-01 | 5E-01 | 2E-01 | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 1E+00 | 1E+00 | 3E-01 | 3E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **3E+00** | **1E+00** | **2E+00** | 8E-01 | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **2E+01** | **6E+00** | **5E+00** | **2E+00** | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **2E+00** | 1E+00 | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+02** | **3E+01** | **1E+01** | **4E+00** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **GBH - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 3E-02 | 9E-03 | **3E+01** | **1E+01** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 3E-03 | 1E-03 | 4E-01 | 2E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 5E-03 | 5E-03 | 3E-01 | 2E-01 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 2E-02 | 2E-02 | 3E-02 | 3E-02 | 3E-02 | 3E-02 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 2E-03 | 7E-04 | **1E+01** | **3E+00** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 5E-01 | 2E-01 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| **GBH - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | 3E-01 | 1E-01 | **4E+02** | **1E+02** | **4E+02** | **1E+02** | **4E+02** | **1E+02** |
| **Mink - 1** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | **3E+00** | **2E+00** | **2E+01** | **1E+01** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | -- | **3E+00** | -- | **2E+01** | -- | **3E+01** | -- | **3E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 7E-02 | 6E-02 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 4E-02 | 2E-02 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 8E-03 | 4E-03 | 3E-01 | 1E-01 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 1E-02 | 7E-03 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| **Mink - 2** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | 4E-01 | 2E-01 | **6E+01** | **3E+01** | **6E+01** | **3E+01** | **6E+01** | **3E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | -- | 4E-01 | -- | **6E+01** | -- | **6E+01** | -- | **6E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-03 | 8E-04 | 1E-01 | 5E-02 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-02 | 9E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 1E-03 | 5E-04 | 4E-01 | 2E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 2E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+00** | 6E-01 | **1E+00** | 4E-01 | **3E+00** | 1E+00 | **3E+00** | 1E+00 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 5E-02 | 2E-02 | 4E-02 | 2E-02 | 9E-02 | 4E-02 | 9E-02 | 4E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-01 | 9E-02 | 1E-02 | 9E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 2E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 8E-02 | 4E-02 | 5E-03 | 3E-03 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 4E-01 | 2E-01 | 4E-02 | 2E-02 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 4E-03 | 2E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | 2E-01 | 6E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 3E-03 | 1E-03 | 8E-02 | 3E-02 | 8E-02 | 3E-02 | 8E-02 | 3E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 2E-02 | 1E-02 | 9E-02 | 8E-02 | 1E-01 | 9E-02 | 1E-01 | 1E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 5E-02 | 4E-02 | 5E-02 | 4E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 7E-02 | 4E-02 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 2E-03 | 9E-04 | 4E-01 | 2E-01 | 4E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 2E-02 | 1E-02 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-75**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-75**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 9.78E-01 | 2.65E+00 | 2.26E+01 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 8.59E-02 | 2.32E-01 | 3.21E-01 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-75**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 5.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 5.42E+00 | 5.42E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 2.72E+00 | 2.75E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 3.21E+00 | 3.21E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 6.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 6.82E-02 | 7.07E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 1.62E-01 | 1.76E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 7.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 7.70E-02 | 7.71E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 1.40E-01 | 1.44E-01 | 3.44E-01 | 7.00E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 5.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 5.42E+00 | 5.42E+00 | 4.33E-02 | 1.30E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 2.36E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-01 | 2.66E-05 | 6.03E-01 | 6.03E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 5.34E+00 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.31E+00 | 2.06E-02 | 1.40E+01 | 1.40E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 3.44E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.38E-01 | 3.06E-03 | 1.23E+00 | 1.23E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 3.96E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.44E-01 | 2.07E-03 | 1.04E+00 | 1.04E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 5.34E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.70E-01 | 1.14E-02 | 2.04E+00 | 2.05E+00 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 2.07E-02 | 0.00E+00 | 2.07E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.44E-01 | 7.31E-05 | 1.85E-01 | 1.85E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 2.28E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.10E-01 | 2.91E-03 | 8.65E-01 | 8.68E-01 | 3.44E-01 | 7.00E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 2.36E-01 | 0.00E+00 | 2.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-01 | 2.66E-05 | 6.03E-01 | 6.03E-01 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E+00 | 0.00E+00 | 0.00E+00 | 1.29E-02 | 1.72E-05 | 3.76E+00 | 3.76E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E+00 | 0.00E+00 | 0.00E+00 | 3.25E-01 | 1.33E-02 | 5.52E+00 | 5.53E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 0.00E+00 | 0.00E+00 | 5.29E-02 | 1.98E-03 | 1.80E+00 | 1.81E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 2.40E-02 | 1.34E-03 | 3.07E+00 | 3.07E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 9.54E-02 | 7.40E-03 | 4.21E-01 | 4.29E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.87E-02 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 4.73E-05 | 4.28E-02 | 4.28E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 4.03E-02 | 1.88E-03 | 2.28E-01 | 2.29E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E+00 | 0.00E+00 | 0.00E+00 | 1.29E-02 | 1.72E-05 | 3.76E+00 | 3.76E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-01 | 0.00E+00 | 0.00E+00 | 2.84E+00 | 0.00E+00 | 3.03E-01 | 1.29E-02 | 1.72E-05 | 3.27E+00 | 3.27E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E+00 | 0.00E+00 | 0.00E+00 | 3.95E+00 | 0.00E+00 | 3.47E-01 | 3.25E-01 | 1.33E-02 | 1.06E+01 | 1.06E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.33E+00 | 0.00E+00 | 1.42E-01 | 5.29E-02 | 1.98E-03 | 1.57E+00 | 1.57E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.23E-02 | 2.40E-02 | 1.34E-03 | 2.95E+00 | 2.95E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-02 | 0.00E+00 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 3.25E-02 | 9.54E-02 | 7.40E-03 | 4.74E-01 | 4.81E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.69E-03 | 0.00E+00 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 8.12E-03 | 1.41E-02 | 4.73E-05 | 4.97E-02 | 4.98E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 1.28E-02 | 4.03E-02 | 1.88E-03 | 2.37E-01 | 2.39E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-01 | 0.00E+00 | 0.00E+00 | 2.84E+00 | 0.00E+00 | 3.03E-01 | 1.29E-02 | 1.72E-05 | 3.27E+00 | 3.27E+00 | 4.33E-02 | 1.30E-01 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.54E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 3.54E+00 | 3.54E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 1.04E+00 | 1.05E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 3.22E-01 | 3.23E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 3.21E-02 | 3.28E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 3.86E-02 | 4.21E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.20E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 5.20E-02 | 5.20E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 8.39E-02 | 8.48E-02 | 3.44E-01 | 7.00E-01 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.54E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 3.54E+00 | 3.54E+00 | 4.33E-02 | 1.30E-01 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 4.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 4.00E+00 | 4.00E+00 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 2.01E+00 | 2.03E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 2.37E+00 | 2.37E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 5.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 5.03E-02 | 5.23E-02 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 1.20E-01 | 1.30E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 5.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 5.69E-02 | 5.69E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 1.03E-01 | 1.06E-01 | 4.16E+00 | 8.31E+00 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-01 | 8.54E-01 | 2.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.94E+00 | 1.94E+00 | 5.00E-02 | 1.00E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-01 | 8.54E-01 | 2.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.94E+00 | 1.94E+00 | na | 5.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 1.17E-01 | 3.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 7.09E-01 | 7.19E-01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-02 | 1.46E-02 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 2.07E-01 | 2.08E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E-03 | 3.49E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.13E-01 | 2.14E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.15E-03 | 1.64E-03 | 2.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 3.24E-02 | 3.79E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 1.13E-02 | 1.90E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 2.55E-02 | 2.55E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-02 | 1.14E-03 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 3.34E-02 | 3.48E-02 | 4.16E+00 | 8.31E+00 |

**Table E3-75**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 9E-03 | 9E-03 | 9E-03 | 9E-03 |
| | **Lead** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| | **Chromium** | 5E-01 | 4E-01 | 5E-01 | 4E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Mercury** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Vanadium** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Vanadium** | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Barium** | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Chromium** | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Vanadium** | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | **8E+01** | **3E+01** | **8E+01** | **3E+01** |
| **Osprey - mid** | **tPCB-med** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 4E-03 | 4E-03 | 4E-03 | 4E-03 |
| | **Lead** | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | **8E+01** | **3E+01** | **8E+01** | **3E+01** |
| **Bat** | **tPCB** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 1E+00 | 8E-01 | 1E+00 | 8E-01 |
| | **Cobalt** | 7E-03 | 5E-03 | 7E-03 | 5E-03 |
| | **Lead** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Vanadium** | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | **4E+01** | **2E+01** | **4E+01** | **2E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | **--** | **4E+01** | **--** | **4E+01** |
| | **Barium** | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 7E-03 | 4E-03 | 8E-03 | 4E-03 |
| | **Mercury** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 8E-03 | 4E-03 | 8E-03 | 4E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-76**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) |
| **Mourning Dove - mid** | **tPCB-med** | **9.51E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 1.20E-01 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 | 1.20E-01 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 1.20E-01 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 1.20E-01 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 1.20E-01 |
| **Mourning Dove - high** | **tPCB-high** | **9.51E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 1.20E-01 |
| **Blue Jay - mid** | **tPCB-med** | **9.51E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 8.70E-02 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 | 8.70E-02 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 8.70E-02 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 8.70E-02 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 8.70E-02 |
| **Blue Jay - high** | **tPCB-high** | **9.51E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 8.70E-02 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **9.51E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 2.00E-02 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 | 2.00E-02 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 2.00E-02 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 2.00E-02 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 2.00E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **9.51E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 2.00E-02 |
| **Shrew - 1** | **tPCB** | **9.51E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 1.70E-02 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 | 1.70E-02 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 1.70E-02 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 1.70E-02 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 1.70E-02 |
| **Deer** | **tPCB** | **9.51E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 5.66E+01 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 | 5.66E+01 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 5.66E+01 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 5.66E+01 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 5.66E+01 |
| **Weasel** | **tPCB** | **9.51E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 3.00E-01 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 | 3.00E-01 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 3.00E-01 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 3.00E-01 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 3.00E-01 |
| **Fox - 1** | **tPCB** | **9.51E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 4.50E+00 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 | 4.50E+00 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 4.50E+00 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 4.50E+00 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 4.50E+00 |
| **Fox - 2** | **tPCB** | **9.51E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.57E-01 | 9.60E-02 | 4.52E+01 | 6.36E+00 | 4.50E+00 |
| | **Mercury** | **2.19E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 3.77E-02 | 5.58E+00 | 4.68E-02 | 4.50E+00 |
| | **Chromium** | **2.82E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 4.50E+00 |
| | **Lead** | **4.53E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 4.50E+00 |
| | **Vanadium** | **2.02E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 4.50E+00 |

**Table E3-76**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water |
| **Mourning Dove - mid** | **tPCB-med** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 1.88E-05 | 2.23E-01 | 2.23E-01 |
| | **Mercury** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.29E-02 | 5.16E-05 | 5.14E-02 | 5.14E-02 |
| | **Chromium** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.53E-01 | 2.16E-03 | 8.91E-01 | 8.93E-01 |
| | **Lead** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.88E-01 | 8.08E-03 | 9.03E-01 | 9.11E-01 |
| | **Vanadium** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.97E-01 | 2.05E-03 | 4.14E-01 | 4.16E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 1.88E-05 | 2.23E-01 | 2.23E-01 |
| **Blue Jay - mid** | **tPCB-med** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 0.00E+00 | 2.04E-01 | 2.04E-05 | 9.96E-01 | 9.96E-01 |
| | **Mercury** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 6.34E-04 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 0.00E+00 | 4.68E-02 | 5.59E-05 | 1.49E-01 | 1.49E-01 |
| | **Chromium** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 6.03E-01 | 2.34E-03 | 1.34E+00 | 1.34E+00 |
| | **Lead** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 0.00E+00 | 9.69E-01 | 8.75E-03 | 2.93E+00 | 2.94E+00 |
| | **Vanadium** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 4.33E-01 | 2.22E-03 | 6.09E-01 | 6.12E-01 |
| **Blue Jay - high** | **tPCB-high** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.07E-02 | 1.62E-03 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 0.00E+00 | 2.04E-01 | 2.04E-05 | 9.96E-01 | 9.96E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 3.25E-01 | 4.23E-05 | 5.40E+00 | 5.40E+00 |
| | **Mercury** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 4.13E-03 | 2.04E-01 | 4.22E-01 | 0.00E+00 | 0.00E+00 | 7.46E-02 | 1.16E-04 | 7.06E-01 | 7.06E-01 |
| | **Chromium** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 9.61E-01 | 4.86E-03 | 4.00E+00 | 4.01E+00 |
| | **Lead** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 1.54E+00 | 1.82E-02 | 1.45E+01 | 1.46E+01 |
| | **Vanadium** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 6.90E-01 | 4.62E-03 | 1.77E+00 | 1.78E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.64E-03 | 1.05E-02 | 1.65E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 3.25E-01 | 4.23E-05 | 5.40E+00 | 5.40E+00 |
| **Shrew - 1** | **tPCB** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.94E-03 | 3.13E-03 | 2.14E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 3.65E-02 | 2.35E-05 | 3.65E+00 | 3.65E+00 |
| | **Mercury** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 1.23E-03 | 2.64E-01 | 1.82E-01 | 0.00E+00 | 0.00E+00 | 8.39E-03 | 6.45E-05 | 4.57E-01 | 4.57E-01 |
| | **Chromium** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 0.00E+00 | 1.08E-01 | 2.70E-03 | 1.94E+00 | 1.94E+00 |
| | **Lead** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 0.00E+00 | 1.74E-01 | 1.01E-02 | 9.43E+00 | 9.44E+00 |
| | **Vanadium** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 0.00E+00 | 7.75E-02 | 2.57E-03 | 8.38E-01 | 8.41E-01 |
| **Deer** | **tPCB** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.77E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.79E-03 | 1.03E-05 | 6.55E-03 | 6.56E-03 |
| | **Mercury** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.41E-04 | 2.84E-05 | 1.52E-03 | 1.55E-03 |
| | **Chromium** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-03 | 1.19E-03 | 4.34E-02 | 4.46E-02 |
| | **Lead** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 4.44E-03 | 1.48E-02 | 1.92E-02 |
| | **Vanadium** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.93E-03 | 1.13E-03 | 7.71E-03 | 8.84E-03 |
| **Weasel** | **tPCB** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.77E-01 | 2.43E-02 | 1.72E-05 | 4.02E-01 | 4.02E-01 |
| | **Mercury** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-03 | 5.58E-03 | 4.73E-05 | 8.36E-03 | 8.41E-03 |
| | **Chromium** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 7.19E-02 | 1.98E-03 | 3.50E-01 | 3.52E-01 |
| | **Lead** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 1.16E-01 | 7.40E-03 | 4.31E-01 | 4.38E-01 |
| | **Vanadium** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 5.16E-02 | 1.88E-03 | 4.23E-01 | 4.24E-01 |
| **Fox - 1** | **tPCB** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.65E-03 | 0.00E+00 | 6.84E-02 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 1.01E-02 | 1.33E-05 | 2.70E-01 | 2.70E-01 |
| | **Mercury** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 8.46E-03 | 0.00E+00 | 0.00E+00 | 1.40E-03 | 2.32E-03 | 3.66E-05 | 1.26E-02 | 1.26E-02 |
| | **Chromium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.99E-02 | 1.53E-03 | 2.15E-01 | 2.16E-01 |
| | **Lead** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 4.80E-02 | 5.72E-03 | 3.83E-01 | 3.89E-01 |
| | **Vanadium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 2.14E-02 | 1.45E-03 | 2.23E-01 | 2.25E-01 |
| **Fox - 2** | **tPCB** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.87E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-01 | 1.01E-02 | 1.33E-05 | 2.39E-01 | 2.39E-01 |
| | **Mercury** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-03 | 2.32E-03 | 3.66E-05 | 4.12E-03 | 4.15E-03 |
| | **Chromium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 2.99E-02 | 1.53E-03 | 2.03E-01 | 2.05E-01 |
| | **Lead** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 4.80E-02 | 5.72E-03 | 2.39E-01 | 2.45E-01 |
| | **Vanadium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.14E-02 | 1.45E-03 | 2.47E-01 | 2.48E-01 |

**Table E3-76**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **Mourning Dove - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Blue Jay - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| **Blue Jay - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Chromium** | 2.66E+00 | 2.80E+00 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Lead** | 1.63E+00 | 3.26E+00 | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Shrew - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Mercury** | 7.50E-02 | 1.50E-01 | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | 4.70E+00 | 8.90E+00 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 4E-03 | 2E-03 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-03 | 9E-04 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | 1E+00 | 4E-01 | 1E+00 | 4E-01 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 5E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 8E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concer
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight pe
LOAEL = lowest observed adverse effe
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect l
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients grea**

**Table E3-77**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **9.51E+00** | **4.09E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | **Barium** | **1.26E+02** | **1.03E+02** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | **Chromium** | **2.82E+01** | **1.68E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | **Cobalt** | **9.36E+00** | **7.63E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | **Lead** | **4.53E+01** | **3.03E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | **Mercury** | **2.19E+00** | **4.48E+00** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | **9.51E+00** | **4.09E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| **Hawk - mid** | **tPCB-med** | **9.51E+00** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.26E+02** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.82E+01** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.36E+00** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **4.53E+01** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.19E+00** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **9.51E+00** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **9.51E+00** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | **Barium** | **1.26E+02** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | **Chromium** | **2.82E+01** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | **Cobalt** | **9.36E+00** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | **Lead** | **4.53E+01** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | **Mercury** | **2.19E+00** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **9.51E+00** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | **Barium** | **1.26E+02** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | **Chromium** | **2.82E+01** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | **Cobalt** | **9.36E+00** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | **Lead** | **4.53E+01** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | **Mercury** | **2.19E+00** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |

**Table E3-77**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| Carolina Wren - 2 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| Carolina wren - 2 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| Hawk - mid | tPCB-med | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Barium | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Chromium | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Cobalt | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Lead | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Mercury | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Vanadium | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| Hawk - high | tPCB-high | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| Raccoon - 1 | tPCB | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Barium | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Chromium | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Cobalt | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Lead | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Mercury | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Vanadium | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| Shrew - 2 | tPCB | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Barium | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Chromium | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Cobalt | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Lead | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Mercury | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Vanadium | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |

**Table E3-77**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| **Hawk - mid** | **tPCB-med** | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Hawk - high** | **tPCB-high** | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| **Raccoon - 1** | **tPCB** | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Shrew - 2** | **tPCB** | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 |
| | **Barium** | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 |
| | **Vanadium** | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |

**Table E3-77**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| Carolina Wren - 2 - mid | tPCB-med | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Barium | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Chromium | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Cobalt | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Lead | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Mercury | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Vanadium | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| Carolina wren - 2 - high | tPCB-high | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| Hawk - mid | tPCB-med | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Barium | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Chromium | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Cobalt | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Lead | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Mercury | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Vanadium | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| Hawk - high | tPCB-high | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| Raccoon - 1 | tPCB | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Barium | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Chromium | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Cobalt | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Lead | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Mercury | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Vanadium | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| Shrew - 2 | tPCB | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Barium | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Chromium | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Cobalt | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Lead | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Mercury | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Vanadium | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-77**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.88E-03 | 0.00E+00 | 0.00E+00 | 2.04E-01 | 0.00E+00 | 4.13E-03 | 0.00E+00 | 4.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-03 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 3.03E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 2.58E-04 | 1.21E-01 | 0.00E+00 | 9.04E-03 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 7.06E-04 | 0.00E+00 | 1.50E-02 | 0.00E+00 | 1.01E-04 | 1.50E-02 | 0.00E+00 | 6.65E-05 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 5.58E-03 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 2.15E-03 | 1.01E+00 | 0.00E+00 | 4.06E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-03 | 0.00E+00 | 2.93E-01 | 0.00E+00 | 8.43E-04 | 1.25E-01 | 0.00E+00 | 2.99E-04 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 |

**Table E3-77**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| Carolina Wren - 2 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.25E-01 | 0.00E+00 | 4.23E-05 | 1.99E+00 | 3.43E+00 | 5.42E+00 | 5.42E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.30E+00 | 0.00E+00 | 3.27E-02 | 1.36E+01 | 1.88E+01 | 3.25E+01 | 3.25E+01 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.61E-01 | 0.00E+00 | 4.86E-03 | 2.48E+00 | 1.54E+00 | 4.02E+00 | 4.02E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-01 | 0.00E+00 | 3.29E-03 | 2.55E+00 | 1.19E+00 | 3.74E+00 | 3.74E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.54E+00 | 0.00E+00 | 1.82E-02 | 5.80E+00 | 8.90E+00 | 1.47E+01 | 1.47E+01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.46E-02 | 0.00E+00 | 1.16E-04 | 2.83E-01 | 4.24E-01 | 7.07E-01 | 7.07E-01 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.90E-01 | 0.00E+00 | 4.62E-03 | 1.06E+00 | 7.53E-01 | 1.81E+00 | 1.82E+00 |
| Carolina wren - 2 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.25E-01 | 0.00E+00 | 4.23E-05 | 1.99E+00 | 3.43E+00 | 5.42E+00 | 5.42E+00 |
| Hawk - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E+00 | 0.00E+00 | 4.35E-02 | 1.87E-02 | 8.93E-06 | 4.87E-01 | 1.75E+00 | 2.24E+00 | 2.24E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 5.75E-01 | 4.72E-01 | 6.90E-03 | 3.60E+00 | 5.75E-01 | 4.18E+00 | 4.19E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.29E-01 | 7.67E-02 | 1.03E-03 | 4.56E-01 | 1.71E-01 | 6.26E-01 | 6.27E-01 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00 | 4.27E-02 | 3.48E-02 | 6.95E-04 | 1.13E+00 | 2.70E-01 | 1.40E+00 | 1.40E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.98E-03 | 0.00E+00 | 2.07E-01 | 1.38E-01 | 3.84E-03 | 5.77E-01 | 1.46E-01 | 7.24E-01 | 7.27E-01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 9.99E-03 | 2.05E-02 | 2.45E-05 | 1.33E-02 | 2.96E-02 | 4.28E-02 | 4.29E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 9.24E-02 | 5.85E-02 | 9.75E-04 | 5.28E-01 | 1.52E-01 | 6.81E-01 | 6.82E-01 |
| Hawk - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E+00 | 0.00E+00 | 4.35E-02 | 1.87E-02 | 8.93E-06 | 4.87E-01 | 1.75E+00 | 2.24E+00 | 2.24E+00 |
| Raccoon - 1 | tPCB | 1.33E-02 | 2.96E-02 | 0.00E+00 | 0.00E+00 | 8.93E-02 | 3.09E-02 | 2.40E-02 | 0.00E+00 | 1.30E-05 | 2.79E-01 | 1.63E-01 | 4.42E-01 | 4.42E-01 |
| | Barium | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 3.17E-01 | 0.00E+00 | 1.00E-02 | 4.59E+00 | 7.44E-01 | 5.34E+00 | 5.35E+00 |
| | Chromium | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 7.10E-02 | 0.00E+00 | 1.49E-03 | 2.30E-01 | 2.69E-02 | 2.57E-01 | 2.58E-01 |
| | Cobalt | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.36E-02 | 0.00E+00 | 1.01E-03 | 1.30E-01 | 8.34E-02 | 2.14E-01 | 2.15E-01 |
| | Lead | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 1.14E-01 | 0.00E+00 | 5.59E-03 | 7.44E-01 | 1.55E-02 | 7.60E-01 | 7.65E-01 |
| | Mercury | 6.63E-04 | 4.34E-04 | 0.00E+00 | 0.00E+00 | 4.69E-04 | 8.30E-04 | 5.51E-03 | 0.00E+00 | 3.57E-05 | 3.63E-02 | 2.40E-03 | 3.87E-02 | 3.88E-02 |
| | Vanadium | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 5.10E-02 | 0.00E+00 | 1.42E-03 | 1.12E-01 | 1.17E-02 | 1.24E-01 | 1.25E-01 |
| Shrew - 2 | tPCB | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-01 | 4.91E-02 | 3.65E-02 | 1.57E-02 | 2.35E-05 | 3.46E+00 | 2.78E-01 | 3.74E+00 | 3.74E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-02 | 5.62E-02 | 4.83E-01 | 3.96E-01 | 1.82E-02 | 2.35E+01 | 4.65E-01 | 2.40E+01 | 2.40E+01 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.31E-02 | 1.08E-01 | 6.43E-02 | 2.70E-03 | 1.81E+00 | 9.89E-02 | 1.91E+00 | 1.91E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 1.99E-03 | 3.59E-02 | 2.92E-02 | 1.83E-03 | 9.82E-01 | 6.00E-02 | 1.04E+00 | 1.04E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-04 | 5.27E-03 | 1.74E-01 | 1.16E-01 | 1.01E-02 | 8.87E+00 | 1.22E-01 | 8.99E+00 | 9.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-03 | 1.32E-03 | 8.39E-03 | 1.72E-02 | 6.45E-05 | 4.28E-01 | 1.96E-02 | 4.48E-01 | 4.48E-01 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.07E-03 | 7.75E-02 | 4.91E-02 | 2.57E-03 | 8.28E-01 | 6.27E-02 | 8.91E-01 | 8.94E-01 |

**Table E3-77**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**UAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **4E+00** | **1E+00** | **7E+00** | **2E+00** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 7E-01 | 3E-01 | 9E-01 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 9E-01 | 9E-01 | 6E-01 | 5E-01 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **4E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **5E+00** | **9E+00** | **5E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **1E+01** | **4E+00** | **2E+01** | **6E+00** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **2E+00** | **1E+00** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **5E+01** | **2E+01** | **8E+01** | **3E+01** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Hawk - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 1E+00 | 3E-01 | **4E+00** | **1E+00** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 2E-01 | 9E-02 | 3E-02 | 1E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 6E-02 | 6E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 4E-02 | 3E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 4E-01 | 2E-01 | 9E-02 | 4E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 6E-01 | 2E-01 | **1E+00** | 4E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 4E-01 | 2E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+01** | **4E+00** | **4E+01** | **1E+01** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **1E+00** | 4E-01 | 7E-01 | 2E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-01 | 8E-02 | 1E-02 | 1E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 5E-01 | 2E-01 | 3E-02 | 2E-02 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 1E-02 | 3E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+01** | **5E+00** | **1E+00** | 4E-01 | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 5E-01 | 2E-01 | 9E-03 | 4E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 8E-01 | 6E-01 | 4E-02 | 4E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-01 | 1E-01 | 8E-03 | 6E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 4.70E+00 | 8.90E+00 | **2E+00** | 1E+00 | 3E-02 | 1E-02 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | **6E+00** | **3E+00** | 3E-01 | 1E-01 | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-01 | 1E-01 | 2E-02 | 8E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-78**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**UAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | | | | Percent Diet (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Soil EPC (mg/kg)** | **Sediment EPC (mg/kg)** | **Water EPC (mg/L)** | **Aquatic Plants** | **Terrestrial Plants** | **Benthic Invertebrates (odonata larvae)** | **Soil Invertebrates (worms)** | **Aquatic Emergent Insects** | **Terrestrial Insects (Grasshoppers)** | **Terrestrial Spiders / Detritivores** | **Riparian Spiders / Detritivores** | **Small mammals/birds** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.45E+02** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.75E+01** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.04E+01** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.65E+01** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.45E+02** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **2.75E+01** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **1.04E+01** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **5.65E+01** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Barium** | **1.45E+02** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Chromium** | **2.75E+01** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Cobalt** | **1.04E+01** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Lead** | **5.65E+01** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 2** | **tPCB-mink** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Barium** | **1.45E+02** | **1.03E+02** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Chromium** | **2.75E+01** | **1.68E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Cobalt** | **1.04E+01** | **7.63E+00** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Lead** | **5.65E+01** | **3.03E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Raccoon - 1** | **tPCB** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Barium** | **1.45E+02** | **1.03E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Chromium** | **2.75E+01** | **1.68E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Cobalt** | **1.04E+01** | **7.63E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Lead** | **5.65E+01** | **3.03E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| **Raccoon - 2** | **tPCB** | **1.02E+01** | **4.09E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Barium** | **1.45E+02** | **1.03E+02** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Chromium** | **2.75E+01** | **1.68E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Cobalt** | **1.04E+01** | **7.63E+00** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Lead** | **5.65E+01** | **3.03E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Vanadium** | **2.02E+01** | **1.28E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |

**Table E3-78**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**UAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Percent Diet (%) | | | | | | | | | | Measured Tissue (mg/kg dry weight) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** | **Fish (all sizes)** | **Predator Fish** | **Forage Fish** | **Reptiles** | **Amphibians** | **Soil** | **Sediment** | **Aquatic Plants** | **Terrestrial Plants** | **Benthic Invertebrates (odonata larvae)** | **Soil Invertebrates (Worms / Spiders / Detritivores)** | **Aquatic Emergent Insects** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |
| **Raccoon - 2** | **tPCB** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 9.78E-01 | 2.57E-01 | 2.65E+00 | 4.52E+01 | 2.26E+01 |
| | **Barium** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 8.59E-02 | 5.98E-02 | 2.32E-01 | 5.58E+00 | 3.21E-01 |
| | **Vanadium** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |

**Table E3-78**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**UAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Terrestrial Insects** | **Terrestrial Spiders / Detritivores** | **Riparian Spiders / Detritivores** | **Small mammals/birds** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** | **Fish (all sizes)** | **Predator Fish** | **Forage Fish** | **Reptiles** | **Amphibians** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **GBH - mid** | **tPCB-med** | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **GBH - high** | **tPCB-high** | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Mink - 1** | **tPCB-mink** | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Mink - 2** | **tPCB-mink** | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Raccoon - 1** | **tPCB** | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Raccoon - 2** | **tPCB** | 9.60E-02 | 4.52E+01 | 4.52E+01 | 6.36E+00 | 2.65E+00 | 1.43E+01 | 3.80E+00 | 5.01E+01 | 1.11E+02 | 2.38E+01 | 1.67E+02 | 3.85E+01 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 3.77E-02 | 5.58E+00 | 5.58E+00 | 4.68E-02 | 2.32E-01 | 2.92E-01 | 1.90E-01 | 7.36E-01 | 1.47E+00 | 1.82E-01 | 8.75E-01 | 1.03E+00 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |

**Table E3-78**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**UAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Body Weight (kg)** | **Food Ingestion Rate** | **Soil Ingestion** | **Sediment Ingestion Rate** | **Water Ingestion Rate** | **Aquatic Plants** | **Terrestrial Plants** | **Benthic Invertebrates (odonata larvae)** | **Soil Invertebrates (worms)** | **Aquatic Emergent Insects** | **Terrestrial Insects** | **Terrestrial Spiders / Detritivores** | **Riparian Spiders / Detritivores** | **Small mammals/ birds** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** | **Fish (all sizes)** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.36E-01 | 4.02E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E+00 | 2.04E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 1.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.96E-01 | 5.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 1.03E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.07E-02 | 4.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.28E-01 | 8.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.36E-01 | 4.02E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 0.00E+00 | 0.00E+00 | 6.69E-03 | 8.29E+00 |
| | **Barium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 | 0.00E+00 | 0.00E+00 | 3.51E-01 | 2.45E+00 |
| | **Chromium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-03 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 7.54E-01 |
| | **Cobalt** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 7.53E-02 |
| | **Lead** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.35E-03 | 0.00E+00 | 0.00E+00 | 5.78E-03 | 9.05E-02 |
| | **Mercury** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.24E-05 | 0.00E+00 | 0.00E+00 | 3.35E-04 | 1.22E-01 |
| | **Vanadium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 1.97E-01 |
| **GBH - high** | **tPCB-high** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 0.00E+00 | 0.00E+00 | 6.69E-03 | 8.29E+00 |
| **Mink - 1** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 0.00E+00 | 0.00E+00 | 1.69E-02 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 0.00E+00 | 0.00E+00 | 1.69E-02 | 0.00E+00 |
| | **Barium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.45E-01 | 0.00E+00 | 0.00E+00 | 8.87E-01 | 0.00E+00 |
| | **Chromium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 |
| | **Cobalt** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 |
| | **Lead** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 0.00E+00 |
| | **Mercury** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-03 | 0.00E+00 | 0.00E+00 | 8.46E-04 | 0.00E+00 |
| | **Vanadium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-02 | 0.00E+00 | 0.00E+00 | 7.52E-03 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-02 | 0.00E+00 | 0.00E+00 | 7.52E-03 | 0.00E+00 |
| | **Barium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 3.94E-01 | 0.00E+00 |
| | **Chromium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 |
| | **Cobalt** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 |
| | **Lead** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 6.50E-03 | 0.00E+00 |
| | **Mercury** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.25E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-04 | 0.00E+00 | 0.00E+00 | 3.76E-04 | 0.00E+00 |
| | **Vanadium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 9.62E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 3.03E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 2.58E-04 | 1.21E-01 | 0.00E+00 | 9.04E-03 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 2.96E-02 |
| | **Barium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 |
| | **Chromium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 |
| | **Cobalt** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 |
| | **Lead** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 |
| | **Mercury** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 1.50E-02 | 0.00E+00 | 1.01E-04 | 1.50E-02 | 0.00E+00 | 6.65E-05 | 0.00E+00 | 0.00E+00 | 6.63E-04 | 4.34E-04 |
| | **Vanadium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 |
| **Raccoon - 2** | **tPCB** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 4.46E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-02 | 2.14E-03 | 4.99E-02 | 1.33E-02 | 3.09E-01 |
| | **Barium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-01 | 4.83E-02 | 1.19E-01 | 6.95E-01 | 9.12E-02 |
| | **Chromium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-02 | 3.11E-03 | 4.68E-02 | 4.84E-03 | 2.81E-02 |
| | **Cobalt** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-02 | 3.58E-03 | 1.35E-02 | 6.97E-02 | 2.81E-03 |
| | **Lead** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-02 | 4.83E-03 | 1.56E-02 | 1.15E-02 | 3.38E-03 |
| | **Mercury** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.92E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-04 | 1.87E-04 | 1.02E-03 | 6.63E-04 | 4.54E-03 |
| | **Vanadium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 8.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 | 2.06E-03 | 6.56E-03 | 4.84E-03 | 7.33E-03 |

**Table E3-78**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**UAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Predator Fish** | **Forage Fish** | **Reptiles** | **Amphibians** | **Soil** | **Sediment** | **Water** | **Soil + Prey** | **Sediment + Prey** | **Soil + Sediment + Prey** | **Soil + Sediment + Prey + Water** | **NOAEL TRV** | **LOAEL TRV** | **Soil NOAEL HQ (excluding water)** | **Soil LOAEL HQ (excluding water)** | **Sediment NOAEL HQ (excluding water)** | **Sediment LOAEL HQ (excluding water)** | **NOAEL HQ (excluding water)** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-01 | 6.55E-02 | 2.66E-05 | 4.18E+00 | 3.02E-01 | 4.48E+00 | 4.48E+00 | 4.67E-01 | 1.40E+00 | **9E+00** | **3E+00** | 6E-01 | 2E-01 | **1E+01** |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.33E+00 | 1.65E+00 | 2.06E-02 | 2.27E+01 | 6.99E+00 | 2.97E+01 | 2.97E+01 | 2.08E+01 | 4.17E+01 | **1E+00** | 5E-01 | 3E-01 | 2E-01 | **1E+00** |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.41E-01 | 2.69E-01 | 3.06E-03 | 2.17E+00 | 6.13E-01 | 2.78E+00 | 2.79E+00 | 2.66E+00 | 2.80E+00 | 8E-01 | 8E-01 | 2E-01 | 2E-01 | 1E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E-01 | 1.22E-01 | 2.07E-03 | 6.73E-01 | 5.18E-01 | 1.19E+00 | 1.19E+00 | 7.61E+00 | 7.80E+00 | 9E-02 | 9E-02 | 7E-02 | 7E-02 | 2E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.06E-01 | 4.85E-01 | 1.14E-02 | 1.12E+01 | 1.02E+00 | 1.22E+01 | 1.22E+01 | 1.63E+00 | 3.26E+00 | **7E+00** | **3E+00** | 6E-01 | 3E-01 | **7E+00** |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.50E-02 | 7.18E-02 | 7.31E-05 | 5.42E-01 | 9.24E-02 | 6.34E-01 | 6.35E-01 | 2.27E-02 | 6.80E-02 | **2E+01** | **8E+00** | **4E+00** | **1E+00** | **3E+01** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-01 | 2.05E-01 | 2.91E-03 | 1.16E+00 | 4.33E-01 | 1.59E+00 | 1.60E+00 | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **1E+00** | 6E-01 | **5E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-01 | 6.55E-02 | 2.66E-05 | 4.18E+00 | 3.02E-01 | 4.48E+00 | 4.48E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **3E+01** | **7E+00** | **2E+00** | **1E+02** |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-01 | 0.00E+00 | 1.44E-02 | 7.05E-06 | 1.12E-02 | 8.59E+00 | 8.60E+00 | 8.60E+00 | 4.67E-01 | 1.40E+00 | 2E-02 | 8E-03 | **2E+01** | **6E+00** | **2E+01** |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 3.63E-01 | 5.45E-03 | 7.65E-02 | 3.47E+00 | 3.55E+00 | 3.55E+00 | 2.08E+01 | 4.17E+01 | 4E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 5.91E-02 | 8.10E-04 | 8.25E-03 | 9.43E-01 | 9.51E-01 | 9.52E-01 | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 4E-01 | 3E-01 | 4E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 2.69E-02 | 5.49E-04 | 2.75E-02 | 1.48E-01 | 1.76E-01 | 1.76E-01 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 0.00E+00 | 1.07E-01 | 3.03E-03 | 9.35E-03 | 2.32E-01 | 2.41E-01 | 2.44E-01 | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 1E-01 | 7E-02 | 1E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.26E-03 | 0.00E+00 | 1.58E-02 | 1.94E-05 | 8.24E-05 | 1.45E-01 | 1.45E-01 | 1.45E-01 | 2.27E-02 | 6.80E-02 | 4E-03 | 1E-03 | **6E+00** | **2E+00** | **6E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 4.51E-02 | 7.70E-04 | 1.10E-02 | 2.56E-01 | 2.67E-01 | 2.67E-01 | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 7E-01 | 4E-01 | 8E-01 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-01 | 0.00E+00 | 1.44E-02 | 7.05E-06 | 1.12E-02 | 8.59E+00 | 8.60E+00 | 8.60E+00 | 4.33E-02 | 1.30E-01 | 3E-01 | 9E-02 | **2E+02** | **7E+01** | **2E+02** |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 2.47E-01 | 0.00E+00 | 4.94E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.38E-01 | 7.58E-01 | 8.96E-01 | 8.96E-01 | 5.00E-02 | 1.00E-01 | **3E+00** | **1E+00** | **2E+01** | **8E+00** | **2E+01** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 2.47E-01 | 0.00E+00 | 4.94E-01 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.38E-01 | 7.58E-01 | 8.96E-01 | 8.96E-01 | na | 5.00E-02 | -- | **3E+00** | -- | **2E+01** | -- |
| | **Barium** | 0.00E+00 | 3.42E-01 | 0.00E+00 | 5.66E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 9.45E-01 | 1.80E+00 | 2.74E+00 | 2.75E+00 | 5.18E+01 | 1.21E+02 | 2E-02 | 8E-03 | 3E-02 | 1E-02 | 5E-02 |
| | **Chromium** | 0.00E+00 | 1.15E-01 | 0.00E+00 | 2.32E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.02E-01 | 3.54E-01 | 4.56E-01 | 4.58E-01 | 2.40E+00 | 2.82E+00 | 4E-02 | 4E-02 | 1E-01 | 1E-01 | 2E-01 |
| | **Cobalt** | 0.00E+00 | 2.01E-01 | 0.00E+00 | 2.00E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 3.10E-01 | 6.50E-01 | 6.51E-01 | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 |
| | **Lead** | 0.00E+00 | 2.15E-02 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.16E-01 | 8.91E-02 | 2.05E-01 | 2.11E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 4E-02 |
| | **Mercury** | 0.00E+00 | 1.89E-03 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 1.02E-03 | 1.60E-02 | 1.70E-02 | 1.71E-02 | 7.50E-02 | 1.50E-01 | 1E-02 | 7E-03 | 2E-01 | 1E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 1.23E-02 | 0.00E+00 | 2.08E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 3.93E-02 | 1.75E-01 | 1.77E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 5E-03 | 4E-02 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 1.01E+00 | 0.00E+00 | 5.71E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.89E-02 | 1.08E+00 | 1.09E+00 | 1.09E+00 | 5.00E-02 | 1.00E-01 | 4E-01 | 2E-01 | **2E+01** | **1E+01** | **2E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 1.01E+00 | 0.00E+00 | 5.71E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.89E-02 | 1.08E+00 | 1.09E+00 | 1.09E+00 | na | 5.00E-02 | -- | 4E-01 | -- | **2E+01** | -- |
| | **Barium** | 0.00E+00 | 1.40E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.29E-01 | 1.90E+00 | 2.02E+00 | 2.04E+00 | 5.18E+01 | 1.21E+02 | 2E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 |
| | **Chromium** | 0.00E+00 | 4.73E-01 | 0.00E+00 | 2.68E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.39E-02 | 5.04E-01 | 5.18E-01 | 5.19E-01 | 2.40E+00 | 2.82E+00 | 6E-03 | 5E-03 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.80E-01 | 9.27E-01 | 9.28E-01 | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 |
| | **Lead** | 0.00E+00 | 8.80E-02 | 0.00E+00 | 6.11E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.58E-02 | 1.04E-01 | 1.20E-01 | 1.27E-01 | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 2E-02 | 1E-02 | 3E-02 |
| | **Mercury** | 0.00E+00 | 7.74E-03 | 0.00E+00 | 1.53E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 1.39E-04 | 9.69E-03 | 9.83E-03 | 9.87E-03 | 7.50E-02 | 1.50E-01 | 2E-03 | 9E-04 | 1E-01 | 6E-02 | 1E-01 |
| | **Vanadium** | 0.00E+00 | 5.05E-02 | 0.00E+00 | 2.40E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 5.66E-02 | 7.52E-02 | 7.69E-02 | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 0.00E+00 | 8.93E-02 | 3.09E-02 | 2.58E-02 | 0.00E+00 | 1.30E-05 | 2.80E-01 | 1.63E-01 | 4.43E-01 | 4.43E-01 | 2.30E-01 | 6.80E-01 | **1E+00** | 4E-01 | 7E-01 | 2E-01 | **2E+00** |
| | **Barium** | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 3.66E-01 | 0.00E+00 | 1.00E-02 | 4.64E+00 | 7.44E-01 | 5.38E+00 | 5.39E+00 | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 6.93E-02 | 0.00E+00 | 1.49E-03 | 2.28E-01 | 2.69E-02 | 2.55E-01 | 2.57E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 8E-02 | 1E-02 | 1E-02 | 1E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.63E-02 | 0.00E+00 | 1.01E-03 | 1.33E-01 | 8.34E-02 | 2.16E-01 | 2.17E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 1.43E-01 | 0.00E+00 | 5.59E-03 | 7.73E-01 | 1.55E-02 | 7.88E-01 | 7.94E-01 | 4.70E+00 | 8.90E+00 | 2E-01 | 9E-02 | 3E-03 | 2E-03 | 2E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 4.69E-04 | 8.30E-04 | 7.08E-03 | 0.00E+00 | 3.57E-05 | 3.79E-02 | 2.40E-03 | 4.03E-02 | 4.03E-02 | 7.50E-02 | 1.50E-01 | 5E-01 | 3E-01 | 3E-02 | 2E-02 | 5E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 5.10E-02 | 0.00E+00 | 1.42E-03 | 1.12E-01 | 1.17E-02 | 1.24E-01 | 1.25E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-01 | 0.00E+00 | 1.03E-02 | 1.30E-05 | 3.24E-02 | 5.13E-01 | 5.45E-01 | 5.45E-01 | 2.30E-01 | 6.80E-01 | 1E-01 | 5E-02 | **2E+00** | 8E-01 | **2E+00** |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 2.60E-01 | 1.00E-02 | 2.21E-01 | 1.68E+00 | 1.90E+00 | 1.91E+00 | 5.18E+01 | 1.21E+02 | 4E-03 | 2E-03 | 3E-02 | 1E-02 | 4E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-02 | 0.00E+00 | 4.23E-02 | 1.49E-03 | 2.39E-02 | 1.98E-01 | 2.21E-01 | 2.23E-01 | 2.40E+00 | 2.82E+00 | 1E-02 | 8E-03 | 8E-02 | 7E-02 | 9E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-03 | 0.00E+00 | 1.92E-02 | 1.01E-03 | 7.96E-02 | 2.72E-01 | 3.52E-01 | 3.53E-01 | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 5E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 7.64E-02 | 5.59E-03 | 2.71E-02 | 1.57E-01 | 1.84E-01 | 1.90E-01 | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 3E-02 | 2E-02 | 4E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.32E-03 | 0.00E+00 | 1.13E-02 | 3.57E-05 | 2.39E-04 | 2.14E-02 | 2.17E-02 | 2.17E-02 | 7.50E-02 | 1.50E-01 | 3E-03 | 2E-03 | 3E-01 | 1E-01 | 3E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-03 | 0.00E+00 | 3.23E-02 | 1.42E-03 | 3.19E-02 | 6.71E-02 | 9.90E-02 | 1.00E-01 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 2E-02 | 8E-03 | 2E-02 |

**Table E3-78**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**UAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Hazard Quotients | | |
|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **LOAEL HQ (excluding water)** | **NOAEL HQ (including water)** | **LOAEL HQ (including water)** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **3E+00** | **1E+01** | **3E+00** |
| | **Barium** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 1E+00 | 1E+00 | 1E+00 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | **4E+00** | **8E+00** | **4E+00** |
| | **Mercury** | **9E+00** | **3E+01** | **9E+00** |
| | **Vanadium** | **2E+00** | **5E+00** | **2E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **3E+01** | **1E+02** | **3E+01** |
| **GBH - mid** | **tPCB-med** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 3E-01 | 4E-01 | 3E-01 |
| | **Cobalt** | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 7E-02 | 1E-01 | 7E-02 |
| | **Mercury** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 4E-01 | 8E-01 | 4E-01 |
| **GBH - high** | **tPCB-high** | **7E+01** | **2E+02** | **7E+01** |
| **Mink - 1** | **tPCB-mink** | **9E+00** | **2E+01** | **9E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 6E-02 | 9E-02 | 7E-02 |
| | **Lead** | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 2E-02 | 4E-02 | 2E-02 |
| **Mink - 2** | **tPCB-mink** | **1E+01** | **2E+01** | **1E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7E-02 | 1E-01 | 7E-02 |
| | **Vanadium** | 9E-03 | 2E-02 | 9E-03 |
| **Raccoon - 1** | **tPCB** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 9E-02 | 2E-01 | 9E-02 |
| | **Mercury** | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 1E-02 | 3E-02 | 2E-02 |
| **Raccoon - 2** | **tPCB** | 8E-01 | **2E+00** | 8E-01 |
| | **Barium** | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 8E-02 | 9E-02 | 8E-02 |
| | **Cobalt** | 4E-02 | 5E-02 | 4E-02 |
| | **Lead** | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 1E-02 | 2E-02 | 1E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-79**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**UAA Soil - Combined**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values (mg/kg dw) | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **9.51E+00** | **4.09E+00** | 1.00E+01 | 1.04E-01 | NA | 1.04E-01 | 4.16E+00 | -- | 4.16E+00 | 2.80E+01 | 6.60E+01 | 1E-01 | 6E-02 | -- | -- | 1E-01 | 6E-02 |
| | **Mercury** | **2.19E+00** | **4.48E+00** | 8.00E-01 | 7.00E-03 | NA | 7.01E-03 | 2.24E-02 | -- | 2.24E-02 | 4.40E-01 | 8.00E-01 | 5E-02 | 3E-02 | -- | -- | 5E-02 | 3E-02 |
| **Mourning Dove - high** | **tPCB-high** | **9.51E+00** | **4.09E+00** | 1.00E+01 | 1.04E-01 | NA | 1.04E-01 | 4.16E+00 | -- | 4.16E+00 | 2.10E+00 | 4.50E+00 | **2E+00** | 9E-01 | -- | -- | **2E+00** | 9E-01 |
| **Blue Jay - mid** | **tPCB-med** | **9.51E+00** | **4.09E+00** | 1.00E+01 | 1.35E-01 | NA | 1.35E-01 | 5.39E+00 | -- | 5.39E+00 | 2.80E+01 | 6.60E+01 | 2E-01 | 8E-02 | -- | -- | 2E-01 | 8E-02 |
| | **Mercury** | **2.19E+00** | **4.48E+00** | 8.00E-01 | 1.04E-02 | NA | 1.05E-02 | 3.34E-02 | -- | 3.34E-02 | 4.40E-01 | 8.00E-01 | 8E-02 | 4E-02 | -- | -- | 8E-02 | 4E-02 |
| **Blue Jay - high** | **tPCB-high** | **9.51E+00** | **4.09E+00** | 1.00E+01 | 1.35E-01 | NA | 1.35E-01 | 5.39E+00 | -- | 5.39E+00 | 2.10E+00 | 4.50E+00 | **3E+00** | **1E+00** | -- | -- | **3E+00** | **1E+00** |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **9.51E+00** | **4.09E+00** | 1.00E+01 | 1.11E-01 | NA | 1.11E-01 | 4.45E+00 | -- | 4.45E+00 | 2.80E+01 | 6.60E+01 | 2E-01 | 7E-02 | -- | -- | 2E-01 | 7E-02 |
| | **Mercury** | **2.19E+00** | **4.48E+00** | 8.00E-01 | 9.56E-03 | NA | 9.56E-03 | 3.06E-02 | -- | 3.06E-02 | 4.40E-01 | 8.00E-01 | 7E-02 | 4E-02 | -- | -- | 7E-02 | 4E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **9.51E+00** | **4.09E+00** | 1.00E+01 | 1.11E-01 | NA | 1.11E-01 | 4.45E+00 | -- | 4.45E+00 | 2.10E+00 | 4.50E+00 | **2E+00** | 1E+00 | -- | -- | **2E+00** | 1E+00 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **9.51E+00** | **4.09E+00** | 1.00E+01 | 4.23E-02 | 2.93E-02 | 7.17E-02 | 1.69E+00 | 1.17E+00 | 2.87E+00 | 2.80E+01 | 6.60E+01 | 6E-02 | 3E-02 | 4E-02 | 2E-02 | 1E-01 | 4E-02 |
| | **Mercury** | **2.19E+00** | **4.48E+00** | 8.00E-01 | 4.17E-03 | 1.00E-02 | 1.42E-02 | 1.33E-02 | 3.21E-02 | 4.55E-02 | 4.40E-01 | 8.00E-01 | 3E-02 | 2E-02 | 7E-02 | 4E-02 | 1E-01 | 6E-02 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **9.51E+00** | **4.09E+00** | 1.00E+01 | 4.23E-02 | 2.93E-02 | 7.17E-02 | 1.69E+00 | 1.17E+00 | 2.87E+00 | 2.10E+00 | 4.50E+00 | 8E-01 | 4E-01 | 6E-01 | 3E-01 | **1E+00** | 6E-01 |
| **Hawk - mid** | **tPCB-med** | **9.51E+00** | **4.09E+00** | 1.00E+01 | 5.90E-01 | 3.93E+00 | 4.52E+00 | 2.36E+01 | 1.57E+02 | 1.81E+02 | 2.80E+01 | 6.60E+01 | 8E-01 | 4E-01 | **6E+00** | **2E+00** | **6E+00** | **3E+00** |
| | **Mercury** | **2.19E+00** | **4.48E+00** | 8.00E-01 | 1.26E-02 | 4.03E-02 | 5.30E-02 | 4.05E-02 | 1.29E-01 | 1.70E-01 | 4.40E-01 | 8.00E-01 | 9E-02 | 5E-02 | 3E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | **9.51E+00** | **4.09E+00** | 1.00E+01 | 5.90E-01 | 3.93E+00 | 4.52E+00 | 2.36E+01 | 1.57E+02 | 1.81E+02 | 2.10E+00 | 4.50E+00 | **1E+01** | **5E+00** | **7E+01** | **3E+01** | **9E+01** | **4E+01** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-80**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**UAA, Aquatic and Subarea Soil - Riparian**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values (mg/kg dw) | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Tree Swallow - mid** | **tPCB-med** | **1.02E+01** | **4.09E+00** | 1.00E+01 | NA | 4.16E-01 | 4.16E-01 | -- | 1.66E+01 | 1.66E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | 8.00E-01 | NA | 7.45E-03 | 7.45E-03 | -- | 2.38E-02 | 2.38E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Tree Swallow - high** | **tPCB-high** | **1.02E+01** | **4.09E+00** | 1.00E+01 | NA | 4.16E-01 | 4.16E-01 | -- | 1.66E+01 | 1.66E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **1.02E+01** | **4.09E+00** | 1.00E+01 | 1.89E-01 | 2.06E-02 | 2.09E-01 | 7.55E+00 | 8.24E-01 | 8.38E+00 | 2.80E+01 | 6.60E+01 | 3E-01 | 1E-01 | 3E-02 | 1E-02 | 3E-01 | 1E-01 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | 8.00E-01 | 1.86E-02 | 5.01E-03 | 2.36E-02 | 5.95E-02 | 1.60E-02 | 7.55E-02 | 4.40E-01 | 8.00E-01 | 1E-01 | 7E-02 | 4E-02 | 2E-02 | 2E-01 | 9E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **1.02E+01** | **4.09E+00** | 1.00E+01 | 1.89E-01 | 2.06E-02 | 2.09E-01 | 7.55E+00 | 8.24E-01 | 8.38E+00 | 2.10E+00 | 4.50E+00 | **4E+00** | **2E+00** | 4E-01 | 2E-01 | **4E+00** | **2E+00** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1.02E+01** | **4.09E+00** | 1.00E+01 | NA | 5.37E-01 | 5.37E-01 | -- | 2.15E+01 | 2.15E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | 8.00E-01 | NA | 2.52E-02 | 2.52E-02 | -- | 8.08E-02 | 8.08E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1.02E+01** | **4.09E+00** | 1.00E+01 | NA | 5.37E-01 | 5.37E-01 | -- | 2.15E+01 | 2.15E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **1.02E+01** | **4.09E+00** | 1.00E+01 | NA | 1.59E+00 | 1.59E+00 | -- | 6.36E+01 | 6.36E+01 | 2.80E+01 | 6.60E+01 | -- | -- | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | 8.00E-01 | NA | 1.67E-02 | 1.67E-02 | -- | 5.35E-02 | 5.35E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **1.02E+01** | **4.09E+00** | 1.00E+01 | NA | 1.59E+00 | 1.59E+00 | -- | 6.36E+01 | 6.36E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **1.02E+01** | **4.09E+00** | 1.00E+01 | NA | 1.28E+00 | 1.28E+00 | -- | 5.14E+01 | 5.14E+01 | 2.80E+01 | 6.60E+01 | -- | -- | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | **2.81E+00** | **4.48E+00** | 8.00E-01 | NA | 1.57E-02 | 1.57E-02 | -- | 5.02E-02 | 5.02E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **1.02E+01** | **4.09E+00** | 1.00E+01 | NA | 1.28E+00 | 1.28E+00 | -- | 5.14E+01 | 5.14E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **2E+01** | **1E+01** | **2E+01** | **1E+01** |
| **GBH - mid** | **tPCB-med** | **1.02E+01** | **4.09E+00** | 1.00E+01 | 2.98E-02 | 3.53E+01 | 3.53E+01 | 1.19E+00 | 1.41E+03 | 1.41E+03 | 2.80E+01 | 6.60E+01 | 4E-02 | 2E-02 | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| | **Mercury** | **2.81E+00** | **4.48E+00** | 8.00E-01 | 1.12E-04 | 5.04E-01 | 5.04E-01 | 3.59E-04 | 1.61E+00 | 1.61E+00 | 4.40E-01 | 8.00E-01 | 8E-04 | 4E-04 | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **GBH - high** | **tPCB-high** | **1.02E+01** | **4.09E+00** | 1.00E+01 | 2.98E-02 | 3.53E+01 | 3.53E+01 | 1.19E+00 | 1.41E+03 | 1.41E+03 | 2.10E+00 | 4.50E+00 | 6E-01 | 3E-01 | **7E+02** | **3E+02** | **7E+02** | **3E+02** |
| **Osprey - mid** | **tPCB-med** | **1.02E+01** | **4.09E+00** | 1.00E+01 | NA | 1.03E+01 | 1.03E+01 | -- | 4.11E+02 | 4.11E+02 | 2.80E+01 | 6.60E+01 | -- | -- | **1E+01** | **6E+00** | **1E+01** | **6E+00** |
| | **Mercury** | **2.81E+00** | **4.48E+00** | 8.00E-01 | NA | 1.33E-01 | 1.33E-01 | -- | 4.26E-01 | 4.26E-01 | 4.40E-01 | 8.00E-01 | -- | -- | 1E+00 | 5E-01 | 1E+00 | 5E-01 |
| **Osprey - high** | **tPCB-high** | **1.02E+01** | **4.09E+00** | 1.00E+01 | NA | 1.03E+01 | 1.03E+01 | -- | 4.11E+02 | 4.11E+02 | 2.10E+00 | 4.50E+00 | -- | -- | **2E+02** | **9E+01** | **2E+02** | **9E+01** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-81**

**Lower Trophic Level Terrestrial Risk Calculations For Reach C5**

**Anniston PCB Site, Anniston, Alabama**

| Media | Receptor Community | COPC | Soil EPC (mg/kg) | Toxicity Benchmarks[a] (mg/kg) | | Hazard Quotients | |
|---|---|---|---|---|---|---|---|
| | | | | NOAEL | LOAEL | NOAEL | LOAEL |
| Soil - North | **Terrestrial Plants** | **PCB** | 1.01E+00 | 4.00E+01 | NA | 3E-02 | -- |
| | | **Chromium** | 1.99E+01 | 1.00E+00 | NA | **2E+01** | -- |
| | | **Lead** | 2.18E+01 | 1.20E+02 | NA | 2E-01 | -- |
| | | **Mercury** | 7.31E-01 | 3.00E-01 | NA | **2E+00** | -- |
| | | **Vanadium** | 2.81E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 1.01E+00 | 3.60E+00 | 3.60E+01 | 3E-01 | 3E-02 |
| | | **Chromium** | 1.99E+01 | 4.00E-01 | NA | **5E+01** | -- |
| | | **Lead** | 2.18E+01 | 1.70E+03 | NA | 1E-02 | -- |
| | | **Mercury** | 7.31E-01 | 1.00E-01 | 0.23 | **7E+00** | **3E+00** |
| | | **Vanadium** | 2.81E+01 | NA | NA | -- | -- |
| Soil - South | **Terrestrial Plants** | **PCB** | 1.45E+00 | 4.00E+01 | NA | 4E-02 | -- |
| | | **Chromium** | 2.50E+01 | 1.00E+00 | NA | **3E+01** | -- |
| | | **Lead** | 5.39E+01 | 1.20E+02 | NA | 4E-01 | -- |
| | | **Mercury** | 9.06E-01 | 3.00E-01 | NA | **3E+00** | -- |
| | | **Vanadium** | 3.21E+01 | 2.00E+00 | NA | **2E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 1.45E+00 | 3.60E+00 | 3.60E+01 | 4E-01 | 4E-02 |
| | | **Chromium** | 2.50E+01 | 4.00E-01 | NA | **6E+01** | -- |
| | | **Lead** | 5.39E+01 | 1.70E+03 | NA | 3E-02 | -- |
| | | **Mercury** | 9.06E-01 | 1.00E-01 | 0.23 | **9E+00** | **4E+00** |
| | | **Vanadium** | 3.21E+01 | NA | NA | -- | -- |
| Soil - Riparian | **Terrestrial Plants** | **PCB** | 2.88E+00 | 4.00E+01 | NA | 7E-02 | -- |
| | | **Chromium** | 4.19E+01 | 1.00E+00 | NA | **4E+01** | -- |
| | | **Lead** | 5.27E+01 | 1.20E+02 | NA | 4E-01 | -- |
| | | **Mercury** | 1.38E+00 | 3.00E-01 | NA | **5E+00** | -- |
| | | **Vanadium** | 1.57E+01 | 2.00E+00 | NA | **8E+00** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 2.88E+00 | 3.60E+00 | 3.60E+01 | 8E-01 | 8E-02 |
| | | **Chromium** | 4.19E+01 | 4.00E-01 | NA | **1E+02** | -- |
| | | **Lead** | 5.27E+01 | 1.70E+03 | NA | 3E-02 | -- |
| | | **Mercury** | 1.38E+00 | 1.00E-01 | 0.23 | **1E+01** | **6E+00** |
| | | **Vanadium** | 1.57E+01 | NA | NA | -- | -- |

**Notes:**

a = NOAELs represent chronic values and LOAELs represent acute values
COPC = constituent of potential concern
EPC - exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
NA = not applicable
NOAEL = no observed adverse effect level
OU = Operable Unit
PCB = total polychlorinated biphenyl

**Bold indicates hazard quotients greater than 1**

**Table E3-82**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C5**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| Tree Swallow - mid | tPCB-med | 8.26E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 2.51E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 5.47E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 3.43E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 7.10E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 8.15E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 4.31E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Tree Swallow - high | tPCB-high | 8.26E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Spotted Sandpiper - 2 - mid | tPCB-med | 8.26E-01 | 1.57E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Barium | 2.51E+02 | 1.21E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Chromium | 5.47E+01 | 1.80E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Cobalt | 3.43E+01 | 1.22E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Lead | 7.10E+01 | 6.73E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Mercury | 8.15E-01 | 4.30E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Vanadium | 4.31E+01 | 1.71E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| Spotted Sandpiper - 2 - high | tPCB-high | 8.26E-01 | 1.57E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| Kingfisher - 1 - mid | tPCB-med | 8.26E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Barium | 2.51E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Chromium | 5.47E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Cobalt | 3.43E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Lead | 7.10E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Mercury | 8.15E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Vanadium | 4.31E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| Kingfisher - 1 - high | tPCB-high | 8.26E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| Kingfisher - 2 - mid | tPCB-med | 8.26E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Barium | 2.51E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Chromium | 5.47E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Cobalt | 3.43E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Lead | 7.10E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Mercury | 8.15E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Vanadium | 4.31E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| Kingfisher - 2 - high | tPCB-high | 8.26E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| Osprey - mid | tPCB-med | 8.26E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 2.51E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 5.47E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 3.43E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 7.10E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 8.15E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 4.31E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Osprey - high | tPCB-high | 8.26E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Bat | tPCB | 8.26E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 2.51E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 5.47E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 3.43E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 7.10E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 8.15E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 4.31E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Otter | tPCB-mink | 8.26E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Otter (Alternative TRV) | tPCB-mink | 8.26E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 2.51E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 5.47E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 3.43E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 7.10E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 8.15E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 4.31E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-82**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C5**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | |
|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Tree Swallow - mid** | **tPCB-med** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Tree Swallow - high** | **tPCB-high** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Osprey - mid** | **tPCB-med** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Osprey - high** | **tPCB-high** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Bat** | **tPCB** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Otter** | **tPCB-mink** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |

**Table E3-82**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C5**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-82**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C5**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 1.06E-01 | 1.06E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 3.21E+00 | 3.24E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.44E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 1.44E+01 | 1.44E+01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 6.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 6.10E-01 | 6.13E-01 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 3.50E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 3.50E-01 | 3.64E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 2.51E-02 | 2.52E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 8.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 8.28E-01 | 8.31E-01 | 3.44E-01 | 7.00E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 1.06E-01 | 1.06E-01 | 4.33E-02 | 1.30E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 8.41E-02 | 0.00E+00 | 4.38E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.65E-02 | 2.66E-05 | 4.49E+00 | 4.49E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 2.04E+01 | 0.00E+00 | 2.04E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.04E+00 | 2.06E-02 | 4.88E+01 | 4.88E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 1.72E+00 | 0.00E+00 | 1.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 3.06E-03 | 5.19E+00 | 5.19E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 3.80E+00 | 0.00E+00 | 3.80E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E+00 | 2.07E-03 | 8.70E+00 | 8.70E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 5.04E+00 | 0.00E+00 | 5.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E+00 | 1.14E-02 | 1.24E+01 | 1.24E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 2.64E-02 | 0.00E+00 | 7.26E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E-02 | 7.31E-05 | 1.25E-01 | 1.25E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 1.68E+00 | 0.00E+00 | 1.68E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E+00 | 2.91E-03 | 4.73E+00 | 4.74E+00 | 3.44E-01 | 7.00E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 8.41E-02 | 0.00E+00 | 4.38E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.65E-02 | 2.66E-05 | 4.49E+00 | 4.49E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.86E+00 | 0.00E+00 | 0.00E+00 | 2.60E-03 | 1.72E-05 | 2.87E+00 | 2.87E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E+01 | 0.00E+00 | 0.00E+00 | 7.91E-01 | 1.33E-02 | 3.79E+01 | 3.79E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.10E+00 | 0.00E+00 | 0.00E+00 | 1.72E-01 | 1.98E-03 | 5.28E+00 | 5.28E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 1.08E-01 | 1.34E-03 | 3.15E+00 | 3.15E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.44E-01 | 0.00E+00 | 0.00E+00 | 2.24E-01 | 7.40E-03 | 4.67E-01 | 4.75E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.75E-02 | 0.00E+00 | 0.00E+00 | 2.57E-03 | 4.73E-05 | 6.01E-02 | 6.01E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 1.88E-03 | 1.23E+00 | 1.23E+00 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.86E+00 | 0.00E+00 | 0.00E+00 | 2.60E-03 | 1.72E-05 | 2.87E+00 | 2.87E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.39E-02 | 0.00E+00 | 0.00E+00 | 2.18E+00 | 0.00E+00 | 1.62E-02 | 2.60E-03 | 1.72E-05 | 2.23E+00 | 2.23E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.27E+01 | 0.00E+00 | 0.00E+00 | 2.82E+01 | 0.00E+00 | 2.32E+00 | 7.91E-01 | 1.33E-02 | 7.40E+01 | 7.40E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-01 | 0.00E+00 | 0.00E+00 | 3.88E+00 | 0.00E+00 | 4.76E-01 | 1.72E-01 | 1.98E-03 | 4.65E+00 | 4.66E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.05E-01 | 1.08E-01 | 1.34E-03 | 3.13E+00 | 3.13E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-01 | 0.00E+00 | 0.00E+00 | 1.85E-01 | 0.00E+00 | 2.20E-01 | 2.24E-01 | 7.40E-03 | 9.04E-01 | 9.12E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.37E-03 | 0.00E+00 | 0.00E+00 | 4.37E-02 | 0.00E+00 | 4.11E-03 | 2.57E-03 | 4.73E-05 | 5.57E-02 | 5.58E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.42E-01 | 0.00E+00 | 0.00E+00 | 8.29E-01 | 0.00E+00 | 6.13E-02 | 1.36E-01 | 1.88E-03 | 1.27E+00 | 1.27E+00 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.39E-02 | 0.00E+00 | 0.00E+00 | 2.18E+00 | 0.00E+00 | 1.62E-02 | 2.60E-03 | 1.72E-05 | 2.23E+00 | 2.23E+00 | 4.33E-02 | 1.30E-01 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 1.38E+00 | 1.38E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.24E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 5.24E+00 | 5.25E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.75E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 6.75E-01 | 6.76E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 1.80E-01 | 1.80E-01 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 1.28E-01 | 1.32E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 2.70E-02 | 2.71E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 1.48E-01 | 1.49E-01 | 3.44E-01 | 7.00E-01 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 1.38E+00 | 1.38E+00 | 4.33E-02 | 1.30E-01 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 7.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 7.82E-02 | 7.82E-02 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 2.37E+00 | 2.39E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.06E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 1.06E+01 | 1.06E+01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 4.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 4.51E-01 | 4.53E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 2.59E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 2.59E-01 | 2.69E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 1.85E-02 | 1.86E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 6.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 6.11E-01 | 6.14E-01 | 4.16E+00 | 8.31E+00 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.28E-01 | 2.95E-01 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 8.13E-01 | 8.13E-01 | 5.00E-02 | 1.00E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.28E-01 | 2.95E-01 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 8.13E-01 | 8.13E-01 | na | 5.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E+00 | 4.50E-01 | 2.46E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 4.16E+00 | 4.17E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E-01 | 6.69E-02 | 3.39E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 5.66E-01 | 5.67E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.26E-02 | 1.58E-02 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.60E-01 | 2.61E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E-02 | 1.39E-02 | 1.62E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 6.05E-02 | 6.59E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.40E-03 | 8.37E-03 | 3.82E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 1.86E-02 | 1.86E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.51E-02 | 9.22E-03 | 7.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 1.17E-01 | 1.18E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-82**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C5**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Barium** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | **5E+00** | **5E+00** | **5E+00** | **5E+00** |
| | **Cobalt** | 8E-02 | 8E-02 | 8E-02 | 8E-02 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Tree Swallow - high** | **tPCB-high** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Barium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Mercury** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | **1E+01** | **7E+00** | **1E+01** | **7E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1E+02** | **3E+01** | **1E+02** | **3E+01** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Barium** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Vanadium** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Kingfisher - 1 - high** | **tPCB-high** | **7E+01** | **2E+01** | **7E+01** | **2E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Mercury** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Kingfisher - 2 - high** | **tPCB-high** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Osprey - mid** | **tPCB-med** | **3E+00** | 1E+00 | **3E+00** | 1E+00 |
| | **Barium** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Cobalt** | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Osprey - high** | **tPCB-high** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| **Bat** | **tPCB** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Barium** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | **4E+00** | **4E+00** | **4E+00** | **4E+00** |
| | **Cobalt** | 6E-02 | 5E-02 | 6E-02 | 5E-02 |
| | **Lead** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Mercury** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| **Otter** | **tPCB-mink** | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Otter (Alternative TRV)** | **tPCB-mink** | **--** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 8E-02 | 3E-02 | 8E-02 | 3E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 4E-02 | 3E-02 | 4E-02 | 3E-02 |
| | **Lead** | 1E-02 | 7E-03 | 1E-02 | 7E-03 |
| | **Mercury** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-83**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **1.01E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.18E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **1.01E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.01E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.18E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **1.01E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.01E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.18E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.01E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **1.01E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.18E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **1.01E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.18E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **1.01E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.18E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **1.01E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.18E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **1.01E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.18E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-83**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioacccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-02 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 5.16E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E-02 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.52E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.90E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 9.67E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.28E-01 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.51E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-02 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.36E-02 | 2.88E-03 | 0.00E+00 | 7.04E-02 | 0.00E+00 | 2.16E-02 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 4.36E-03 | 2.27E-04 | 0.00E+00 | 2.76E-02 | 0.00E+00 | 1.57E-02 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.13E-01 | 1.24E-01 | 0.00E+00 | 3.07E-01 | 0.00E+00 | 4.26E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 8.17E-03 | 3.02E-03 | 0.00E+00 | 2.43E-01 | 0.00E+00 | 4.67E-01 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.38E-02 | 3.88E-03 | 0.00E+00 | 2.96E-01 | 0.00E+00 | 6.01E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.36E-02 | 2.88E-03 | 0.00E+00 | 7.04E-02 | 0.00E+00 | 2.16E-02 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.35E-02 | 1.88E-02 | 1.53E-01 | 3.16E-01 | 0.00E+00 | 3.44E-02 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 8.02E-04 | 1.48E-03 | 6.00E-02 | 1.24E-01 | 0.00E+00 | 2.49E-02 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.92E-02 | 8.09E-01 | 6.67E-01 | 1.38E+00 | 0.00E+00 | 6.79E-01 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.50E-03 | 1.97E-02 | 5.28E-01 | 1.09E+00 | 0.00E+00 | 7.44E-01 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 4.37E-03 | 2.53E-02 | 6.44E-01 | 1.33E+00 | 0.00E+00 | 9.59E-01 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.35E-02 | 1.88E-02 | 1.53E-01 | 3.16E-01 | 0.00E+00 | 3.44E-02 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.47E-03 | 5.59E-03 | 1.98E-01 | 1.36E-01 | 0.00E+00 | 3.87E-03 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 5.61E-04 | 4.39E-04 | 7.77E-02 | 5.35E-02 | 0.00E+00 | 2.80E-03 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.74E-02 | 2.41E-01 | 8.63E-01 | 5.95E-01 | 0.00E+00 | 7.63E-02 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.05E-03 | 5.86E-03 | 6.82E-01 | 4.70E-01 | 0.00E+00 | 8.36E-02 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.06E-03 | 7.52E-03 | 8.33E-01 | 5.74E-01 | 0.00E+00 | 1.08E-01 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 9.04E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-04 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 5.36E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-04 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.62E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.83E-03 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.00E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.39E-03 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.92E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.23E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-01 | 2.57E-03 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-03 | 1.87E-03 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.53E-01 | 5.08E-02 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-01 | 5.57E-02 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 7.17E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.97E-03 | 0.00E+00 | 6.34E-03 | 0.00E+00 | 6.23E-02 | 1.07E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.35E-04 | 0.00E+00 | 2.49E-03 | 0.00E+00 | 1.68E-03 | 7.75E-04 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.15E-02 | 0.00E+00 | 2.76E-02 | 0.00E+00 | 1.78E-01 | 2.11E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.41E-04 | 0.00E+00 | 2.19E-02 | 0.00E+00 | 6.37E-02 | 2.31E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.28E-03 | 0.00E+00 | 2.67E-02 | 0.00E+00 | 1.87E-01 | 2.98E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.17E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.49E-02 | 1.07E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.92E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-03 | 7.75E-04 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.38E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-01 | 2.11E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.66E-02 | 2.31E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.78E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.98E-02 | 1.45E-03 |

**Table E3-83**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 1.07E-01 | 1.07E-01 | 4.67E-01 | 1.40E+00 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 1.95E-02 | 1.96E-02 | 2.27E-02 | 6.80E-02 | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Chromium** | 6.43E-01 | 6.45E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 4.38E-01 | 4.46E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 5.80E-01 | 5.82E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.07E-01 | 1.07E-01 | 4.33E-02 | 1.30E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Blue Jay - mid** | **tPCB-med** | 1.69E-01 | 1.69E-01 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | 4.79E-02 | 4.79E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Chromium** | 1.07E+00 | 1.07E+00 | 2.66E+00 | 2.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 7.21E-01 | 7.30E-01 | 1.63E+00 | 3.26E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 9.25E-01 | 9.28E-01 | 3.44E-01 | 7.00E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | 1.69E-01 | 1.69E-01 | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 5.36E-01 | 5.36E-01 | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 2.11E-01 | 2.11E-01 | 2.27E-02 | 6.80E-02 | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Chromium** | 3.57E+00 | 3.58E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | 2.38E+00 | 2.40E+00 | 1.63E+00 | 3.26E+00 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Vanadium** | 2.96E+00 | 2.97E+00 | 3.44E-01 | 7.00E-01 | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 5.36E-01 | 5.36E-01 | 4.33E-02 | 1.30E-01 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Shrew - 1** | **tPCB** | 3.53E-01 | 3.53E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 5E-01 | **2E+00** | 5E-01 |
| | **Mercury** | 1.35E-01 | 1.35E-01 | 7.50E-02 | 1.50E-01 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Chromium** | 1.80E+00 | 1.80E+00 | 2.40E+00 | 2.82E+00 | 8E-01 | 6E-01 | 8E-01 | 6E-01 |
| | **Lead** | 1.24E+00 | 1.25E+00 | 4.70E+00 | 8.90E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 1.53E+00 | 1.53E+00 | 4.16E+00 | 8.31E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Deer** | **tPCB** | 9.34E-03 | 9.35E-03 | 2.30E-01 | 6.80E-01 | 4E-02 | 1E-02 | 4E-02 | 1E-02 |
| | **Mercury** | 7.50E-04 | 7.78E-04 | 7.50E-02 | 1.50E-01 | 1E-02 | 5E-03 | 1E-02 | 5E-03 |
| | **Chromium** | 3.20E-02 | 3.32E-02 | 2.40E+00 | 2.82E+00 | 1E-02 | 1E-02 | 1E-02 | 1E-02 |
| | **Lead** | 7.40E-03 | 1.18E-02 | 4.70E+00 | 8.90E+00 | 2E-03 | 8E-04 | 3E-03 | 1E-03 |
| | **Vanadium** | 1.12E-02 | 1.23E-02 | 4.16E+00 | 8.31E+00 | 3E-03 | 1E-03 | 3E-03 | 1E-03 |
| **Weasel** | **tPCB** | 1.26E-01 | 1.26E-01 | 2.30E-01 | 6.80E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 5.21E-03 | 5.25E-03 | 7.50E-02 | 1.50E-01 | 7E-02 | 3E-02 | 7E-02 | 4E-02 |
| | **Chromium** | 4.04E-01 | 4.06E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 1.82E-01 | 1.90E-01 | 4.70E+00 | 8.90E+00 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Vanadium** | 4.43E-01 | 4.45E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 7.36E-02 | 7.37E-02 | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 5.18E-03 | 5.22E-03 | 7.50E-02 | 1.50E-01 | 7E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 2.38E-01 | 2.40E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Lead** | 1.09E-01 | 1.15E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Vanadium** | 2.45E-01 | 2.46E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 7.71E-02 | 7.71E-02 | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 2.87E-03 | 2.90E-03 | 7.50E-02 | 1.50E-01 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.38E-01 | 2.40E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 8E-02 | 1E-01 | 9E-02 |
| | **Lead** | 9.99E-02 | 1.06E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Vanadium** | 2.55E-01 | 2.56E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-84**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **1.45E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **5.39E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **1.45E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.45E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **5.39E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **1.45E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.45E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **5.39E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.45E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **1.45E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **5.39E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **1.45E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **5.39E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **1.45E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **5.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **1.45E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **5.39E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **1.45E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **5.39E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-84**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.18E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.85E-02 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.40E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-02 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.17E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.91E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E+00 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.29E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.18E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.85E-02 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 9.99E-02 | 4.16E-03 | 0.00E+00 | 1.06E-01 | 0.00E+00 | 3.11E-02 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.40E-03 | 2.81E-04 | 0.00E+00 | 3.15E-02 | 0.00E+00 | 1.94E-02 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.68E-01 | 1.24E-01 | 0.00E+00 | 3.86E-01 | 0.00E+00 | 5.35E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.02E-02 | 7.47E-03 | 0.00E+00 | 6.00E-01 | 0.00E+00 | 1.15E+00 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.72E-02 | 4.43E-03 | 0.00E+00 | 3.38E-01 | 0.00E+00 | 6.86E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 9.99E-02 | 4.16E-03 | 0.00E+00 | 1.06E-01 | 0.00E+00 | 3.11E-02 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.84E-02 | 2.71E-02 | 2.30E-01 | 4.74E-01 | 0.00E+00 | 4.96E-02 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.94E-04 | 1.83E-03 | 6.84E-02 | 1.41E-01 | 0.00E+00 | 3.09E-02 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 4.93E-02 | 8.09E-01 | 8.39E-01 | 1.73E+00 | 0.00E+00 | 8.53E-01 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.71E-03 | 4.87E-02 | 1.30E+00 | 2.69E+00 | 0.00E+00 | 1.84E+00 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 4.99E-03 | 2.89E-02 | 7.35E-01 | 1.52E+00 | 0.00E+00 | 1.09E+00 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.84E-02 | 2.71E-02 | 2.30E-01 | 4.74E-01 | 0.00E+00 | 4.96E-02 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.28E-02 | 8.05E-03 | 2.97E-01 | 2.05E-01 | 0.00E+00 | 5.57E-03 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.95E-04 | 5.44E-04 | 8.85E-02 | 6.10E-02 | 0.00E+00 | 3.47E-03 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.45E-02 | 2.41E-01 | 1.09E+00 | 7.48E-01 | 0.00E+00 | 9.59E-02 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.60E-03 | 1.45E-02 | 1.69E+00 | 1.16E+00 | 0.00E+00 | 2.07E-01 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.49E-03 | 8.58E-03 | 9.51E-01 | 6.55E-01 | 0.00E+00 | 1.23E-01 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.23E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.26E-04 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.64E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.66E-04 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.29E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.33E-03 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.48E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-02 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.34E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.40E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.51E-01 | 3.71E-03 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.14E-03 | 2.31E-03 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.44E-01 | 6.38E-02 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.13E-01 | 1.38E-01 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 8.18E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.39E-03 | 0.00E+00 | 9.51E-03 | 0.00E+00 | 7.60E-02 | 1.54E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.92E-04 | 0.00E+00 | 2.83E-03 | 0.00E+00 | 2.09E-03 | 9.61E-04 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.45E-02 | 0.00E+00 | 3.47E-02 | 0.00E+00 | 2.24E-01 | 2.65E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.09E-03 | 0.00E+00 | 5.40E-02 | 0.00E+00 | 1.58E-01 | 5.71E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.47E-03 | 0.00E+00 | 3.04E-02 | 0.00E+00 | 1.87E-01 | 3.40E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.58E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.14E-02 | 1.54E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.58E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-03 | 9.61E-04 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.26E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.69E-01 | 2.65E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.20E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-01 | 5.71E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 3.40E-02 | 1.45E-03 |

**Table E3-84**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 1.47E-01 | 1.47E-01 | 4.67E-01 | 1.40E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 2.42E-02 | 2.42E-02 | 2.27E-02 | 6.80E-02 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Chromium** | 8.08E-01 | 8.11E-01 | 2.66E+00 | 2.80E+00 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 1.08E+00 | 1.09E+00 | 1.63E+00 | 3.26E+00 | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| | **Vanadium** | 6.61E-01 | 6.63E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.47E-01 | 1.47E-01 | 4.33E-02 | 1.30E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Blue Jay - mid** | **tPCB-med** | 2.41E-01 | 2.41E-01 | 4.67E-01 | 1.40E+00 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 5.65E-02 | 5.66E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 1.31E+00 | 1.32E+00 | 2.66E+00 | 2.80E+00 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | 1.78E+00 | 1.79E+00 | 1.63E+00 | 3.26E+00 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | 1.06E+00 | 1.06E+00 | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| **Blue Jay - high** | **tPCB-high** | 2.41E-01 | 2.41E-01 | 4.33E-02 | 1.30E-01 | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 7.99E-01 | 7.99E-01 | 4.67E-01 | 1.40E+00 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | 2.43E-01 | 2.44E-01 | 2.27E-02 | 6.80E-02 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Chromium** | 4.28E+00 | 4.29E+00 | 2.66E+00 | 2.80E+00 | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Lead** | 5.89E+00 | 5.91E+00 | 1.63E+00 | 3.26E+00 | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Vanadium** | 3.38E+00 | 3.39E+00 | 3.44E-01 | 7.00E-01 | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 7.99E-01 | 7.99E-01 | 4.33E-02 | 1.30E-01 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| **Shrew - 1** | **tPCB** | 5.28E-01 | 5.28E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 1.54E-01 | 1.54E-01 | 7.50E-02 | 1.50E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Chromium** | 2.20E+00 | 2.21E+00 | 2.40E+00 | 2.82E+00 | 9E-01 | 8E-01 | 9E-01 | 8E-01 |
| | **Lead** | 3.07E+00 | 3.08E+00 | 4.70E+00 | 8.90E+00 | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| | **Vanadium** | 1.74E+00 | 1.74E+00 | 4.16E+00 | 8.31E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Deer** | **tPCB** | 1.27E-02 | 1.27E-02 | 2.30E-01 | 6.80E-01 | 6E-02 | 2E-02 | 6E-02 | 2E-02 |
| | **Mercury** | 9.29E-04 | 9.58E-04 | 7.50E-02 | 1.50E-01 | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 4.03E-02 | 4.15E-02 | 2.40E+00 | 2.82E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 1.83E-02 | 2.27E-02 | 4.70E+00 | 8.90E+00 | 4E-03 | 2E-03 | 5E-03 | 3E-03 |
| | **Vanadium** | 1.27E-02 | 1.39E-02 | 4.16E+00 | 8.31E+00 | 3E-03 | 2E-03 | 3E-03 | 2E-03 |
| **Weasel** | **tPCB** | 1.54E-01 | 1.54E-01 | 2.30E-01 | 6.80E-01 | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Mercury** | 6.45E-03 | 6.50E-03 | 7.50E-02 | 1.50E-01 | 9E-02 | 4E-02 | 9E-02 | 4E-02 |
| | **Chromium** | 5.08E-01 | 5.10E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 4.50E-01 | 4.58E-01 | 4.70E+00 | 8.90E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Vanadium** | 4.53E-01 | 4.55E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 9.24E-02 | 9.24E-02 | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | 6.17E-03 | 6.21E-03 | 7.50E-02 | 1.50E-01 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Chromium** | 2.99E-01 | 3.01E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 2.70E-01 | 2.75E-01 | 4.70E+00 | 8.90E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Vanadium** | 2.53E-01 | 2.54E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 9.45E-02 | 9.45E-02 | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | 3.55E-03 | 3.59E-03 | 7.50E-02 | 1.50E-01 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 3.00E-01 | 3.01E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 2.47E-01 | 2.53E-01 | 4.70E+00 | 8.90E+00 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 2.59E-01 | 2.61E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-85**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.01E+00** | **8.26E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.12E+02** | **2.51E+02** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.99E+01** | **5.47E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.01E+01** | **3.43E+01** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.18E+01** | **7.10E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **7.31E-01** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.81E+01** | **4.31E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.01E+00** | **8.26E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.01E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.12E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.99E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.01E+01** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.18E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **7.31E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.81E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.01E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.01E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.12E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.99E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.01E+01** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.18E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **7.31E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.81E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **1.01E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.12E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.99E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.01E+01** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.18E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **7.31E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.81E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |

**Table E3-85**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-85**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-85**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-85**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 6.27E+01 | 2.49E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 6.27E+01 | 2.49E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 6.27E+01 | 2.49E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 6.27E+01 | 2.49E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 6.27E+01 | 2.49E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 6.27E+01 | 2.49E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-85**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| Carolina Wren - 2 - mid | tPCB-med | 7.56E-03 | 0.00E+00 | 0.00E+00 | 1.53E-01 | 0.00E+00 | 1.88E-02 | 0.00E+00 | 2.52E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 8.12E+00 | 0.00E+00 | 0.00E+00 | 3.34E+00 | 0.00E+00 | 4.79E-01 | 0.00E+00 | 1.55E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 3.38E-01 | 0.00E+00 | 0.00E+00 | 6.67E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 3.79E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 7.62E-01 | 0.00E+00 | 0.00E+00 | 3.17E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 2.22E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 7.90E-01 | 0.00E+00 | 0.00E+00 | 5.28E-01 | 0.00E+00 | 1.97E-02 | 0.00E+00 | 3.55E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 1.24E-03 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 1.48E-03 | 0.00E+00 | 1.32E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 3.11E-01 | 0.00E+00 | 0.00E+00 | 6.44E-01 | 0.00E+00 | 2.53E-02 | 0.00E+00 | 2.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Carolina wren - 2 - high | tPCB-high | 7.56E-03 | 0.00E+00 | 0.00E+00 | 1.53E-01 | 0.00E+00 | 1.88E-02 | 0.00E+00 | 2.52E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hawk - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.92E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hawk - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 0.00E+00 | 7.29E-03 | 0.00E+00 | 1.12E-02 | 0.00E+00 | 4.60E-04 | 1.12E-02 | 0.00E+00 | 2.96E-03 | 0.00E+00 | 0.00E+00 | 3.95E-03 | 1.16E-02 | 0.00E+00 |
| | Barium | 0.00E+00 | 1.15E+00 | 0.00E+00 | 2.45E-01 | 0.00E+00 | 1.17E-02 | 2.45E-01 | 0.00E+00 | 3.34E-02 | 0.00E+00 | 0.00E+00 | 4.97E+00 | 4.38E-02 | 0.00E+00 |
| | Chromium | 0.00E+00 | 2.11E-02 | 0.00E+00 | 4.89E-02 | 0.00E+00 | 1.98E-02 | 4.89E-02 | 0.00E+00 | 8.45E-03 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 5.64E-03 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 6.79E-03 | 0.00E+00 | 2.33E-02 | 0.00E+00 | 4.95E-02 | 2.33E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.50E-03 | 0.00E+00 |
| | Lead | 0.00E+00 | 8.08E-04 | 0.00E+00 | 3.87E-02 | 0.00E+00 | 4.82E-04 | 3.87E-02 | 0.00E+00 | 3.03E-03 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 1.07E-03 | 0.00E+00 |
| | Mercury | 0.00E+00 | 4.31E-04 | 0.00E+00 | 4.41E-03 | 0.00E+00 | 3.62E-05 | 4.41E-03 | 0.00E+00 | 8.00E-05 | 0.00E+00 | 0.00E+00 | 6.25E-04 | 2.26E-04 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 2.35E-03 | 0.00E+00 | 4.72E-02 | 0.00E+00 | 6.19E-04 | 4.72E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 2.82E-02 | 1.24E-03 | 0.00E+00 |
| Shrew - 2 | tPCB | 0.00E+00 | 1.34E-02 | 0.00E+00 | 2.19E-01 | 0.00E+00 | 3.83E-03 | 9.36E-02 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 2.11E+00 | 0.00E+00 | 4.78E+00 | 0.00E+00 | 9.77E-02 | 2.04E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 3.88E-02 | 0.00E+00 | 9.56E-01 | 0.00E+00 | 1.65E-01 | 4.08E-01 | 0.00E+00 | 3.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 1.25E-02 | 0.00E+00 | 4.55E-01 | 0.00E+00 | 4.13E-01 | 1.94E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 1.49E-03 | 0.00E+00 | 7.56E-01 | 0.00E+00 | 4.02E-03 | 3.23E-01 | 0.00E+00 | 1.36E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 7.94E-04 | 0.00E+00 | 8.61E-02 | 0.00E+00 | 3.01E-04 | 3.67E-02 | 0.00E+00 | 3.60E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 4.33E-03 | 0.00E+00 | 9.23E-01 | 0.00E+00 | 5.16E-03 | 3.94E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-85**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.44E-02 | 0.00E+00 | 4.23E-05 | 2.06E-01 | 2.59E-01 | 4.65E-01 | 4.66E-01 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | 6E-01 | 2E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.80E+00 | 0.00E+00 | 3.27E-02 | 7.62E+00 | 2.36E+01 | 3.13E+01 | 3.13E+01 | 2.08E+01 | 4.17E+01 | 4E-01 | 2E-01 | **1E+00** | 6E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.79E-01 | 0.00E+00 | 4.86E-03 | 2.16E+00 | 4.13E+00 | 6.28E+00 | 6.29E+00 | 2.66E+00 | 2.80E+00 | 8E-01 | 8E-01 | **2E+00** | **1E+00** |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.45E-01 | 0.00E+00 | 3.29E-03 | 2.69E+00 | 2.99E+00 | 5.67E+00 | 5.67E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 3E-01 | 4E-01 | 4E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.44E-01 | 0.00E+00 | 1.82E-02 | 1.29E+00 | 4.34E+00 | 5.63E+00 | 5.65E+00 | 1.63E+00 | 3.26E+00 | 8E-01 | 4E-01 | **3E+00** | **1E+00** |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.49E-02 | 0.00E+00 | 1.16E-04 | 8.65E-02 | 1.34E-01 | 2.20E-01 | 2.20E-01 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.59E-01 | 0.00E+00 | 4.62E-03 | 1.63E+00 | 2.35E+00 | 3.98E+00 | 3.99E+00 | 3.44E-01 | 7.00E-01 | **5E+00** | **2E+00** | **7E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.44E-02 | 0.00E+00 | 4.23E-05 | 2.06E-01 | 2.59E-01 | 4.65E-01 | 4.66E-01 | 4.33E-02 | 1.30E-01 | **5E+00** | **2E+00** | **6E+00** | **2E+00** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 5.40E-01 | 0.00E+00 | 4.61E-03 | 3.77E-03 | 8.93E-06 | 1.50E-01 | 5.44E-01 | 6.93E-01 | 6.93E-01 | 4.67E-01 | 1.40E+00 | 3E-01 | 1E-01 | **1E+00** | 4E-01 |
| | **Barium** | 0.00E+00 | 6.94E-01 | 0.00E+00 | 5.09E-01 | 1.15E+00 | 6.90E-03 | 2.15E+00 | 1.84E+00 | 3.99E+00 | 4.00E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 5E-02 | 9E-02 | 4E-02 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 9.09E-02 | 2.50E-01 | 1.03E-03 | 5.06E-01 | 3.44E-01 | 8.49E-01 | 8.50E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 4.62E-02 | 1.57E-01 | 6.95E-04 | 1.14E+00 | 3.92E-01 | 1.53E+00 | 1.53E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 5E-02 | 5E-02 |
| | **Lead** | 0.00E+00 | 6.59E-02 | 0.00E+00 | 9.97E-02 | 3.24E-01 | 3.84E-03 | 2.48E-01 | 3.90E-01 | 6.38E-01 | 6.42E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 8E-02 | 2E-01 | 1E-01 |
| | **Mercury** | 0.00E+00 | 1.12E-02 | 0.00E+00 | 3.34E-03 | 3.72E-03 | 2.45E-05 | 7.26E-03 | 1.49E-02 | 2.22E-02 | 2.22E-02 | 2.27E-02 | 6.80E-02 | 3E-01 | 1E-01 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.28E-01 | 1.97E-01 | 9.75E-04 | 5.64E-01 | 2.91E-01 | 8.55E-01 | 8.56E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 8E-01 | 4E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 5.40E-01 | 0.00E+00 | 4.61E-03 | 3.77E-03 | 8.93E-06 | 1.50E-01 | 5.44E-01 | 6.93E-01 | 6.93E-01 | 4.33E-02 | 1.30E-01 | **3E+00** | **1E+00** | **1E+01** | **4E+00** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 2.78E-02 | 1.66E-03 | 2.54E-03 | 0.00E+00 | 1.30E-05 | 3.57E-02 | 4.50E-02 | 8.07E-02 | 8.07E-02 | 2.30E-01 | 6.80E-01 | 2E-01 | 5E-02 | 2E-01 | 7E-02 |
| | **Barium** | 0.00E+00 | 3.58E-02 | 2.37E-01 | 2.81E-01 | 0.00E+00 | 1.00E-02 | 1.96E+00 | 5.29E+00 | 7.25E+00 | 7.26E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 4.87E-02 | 5.02E-02 | 0.00E+00 | 1.49E-03 | 1.97E-01 | 7.37E-02 | 2.71E-01 | 2.73E-01 | 2.40E+00 | 2.82E+00 | 8E-02 | 7E-02 | 3E-02 | 3E-02 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 1.08E-02 | 2.55E-02 | 0.00E+00 | 1.01E-03 | 1.51E-01 | 9.41E-02 | 2.45E-01 | 2.46E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 2E-02 | 1E-02 | 9E-03 |
| | **Lead** | 0.00E+00 | 3.39E-03 | 2.25E-02 | 5.50E-02 | 0.00E+00 | 5.59E-03 | 1.37E-01 | 5.90E-02 | 1.96E-01 | 2.01E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 2E-02 | 1E-02 | 7E-03 |
| | **Mercury** | 0.00E+00 | 5.76E-04 | 4.20E-04 | 1.84E-03 | 0.00E+00 | 3.57E-05 | 1.12E-02 | 1.85E-03 | 1.31E-02 | 1.31E-02 | 7.50E-02 | 1.50E-01 | 1E-01 | 7E-02 | 2E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 6.26E-03 | 7.08E-02 | 0.00E+00 | 1.42E-03 | 1.77E-01 | 4.05E-02 | 2.18E-01 | 2.19E-01 | 4.16E+00 | 8.31E+00 | 4E-02 | 2E-02 | 1E-02 | 5E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 6.62E-02 | 2.63E-03 | 3.87E-03 | 3.17E-03 | 2.35E-05 | 3.47E-01 | 7.20E-02 | 4.19E-01 | 4.19E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 5E-01 | 3E-01 | 1E-01 |
| | **Barium** | 0.00E+00 | 8.52E-02 | 3.77E-01 | 4.28E-01 | 9.62E-01 | 1.82E-02 | 9.61E+00 | 1.42E+00 | 1.10E+01 | 1.10E+01 | 5.18E+01 | 1.21E+02 | 2E-01 | 8E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 7.73E-02 | 7.63E-02 | 2.10E-01 | 2.70E-03 | 1.68E+00 | 2.99E-01 | 1.98E+00 | 1.98E+00 | 2.40E+00 | 2.82E+00 | 7E-01 | 6E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 1.71E-02 | 3.88E-02 | 1.32E-01 | 1.83E-03 | 1.21E+00 | 1.77E-01 | 1.39E+00 | 1.39E+00 | 7.33E+00 | 1.00E+01 | 2E-01 | 1E-01 | 2E-02 | 2E-02 |
| | **Lead** | 0.00E+00 | 8.08E-03 | 3.57E-02 | 8.36E-02 | 2.72E-01 | 1.01E-02 | 1.18E+00 | 3.16E-01 | 1.50E+00 | 1.51E+00 | 4.70E+00 | 8.90E+00 | 3E-01 | 1E-01 | 7E-02 | 4E-02 |
| | **Mercury** | 0.00E+00 | 1.37E-03 | 6.67E-04 | 2.80E-03 | 3.13E-03 | 6.45E-05 | 1.27E-01 | 5.17E-03 | 1.32E-01 | 1.32E-01 | 7.50E-02 | 1.50E-01 | **2E+00** | 8E-01 | 7E-02 | 3E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 9.94E-03 | 1.08E-01 | 1.65E-01 | 2.57E-03 | 1.47E+00 | 1.87E-01 | 1.66E+00 | 1.66E+00 | 4.16E+00 | 8.31E+00 | 4E-01 | 2E-01 | 4E-02 | 2E-02 |

**Table E3-85**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Barium** | **2E+00** | 7E-01 | **2E+00** | 8E-01 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Lead** | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Mercury** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Vanadium** | **1E+01** | **6E+00** | **1E+01** | **6E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Hawk - mid** | **tPCB-med** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Barium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Hawk - high** | **tPCB-high** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| **Raccoon - 1** | **tPCB** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Barium** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Vanadium** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Shrew - 2** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Barium** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-86**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.45E+00** | **8.26E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **9.27E+01** | **2.51E+02** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.50E+01** | **5.47E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.64E+00** | **3.43E+01** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.39E+01** | **7.10E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.06E-01** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **3.21E+01** | **4.31E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.45E+00** | **8.26E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.45E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **9.27E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **2.50E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **7.64E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **5.39E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **9.06E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **3.21E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.45E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.45E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **9.27E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **2.50E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **7.64E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **5.39E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **9.06E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **3.21E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **1.45E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **9.27E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **2.50E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **7.64E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **5.39E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **9.06E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **3.21E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-86**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-86**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-86**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-86**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 6.27E+01 | 2.49E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 6.27E+01 | 2.49E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 6.27E+01 | 2.49E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 6.27E+01 | 2.49E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 6.27E+01 | 2.49E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 6.27E+01 | 2.49E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-86**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 7.56E-03 | 0.00E+00 | 0.00E+00 | 2.30E-01 | 0.00E+00 | 2.71E-02 | 0.00E+00 | 2.52E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 8.12E+00 | 0.00E+00 | 0.00E+00 | 2.77E+00 | 0.00E+00 | 3.98E-01 | 0.00E+00 | 1.55E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 3.38E-01 | 0.00E+00 | 0.00E+00 | 8.39E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 3.79E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.40E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 2.22E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 7.90E-01 | 0.00E+00 | 0.00E+00 | 1.30E+00 | 0.00E+00 | 4.87E-02 | 0.00E+00 | 3.55E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.24E-03 | 0.00E+00 | 0.00E+00 | 6.84E-02 | 0.00E+00 | 1.83E-03 | 0.00E+00 | 1.32E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 3.11E-01 | 0.00E+00 | 0.00E+00 | 7.35E-01 | 0.00E+00 | 2.89E-02 | 0.00E+00 | 2.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 7.56E-03 | 0.00E+00 | 0.00E+00 | 2.30E-01 | 0.00E+00 | 2.71E-02 | 0.00E+00 | 2.52E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.67E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.86E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 9.88E-03 | 0.00E+00 | 1.68E-02 | 0.00E+00 | 6.63E-04 | 1.68E-02 | 0.00E+00 | 3.61E-03 | 0.00E+00 | 0.00E+00 | 3.95E-03 | 1.16E-02 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 9.52E-01 | 0.00E+00 | 2.03E-01 | 0.00E+00 | 9.74E-03 | 2.03E-01 | 0.00E+00 | 2.77E-02 | 0.00E+00 | 0.00E+00 | 4.97E+00 | 4.38E-02 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.65E-02 | 0.00E+00 | 6.15E-02 | 0.00E+00 | 1.98E-02 | 6.15E-02 | 0.00E+00 | 1.06E-02 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 5.64E-03 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 5.13E-03 | 0.00E+00 | 1.76E-02 | 0.00E+00 | 4.95E-02 | 1.76E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.50E-03 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.00E-03 | 0.00E+00 | 9.57E-02 | 0.00E+00 | 1.19E-03 | 9.57E-02 | 0.00E+00 | 7.49E-03 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 1.07E-03 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 5.35E-04 | 0.00E+00 | 5.02E-03 | 0.00E+00 | 4.48E-05 | 5.02E-03 | 0.00E+00 | 9.92E-05 | 0.00E+00 | 0.00E+00 | 6.25E-04 | 2.26E-04 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.69E-03 | 0.00E+00 | 5.39E-02 | 0.00E+00 | 7.06E-04 | 5.39E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 2.82E-02 | 1.24E-03 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 1.82E-02 | 0.00E+00 | 3.29E-01 | 0.00E+00 | 5.53E-03 | 1.40E-01 | 0.00E+00 | 1.62E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 1.75E+00 | 0.00E+00 | 3.97E+00 | 0.00E+00 | 8.12E-02 | 1.70E+00 | 0.00E+00 | 1.25E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 4.88E-02 | 0.00E+00 | 1.20E+00 | 0.00E+00 | 1.65E-01 | 5.13E-01 | 0.00E+00 | 4.78E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 9.44E-03 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 4.13E-01 | 1.47E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 3.68E-03 | 0.00E+00 | 1.87E+00 | 0.00E+00 | 9.94E-03 | 7.98E-01 | 0.00E+00 | 3.37E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 9.84E-04 | 0.00E+00 | 9.80E-02 | 0.00E+00 | 3.74E-04 | 4.18E-02 | 0.00E+00 | 4.46E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 4.95E-03 | 0.00E+00 | 1.05E+00 | 0.00E+00 | 5.89E-03 | 4.50E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-86**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.96E-02 | 0.00E+00 | 4.23E-05 | 3.06E-01 | 2.59E-01 | 5.65E-01 | 5.65E-01 | 4.67E-01 | 1.40E+00 | 7E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.16E+00 | 0.00E+00 | 3.27E-02 | 6.33E+00 | 2.36E+01 | 3.00E+01 | 3.00E+01 | 2.08E+01 | 4.17E+01 | 3E-01 | 2E-01 | **1E+00** | 6E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.53E-01 | 0.00E+00 | 4.86E-03 | 2.50E+00 | 4.13E+00 | 6.63E+00 | 6.64E+00 | 2.66E+00 | 2.80E+00 | 9E-01 | 9E-01 | **2E+00** | **1E+00** |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E-01 | 0.00E+00 | 3.29E-03 | 2.52E+00 | 2.99E+00 | 5.51E+00 | 5.51E+00 | 7.61E+00 | 7.80E+00 | 3E-01 | 3E-01 | 4E-01 | 4E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E+00 | 0.00E+00 | 1.82E-02 | 3.19E+00 | 4.34E+00 | 7.53E+00 | 7.55E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 1E+00 | **3E+00** | **1E+00** |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.09E-02 | 0.00E+00 | 1.16E-04 | 1.01E-01 | 1.34E-01 | 2.35E-01 | 2.35E-01 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 4.62E-03 | 1.86E+00 | 2.35E+00 | 4.21E+00 | 4.22E+00 | 3.44E-01 | 7.00E-01 | **5E+00** | **3E+00** | **7E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.96E-02 | 0.00E+00 | 4.23E-05 | 3.06E-01 | 2.59E-01 | 5.65E-01 | 5.65E-01 | 4.33E-02 | 1.30E-01 | **7E+00** | **2E+00** | **6E+00** | **2E+00** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 5.40E-01 | 0.00E+00 | 6.64E-03 | 3.77E-03 | 8.93E-06 | 1.84E-01 | 5.44E-01 | 7.27E-01 | 7.27E-01 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | **1E+00** | 4E-01 |
| | **Barium** | 0.00E+00 | 6.94E-01 | 0.00E+00 | 4.23E-01 | 1.15E+00 | 6.90E-03 | 1.78E+00 | 1.84E+00 | 3.63E+00 | 3.63E+00 | 2.08E+01 | 4.17E+01 | 9E-02 | 4E-02 | 9E-02 | 4E-02 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.14E-01 | 2.50E-01 | 1.03E-03 | 6.36E-01 | 3.44E-01 | 9.80E-01 | 9.81E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 3.49E-02 | 1.57E-01 | 6.95E-04 | 1.12E+00 | 3.92E-01 | 1.52E+00 | 1.52E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 5E-02 | 5E-02 |
| | **Lead** | 0.00E+00 | 6.59E-02 | 0.00E+00 | 2.46E-01 | 3.24E-01 | 3.84E-03 | 6.13E-01 | 3.90E-01 | 1.00E+00 | 1.01E+00 | 1.63E+00 | 3.26E+00 | 4E-01 | 2E-01 | 2E-01 | 1E-01 |
| | **Mercury** | 0.00E+00 | 1.12E-02 | 0.00E+00 | 4.14E-03 | 3.72E-03 | 2.45E-05 | 9.00E-03 | 1.49E-02 | 2.39E-02 | 2.39E-02 | 2.27E-02 | 6.80E-02 | 4E-01 | 1E-01 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.46E-01 | 1.97E-01 | 9.75E-04 | 5.82E-01 | 2.91E-01 | 8.73E-01 | 8.74E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 8E-01 | 4E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 5.40E-01 | 0.00E+00 | 6.64E-03 | 3.77E-03 | 8.93E-06 | 1.84E-01 | 5.44E-01 | 7.27E-01 | 7.27E-01 | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **1E+01** | **4E+00** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 2.78E-02 | 1.66E-03 | 3.66E-03 | 0.00E+00 | 1.30E-05 | 5.15E-02 | 4.50E-02 | 9.65E-02 | 9.65E-02 | 2.30E-01 | 6.80E-01 | 2E-01 | 8E-02 | 2E-01 | 7E-02 |
| | **Barium** | 0.00E+00 | 3.58E-02 | 2.37E-01 | 2.34E-01 | 0.00E+00 | 1.00E-02 | 1.63E+00 | 5.29E+00 | 6.92E+00 | 6.93E+00 | 5.18E+01 | 1.21E+02 | 3E-02 | 1E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 4.87E-02 | 6.31E-02 | 0.00E+00 | 1.49E-03 | 2.43E-01 | 7.37E-02 | 3.17E-01 | 3.18E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 9E-02 | 3E-02 | 3E-02 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 1.08E-02 | 1.93E-02 | 0.00E+00 | 1.01E-03 | 1.31E-01 | 9.41E-02 | 2.25E-01 | 2.26E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 9E-03 |
| | **Lead** | 0.00E+00 | 3.39E-03 | 2.25E-02 | 1.36E-01 | 0.00E+00 | 5.59E-03 | 3.38E-01 | 5.90E-02 | 3.97E-01 | 4.03E-01 | 4.70E+00 | 8.90E+00 | 7E-02 | 4E-02 | 1E-02 | 7E-03 |
| | **Mercury** | 0.00E+00 | 5.76E-04 | 4.20E-04 | 2.28E-03 | 0.00E+00 | 3.57E-05 | 1.30E-02 | 1.85E-03 | 1.48E-02 | 1.49E-02 | 7.50E-02 | 1.50E-01 | 2E-01 | 9E-02 | 2E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 6.26E-03 | 8.08E-02 | 0.00E+00 | 1.42E-03 | 2.01E-01 | 4.05E-02 | 2.41E-01 | 2.43E-01 | 4.16E+00 | 8.31E+00 | 5E-02 | 2E-02 | 1E-02 | 5E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 6.62E-02 | 2.63E-03 | 5.57E-03 | 3.17E-03 | 2.35E-05 | 5.15E-01 | 7.20E-02 | 5.87E-01 | 5.87E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 8E-01 | 3E-01 | 1E-01 |
| | **Barium** | 0.00E+00 | 8.52E-02 | 3.77E-01 | 3.55E-01 | 9.62E-01 | 1.82E-02 | 7.98E+00 | 1.42E+00 | 9.41E+00 | 9.43E+00 | 5.18E+01 | 1.21E+02 | 2E-01 | 7E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 7.73E-02 | 9.59E-02 | 2.10E-01 | 2.70E-03 | 2.07E+00 | 2.99E-01 | 2.37E+00 | 2.37E+00 | 2.40E+00 | 2.82E+00 | 9E-01 | 7E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 1.71E-02 | 2.93E-02 | 1.32E-01 | 1.83E-03 | 1.04E+00 | 1.77E-01 | 1.22E+00 | 1.22E+00 | 7.33E+00 | 1.00E+01 | 1E-01 | 1E-01 | 2E-02 | 2E-02 |
| | **Lead** | 0.00E+00 | 8.08E-03 | 3.57E-02 | 2.07E-01 | 2.72E-01 | 1.01E-02 | 2.92E+00 | 3.16E-01 | 3.24E+00 | 3.25E+00 | 4.70E+00 | 8.90E+00 | 6E-01 | 3E-01 | 7E-02 | 4E-02 |
| | **Mercury** | 0.00E+00 | 1.37E-03 | 6.67E-04 | 3.47E-03 | 3.13E-03 | 6.45E-05 | 1.45E-01 | 5.17E-03 | 1.50E-01 | 1.50E-01 | 7.50E-02 | 1.50E-01 | **2E+00** | 1E+00 | 7E-02 | 3E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 9.94E-03 | 1.23E-01 | 1.65E-01 | 2.57E-03 | 1.68E+00 | 1.87E-01 | 1.86E+00 | 1.87E+00 | 4.16E+00 | 8.31E+00 | 4E-01 | 2E-01 | 4E-02 | 2E-02 |

**Table E3-86**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Lead** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Mercury** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Vanadium** | **1E+01** | **6E+00** | **1E+01** | **6E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Hawk - mid** | **tPCB-med** | **2E+00** | 5E-01 | **2E+00** | 5E-01 |
| | **Barium** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 4E-01 | 3E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Hawk - high** | **tPCB-high** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| **Raccoon - 1** | **tPCB** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Barium** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 8E-02 | 4E-02 | 9E-02 | 5E-02 |
| | **Mercury** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Shrew - 2** | **tPCB** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 1E+00 | 8E-01 | 1E+00 | 8E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| | **Mercury** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-87**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C5, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 2** | **tPCB-mink** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Raccoon - 1** | **tPCB** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| **Raccoon - 2** | **tPCB** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |

**Table E3-87**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C5, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| Spotted Sandpiper - 1 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| Spotted Sandpiper - 1 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| GBH - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| GBH - high | tPCB-high | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| Mink - 1 | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 2 | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| Raccoon - 2 | tPCB | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Barium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Chromium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Cobalt | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Lead | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Mercury | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Vanadium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table E3-87**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C5, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| **GBH - mid** | **tPCB-med** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **GBH - high** | **tPCB-high** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| **Mink - 1** | **tPCB-mink** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Mink - 2** | **tPCB-mink** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 1** | **tPCB** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 2** | **tPCB** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |

**Table E3-87**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C5, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | |
|---|---|---|---|---|---|
| | | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| **GBH - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **GBH - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| **Mink - 1** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Mink - 2** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 1** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 2** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |

**Table E3-87**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C5, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| **GBH - mid** | **tPCB-med** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **GBH - high** | **tPCB-high** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| **Mink - 1** | **tPCB-mink** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Mink - 2** | **tPCB-mink** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Raccoon - 1** | **tPCB** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Raccoon - 2** | **tPCB** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |

**Table E3-87**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C5, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 2.49E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 8.41E-02 | 1.16E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.04E+01 | 9.98E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.72E+00 | 3.42E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.80E+00 | 6.57E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.04E+00 | 3.10E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.64E-02 | 2.22E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.68E+00 | 8.76E-01 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 2.49E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 8.41E-02 | 1.16E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 2.49E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 2.49E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 2.49E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 2.49E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 2.49E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.70E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 2.49E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.70E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.83E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 7.62E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.78E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.79E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 7.02E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 2.49E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.93E-02 | 0.00E+00 | 3.49E-02 | 0.00E+00 | 1.31E-03 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.41E+00 | 0.00E+00 | 3.01E-01 | 0.00E+00 | 1.44E-02 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.45E-02 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 1.98E-02 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.77E-03 | 0.00E+00 | 1.98E-02 | 0.00E+00 | 4.95E-02 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.95E-03 | 0.00E+00 | 9.35E-02 | 0.00E+00 | 1.17E-03 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 8.15E-04 | 0.00E+00 | 6.68E-03 | 0.00E+00 | 6.83E-05 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.32E-03 | 0.00E+00 | 2.64E-02 | 0.00E+00 | 3.46E-04 |
| **Raccoon - 2** | **tPCB** | 2.49E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.57E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.69E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 7.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.64E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 6.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-87**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C5, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water |
| Spotted Sandpiper - 1 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.62E-02 | 1.32E-02 | 2.66E-05 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.20E+00 | 4.02E+00 | 2.06E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.71E-01 | 8.76E-01 | 3.06E-03 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 5.50E-01 | 2.07E-03 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.44E-01 | 1.14E+00 | 1.14E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-02 | 1.31E-02 | 7.31E-05 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.52E-01 | 6.91E-01 | 2.91E-03 |
| Spotted Sandpiper - 1 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.62E-02 | 1.32E-02 | 2.66E-05 |
| GBH - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 6.49E-03 | 0.00E+00 | 0.00E+00 | 2.00E-03 | 3.24E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-02 | 0.00E+00 | 2.91E-03 | 7.05E-06 |
| | Barium | 0.00E+00 | 0.00E+00 | 5.08E-02 | 0.00E+00 | 0.00E+00 | 2.51E+00 | 1.23E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.08E+00 | 0.00E+00 | 8.84E-01 | 5.45E-03 |
| | Chromium | 0.00E+00 | 0.00E+00 | 2.21E-02 | 0.00E+00 | 0.00E+00 | 7.38E-03 | 1.58E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.26E-01 | 0.00E+00 | 1.93E-01 | 8.10E-04 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 4.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.42E-02 | 0.00E+00 | 1.21E-01 | 5.49E-04 |
| | Lead | 0.00E+00 | 0.00E+00 | 9.06E-03 | 0.00E+00 | 0.00E+00 | 1.62E-02 | 3.01E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E-01 | 0.00E+00 | 2.50E-01 | 3.03E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.87E-04 | 0.00E+00 | 0.00E+00 | 3.16E-04 | 6.33E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.67E-03 | 0.00E+00 | 2.87E-03 | 1.94E-05 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 1.42E-02 | 3.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.48E-02 | 0.00E+00 | 1.52E-01 | 7.70E-04 |
| GBH - high | tPCB-high | 0.00E+00 | 0.00E+00 | 6.49E-03 | 0.00E+00 | 0.00E+00 | 2.00E-03 | 3.24E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-02 | 0.00E+00 | 2.91E-03 | 7.05E-06 |
| Mink - 1 | tPCB-mink | 0.00E+00 | 0.00E+00 | 8.02E-02 | 0.00E+00 | 0.00E+00 | 5.05E-03 | 0.00E+00 | 0.00E+00 | 1.89E-01 | 0.00E+00 | 2.65E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 8.02E-02 | 0.00E+00 | 0.00E+00 | 5.05E-03 | 0.00E+00 | 0.00E+00 | 1.89E-01 | 0.00E+00 | 2.65E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | Barium | 0.00E+00 | 0.00E+00 | 6.28E-01 | 0.00E+00 | 0.00E+00 | 6.34E+00 | 0.00E+00 | 0.00E+00 | 2.45E+00 | 0.00E+00 | 3.79E+00 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 2.73E-01 | 0.00E+00 | 0.00E+00 | 1.87E-02 | 0.00E+00 | 0.00E+00 | 3.36E-01 | 0.00E+00 | 7.77E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 1.72E-01 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.12E-01 | 0.00E+00 | 0.00E+00 | 4.09E-02 | 0.00E+00 | 0.00E+00 | 1.61E-02 | 0.00E+00 | 3.59E-01 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 7.98E-04 | 0.00E+00 | 0.00E+00 | 3.79E-03 | 0.00E+00 | 6.71E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 3.60E-02 | 0.00E+00 | 0.00E+00 | 7.19E-02 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| Mink - 2 | tPCB-mink | 0.00E+00 | 0.00E+00 | 1.09E-02 | 0.00E+00 | 0.00E+00 | 2.24E-03 | 0.00E+00 | 0.00E+00 | 7.73E-01 | 0.00E+00 | 3.06E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 1.09E-02 | 0.00E+00 | 0.00E+00 | 2.24E-03 | 0.00E+00 | 0.00E+00 | 7.73E-01 | 0.00E+00 | 3.06E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | Barium | 0.00E+00 | 0.00E+00 | 8.56E-02 | 0.00E+00 | 0.00E+00 | 2.82E+00 | 0.00E+00 | 0.00E+00 | 1.00E+01 | 0.00E+00 | 4.37E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 3.72E-02 | 0.00E+00 | 0.00E+00 | 8.29E-03 | 0.00E+00 | 0.00E+00 | 1.38E+00 | 0.00E+00 | 8.97E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 1.98E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.53E-02 | 0.00E+00 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 0.00E+00 | 6.58E-02 | 0.00E+00 | 4.14E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 3.15E-04 | 0.00E+00 | 0.00E+00 | 3.55E-04 | 0.00E+00 | 0.00E+00 | 1.55E-02 | 0.00E+00 | 7.74E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 1.60E-02 | 0.00E+00 | 0.00E+00 | 2.94E-01 | 0.00E+00 | 1.15E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| Raccoon - 1 | tPCB | 3.49E-02 | 0.00E+00 | 5.24E-03 | 0.00E+00 | 0.00E+00 | 3.95E-03 | 1.16E-02 | 0.00E+00 | 0.00E+00 | 2.78E-02 | 1.66E-03 | 7.27E-03 | 0.00E+00 | 1.30E-05 |
| | Barium | 3.01E-01 | 0.00E+00 | 4.10E-02 | 0.00E+00 | 0.00E+00 | 4.97E+00 | 4.38E-02 | 0.00E+00 | 0.00E+00 | 3.58E-02 | 2.37E-01 | 3.45E-01 | 0.00E+00 | 1.00E-02 |
| | Chromium | 1.03E-01 | 0.00E+00 | 1.78E-02 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 5.64E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 4.87E-02 | 1.06E-01 | 0.00E+00 | 1.49E-03 |
| | Cobalt | 1.98E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.50E-03 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.08E-02 | 2.17E-02 | 0.00E+00 | 1.01E-03 |
| | Lead | 9.35E-02 | 0.00E+00 | 7.32E-03 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 1.07E-03 | 0.00E+00 | 0.00E+00 | 3.39E-03 | 2.25E-02 | 1.33E-01 | 0.00E+00 | 5.59E-03 |
| | Mercury | 6.68E-03 | 0.00E+00 | 1.51E-04 | 0.00E+00 | 0.00E+00 | 6.25E-04 | 2.26E-04 | 0.00E+00 | 0.00E+00 | 5.76E-04 | 4.20E-04 | 3.48E-03 | 0.00E+00 | 3.57E-05 |
| | Vanadium | 2.64E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 2.82E-02 | 1.24E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 6.26E-03 | 3.96E-02 | 0.00E+00 | 1.42E-03 |
| Raccoon - 2 | tPCB | 0.00E+00 | 0.00E+00 | 1.88E-02 | 3.96E-02 | 1.36E-02 | 3.95E-03 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.63E-03 | 0.00E+00 | 2.08E-03 | 1.30E-05 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.47E-01 | 1.84E-01 | 6.99E-01 | 4.97E+00 | 4.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.49E-01 | 0.00E+00 | 6.33E-01 | 1.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 6.39E-02 | 1.55E-02 | 2.42E-01 | 1.46E-02 | 5.90E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-01 | 0.00E+00 | 1.38E-01 | 1.49E-03 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 7.96E-02 | 3.44E-02 | 2.02E-01 | 6.97E-02 | 1.57E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.31E-02 | 0.00E+00 | 8.65E-02 | 1.01E-03 |
| | Lead | 0.00E+00 | 0.00E+00 | 2.62E-02 | 4.56E-02 | 2.57E-01 | 3.21E-02 | 1.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.99E-02 | 0.00E+00 | 1.79E-01 | 5.59E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 5.42E-04 | 6.56E-04 | 7.33E-04 | 6.25E-04 | 2.36E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-03 | 0.00E+00 | 2.06E-03 | 3.57E-05 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 3.19E-02 | 1.52E-02 | 8.32E-02 | 2.82E-02 | 1.30E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E-02 | 0.00E+00 | 1.09E-01 | 1.42E-03 |

**Table E3-87**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C5, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.20E+00 | 9.73E-02 | 1.30E+00 | 1.30E+00 | 4.67E-01 | 1.40E+00 | **3E+00** | 9E-01 | 2E-01 | 7E-02 | **3E+00** | 9E-01 | **3E+00** |
| | **Barium** | 1.22E+01 | 2.44E+01 | 3.66E+01 | 3.66E+01 | 2.08E+01 | 4.17E+01 | 6E-01 | 3E-01 | **1E+00** | 6E-01 | **2E+00** | 9E-01 | **2E+00** |
| | **Chromium** | 4.09E+00 | 2.60E+00 | 6.69E+00 | 6.69E+00 | 2.66E+00 | 2.80E+00 | **2E+00** | **1E+00** | 1E+00 | 9E-01 | **3E+00** | **2E+00** | **3E+00** |
| | **Cobalt** | 7.95E-01 | 4.35E+00 | 5.15E+00 | 5.15E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 6E-01 | 6E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Lead** | 3.95E+00 | 6.18E+00 | 1.01E+01 | 1.01E+01 | 1.63E+00 | 3.26E+00 | **2E+00** | **1E+00** | **4E+00** | **2E+00** | **6E+00** | **3E+00** | **6E+00** |
| | **Mercury** | 2.44E-01 | 3.95E-02 | 2.83E-01 | 2.83E-01 | 2.27E-02 | 6.80E-02 | **1E+01** | **4E+00** | **2E+00** | 6E-01 | **1E+01** | **4E+00** | **1E+01** |
| | **Vanadium** | 1.13E+00 | 2.37E+00 | 3.50E+00 | 3.50E+00 | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **7E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.20E+00 | 9.73E-02 | 1.30E+00 | 1.30E+00 | 4.33E-02 | 1.30E-01 | **3E+01** | **9E+00** | **2E+00** | 7E-01 | **3E+01** | **1E+01** | **3E+01** |
| **GBH - mid** | **tPCB-med** | 6.49E-03 | 3.26E+00 | 3.27E+00 | 3.27E+00 | 4.67E-01 | 1.40E+00 | 1E-02 | 5E-03 | **7E+00** | **2E+00** | **7E+00** | **2E+00** | **7E+00** |
| | **Barium** | 5.08E-02 | 1.77E+01 | 1.78E+01 | 1.78E+01 | 2.08E+01 | 4.17E+01 | 2E-03 | 1E-03 | 9E-01 | 4E-01 | 9E-01 | 4E-01 | 9E-01 |
| | **Chromium** | 2.21E-02 | 2.21E+00 | 2.23E+00 | 2.23E+00 | 2.66E+00 | 2.80E+00 | 8E-03 | 8E-03 | 8E-01 | 8E-01 | 8E-01 | 8E-01 | 8E-01 |
| | **Cobalt** | 2.75E-02 | 6.72E-01 | 6.99E-01 | 7.00E-01 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 9E-02 | 9E-02 | 9E-02 | 9E-02 | 9E-02 |
| | **Lead** | 9.06E-03 | 7.64E-01 | 7.73E-01 | 7.76E-01 | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 | 5E-01 |
| | **Mercury** | 1.87E-04 | 7.02E-02 | 7.04E-02 | 7.04E-02 | 2.27E-02 | 6.80E-02 | 8E-03 | 3E-03 | **3E+00** | 1E+00 | **3E+00** | 1E+00 | **3E+00** |
| | **Vanadium** | 1.10E-02 | 5.68E-01 | 5.79E-01 | 5.80E-01 | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | **2E+00** | 8E-01 | **2E+00** | 8E-01 | **2E+00** |
| **GBH - high** | **tPCB-high** | 6.49E-03 | 3.26E+00 | 3.27E+00 | 3.27E+00 | 4.33E-02 | 1.30E-01 | 1E-01 | 5E-02 | **8E+01** | **3E+01** | **8E+01** | **3E+01** | **8E+01** |
| **Mink - 1** | **tPCB-mink** | 8.02E-02 | 2.20E-01 | 3.01E-01 | 3.01E-01 | 5.00E-02 | 1.00E-01 | **2E+00** | 8E-01 | **4E+00** | **2E+00** | **6E+00** | **3E+00** | **6E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 8.02E-02 | 2.20E-01 | 3.01E-01 | 3.01E-01 | na | 5.00E-02 | **--** | **2E+00** | **--** | **4E+00** | **--** | **6E+00** | **--** |
| | **Barium** | 6.28E-01 | 1.26E+01 | 1.32E+01 | 1.32E+01 | 5.18E+01 | 1.21E+02 | 1E-02 | 5E-03 | 2E-01 | 1E-01 | 3E-01 | 1E-01 | 3E-01 |
| | **Chromium** | 2.73E-01 | 1.13E+00 | 1.41E+00 | 1.41E+00 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 5E-01 | 4E-01 | 6E-01 | 5E-01 | 6E-01 |
| | **Cobalt** | 3.40E-01 | 4.62E-01 | 8.02E-01 | 8.03E-01 | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 6E-02 | 5E-02 | 1E-01 | 8E-02 | 1E-01 |
| | **Lead** | 1.12E-01 | 4.16E-01 | 5.28E-01 | 5.35E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 9E-02 | 5E-02 | 1E-01 | 6E-02 | 1E-01 |
| | **Mercury** | 2.31E-03 | 1.13E-02 | 1.36E-02 | 1.37E-02 | 7.50E-02 | 1.50E-01 | 3E-02 | 2E-02 | 2E-01 | 8E-02 | 2E-01 | 9E-02 | 2E-01 |
| | **Vanadium** | 1.36E-01 | 2.08E-01 | 3.44E-01 | 3.46E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 5E-02 | 3E-02 | 8E-02 | 4E-02 | 8E-02 |
| **Mink - 2** | **tPCB-mink** | 1.09E-02 | 7.79E-01 | 7.90E-01 | 7.90E-01 | 5.00E-02 | 1.00E-01 | 2E-01 | 1E-01 | **2E+01** | **8E+00** | **2E+01** | **8E+00** | **2E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.09E-02 | 7.79E-01 | 7.90E-01 | 7.90E-01 | na | 5.00E-02 | **--** | 2E-01 | **--** | **2E+01** | **--** | **2E+01** | **--** |
| | **Barium** | 8.56E-02 | 1.35E+01 | 1.35E+01 | 1.36E+01 | 5.18E+01 | 1.21E+02 | 2E-03 | 7E-04 | 3E-01 | 1E-01 | 3E-01 | 1E-01 | 3E-01 |
| | **Chromium** | 3.72E-02 | 1.48E+00 | 1.52E+00 | 1.52E+00 | 2.40E+00 | 2.82E+00 | 2E-02 | 1E-02 | 6E-01 | 5E-01 | 6E-01 | 5E-01 | 6E-01 |
| | **Cobalt** | 4.64E-02 | 8.98E-01 | 9.44E-01 | 9.46E-01 | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 |
| | **Lead** | 1.53E-02 | 1.43E-01 | 1.58E-01 | 1.65E-01 | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 | 4E-02 |
| | **Mercury** | 3.15E-04 | 1.67E-02 | 1.70E-02 | 1.70E-02 | 7.50E-02 | 1.50E-01 | 4E-03 | 2E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 |
| | **Vanadium** | 1.85E-02 | 3.29E-01 | 3.47E-01 | 3.49E-01 | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 8E-02 | 4E-02 | 8E-02 | 4E-02 | 8E-02 |
| **Raccoon - 1** | **tPCB** | 1.13E-01 | 4.50E-02 | 1.58E-01 | 1.58E-01 | 2.30E-01 | 6.80E-01 | 5E-01 | 2E-01 | 2E-01 | 7E-02 | 7E-01 | 2E-01 | 7E-01 |
| | **Barium** | 2.41E+00 | 5.29E+00 | 7.70E+00 | 7.71E+00 | 5.18E+01 | 1.21E+02 | 5E-02 | 2E-02 | 1E-01 | 4E-02 | 1E-01 | 6E-02 | 1E-01 |
| | **Chromium** | 3.94E-01 | 7.37E-02 | 4.68E-01 | 4.69E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 1E-01 | 3E-02 | 3E-02 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 1.39E-01 | 9.41E-02 | 2.33E-01 | 2.34E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 9E-03 | 3E-02 | 2E-02 | 3E-02 |
| | **Lead** | 3.30E-01 | 5.90E-02 | 3.89E-01 | 3.95E-01 | 4.70E+00 | 8.90E+00 | 7E-02 | 4E-02 | 1E-02 | 7E-03 | 8E-02 | 4E-02 | 8E-02 |
| | **Mercury** | 1.79E-02 | 1.85E-03 | 1.97E-02 | 1.98E-02 | 7.50E-02 | 1.50E-01 | 2E-01 | 1E-01 | 2E-02 | 1E-02 | 3E-01 | 1E-01 | 3E-01 |
| | **Vanadium** | 1.03E-01 | 4.05E-02 | 1.43E-01 | 1.45E-01 | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 1E-02 | 5E-03 | 3E-02 | 2E-02 | 3E-02 |
| **Raccoon - 2** | **tPCB** | 1.88E-02 | 1.88E-01 | 2.07E-01 | 2.07E-01 | 2.30E-01 | 6.80E-01 | 8E-02 | 3E-02 | 8E-01 | 3E-01 | 9E-01 | 3E-01 | 9E-01 |
| | **Barium** | 1.47E-01 | 9.58E+00 | 9.73E+00 | 9.74E+00 | 5.18E+01 | 1.21E+02 | 3E-03 | 1E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 | 2E-01 |
| | **Chromium** | 6.39E-02 | 7.34E-01 | 7.98E-01 | 7.99E-01 | 2.40E+00 | 2.82E+00 | 3E-02 | 2E-02 | 3E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 7.96E-02 | 6.10E-01 | 6.89E-01 | 6.90E-01 | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 8E-02 | 6E-02 | 9E-02 | 7E-02 | 9E-02 |
| | **Lead** | 2.62E-02 | 7.80E-01 | 8.06E-01 | 8.11E-01 | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 | 2E-01 |
| | **Mercury** | 5.42E-04 | 8.37E-03 | 8.91E-03 | 8.95E-03 | 7.50E-02 | 1.50E-01 | 7E-03 | 4E-03 | 1E-01 | 6E-02 | 1E-01 | 6E-02 | 1E-01 |
| | **Vanadium** | 3.19E-02 | 3.38E-01 | 3.70E-01 | 3.71E-01 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 8E-02 | 4E-02 | 9E-02 | 4E-02 | 9E-02 |

**Table E3-87**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C5, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients |
|---|---|---|
| | | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 9E-01 |
| | **Barium** | 9E-01 |
| | **Chromium** | **2E+00** |
| | **Cobalt** | 7E-01 |
| | **Lead** | **3E+00** |
| | **Mercury** | **4E+00** |
| | **Vanadium** | **5E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **1E+01** |
| **GBH - mid** | **tPCB-med** | **2E+00** |
| | **Barium** | 4E-01 |
| | **Chromium** | 8E-01 |
| | **Cobalt** | 9E-02 |
| | **Lead** | 2E-01 |
| | **Mercury** | 1E+00 |
| | **Vanadium** | 8E-01 |
| **GBH - high** | **tPCB-high** | **3E+01** |
| **Mink - 1** | **tPCB-mink** | **3E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **6E+00** |
| | **Barium** | 1E-01 |
| | **Chromium** | 5E-01 |
| | **Cobalt** | 8E-02 |
| | **Lead** | 6E-02 |
| | **Mercury** | 9E-02 |
| | **Vanadium** | 4E-02 |
| **Mink - 2** | **tPCB-mink** | **8E+00** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2E+01** |
| | **Barium** | 1E-01 |
| | **Chromium** | 5E-01 |
| | **Cobalt** | 9E-02 |
| | **Lead** | 2E-02 |
| | **Mercury** | 1E-01 |
| | **Vanadium** | 4E-02 |
| **Raccoon - 1** | **tPCB** | 2E-01 |
| | **Barium** | 6E-02 |
| | **Chromium** | 2E-01 |
| | **Cobalt** | 2E-02 |
| | **Lead** | 4E-02 |
| | **Mercury** | 1E-01 |
| | **Vanadium** | 2E-02 |
| **Raccoon - 2** | **tPCB** | 3E-01 |
| | **Barium** | 8E-02 |
| | **Chromium** | 3E-01 |
| | **Cobalt** | 7E-02 |
| | **Lead** | 9E-02 |
| | **Mercury** | 6E-02 |
| | **Vanadium** | 4E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-88**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C5**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-88**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C5**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians |
| **Tree Swallow - mid** | **tPCB-med** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Tree Swallow - high** | **tPCB-high** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 1 - high** | **tPCB-high** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 2 - high** | **tPCB-high** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **Osprey - mid** | **tPCB-med** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Osprey - high** | **tPCB-high** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **Bat** | **tPCB** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Otter** | **tPCB-mink** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |

**Table E3-88**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C5**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Body Weight | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water |
| **Tree Swallow - mid** | **tPCB-med** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.93E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| | **Barium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 2.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 |
| | **Chromium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 |
| | **Cobalt** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 6.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 |
| | **Lead** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 |
| | **Mercury** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 4.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 |
| | **Vanadium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 |
| **Tree Swallow - high** | **tPCB-high** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.93E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 1.63E-01 | 0.00E+00 | 1.63E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.65E-02 | 2.66E-05 |
| | **Barium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.04E+00 | 2.06E-02 |
| | **Chromium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 3.06E-03 |
| | **Cobalt** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E+00 | 2.07E-03 |
| | **Lead** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E+00 | 1.14E-02 |
| | **Mercury** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.12E-02 | 0.00E+00 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E-02 | 7.31E-05 |
| | **Vanadium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E+00 | 2.91E-03 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 1.63E-01 | 0.00E+00 | 1.63E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.65E-02 | 2.66E-05 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.67E+00 | 0.00E+00 | 0.00E+00 | 2.60E-03 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E+00 | 0.00E+00 | 0.00E+00 | 7.91E-01 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 0.00E+00 | 0.00E+00 | 1.72E-01 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 1.08E-01 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 2.24E-01 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.07E-02 | 0.00E+00 | 0.00E+00 | 2.57E-03 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 1.88E-03 |
| **Kingfisher - 1 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.67E+00 | 0.00E+00 | 0.00E+00 | 2.60E-03 | 1.72E-05 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.85E-02 | 0.00E+00 | 0.00E+00 | 4.31E+00 | 0.00E+00 | 3.61E-02 | 2.60E-03 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E+00 | 0.00E+00 | 0.00E+00 | 3.95E+00 | 0.00E+00 | 3.47E-01 | 7.91E-01 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.33E+00 | 0.00E+00 | 1.42E-01 | 1.72E-01 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.23E-02 | 1.08E-01 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-02 | 0.00E+00 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 3.25E-02 | 2.24E-01 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 6.13E-02 | 0.00E+00 | 1.38E-02 | 2.57E-03 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 1.28E-02 | 1.36E-01 | 1.88E-03 |
| **Kingfisher - 2 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.85E-02 | 0.00E+00 | 0.00E+00 | 4.31E+00 | 0.00E+00 | 3.61E-02 | 2.60E-03 | 1.72E-05 |
| **Osprey - mid** | **tPCB-med** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.25E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| | **Barium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 |
| | **Chromium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 |
| | **Cobalt** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 |
| | **Lead** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 |
| | **Mercury** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 |
| | **Vanadium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 |
| **Osprey - high** | **tPCB-high** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.25E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| **Bat** | **tPCB** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 |
| | **Barium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 |
| | **Chromium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 |
| | **Cobalt** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 5.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 |
| | **Lead** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 |
| | **Mercury** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 3.33E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 |
| | **Vanadium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 |
| **Otter** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.70E-01 | 7.32E-01 | 3.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.70E-01 | 7.32E-01 | 3.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| | **Barium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 1.17E-01 | 3.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 |
| | **Chromium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-02 | 1.46E-02 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 |
| | **Cobalt** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E-03 | 3.49E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 |
| | **Lead** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.15E-03 | 1.64E-03 | 2.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 |
| | **Mercury** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-02 | 1.22E-02 | 5.36E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 |
| | **Vanadium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-02 | 1.14E-03 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 |

**Table E3-88**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C5**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 1.93E-01 | 1.93E-01 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Barium** | 2.72E+00 | 2.75E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 3.21E+00 | 3.21E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 6.82E-02 | 7.07E-02 | 7.61E+00 | 7.80E+00 | 9E-03 | 9E-03 | 9E-03 | 9E-03 |
| | **Lead** | 1.62E-01 | 1.76E-01 | 1.63E+00 | 3.26E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | 4.51E-02 | 4.52E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Vanadium** | 1.40E-01 | 1.44E-01 | 3.44E-01 | 7.00E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | 1.93E-01 | 1.93E-01 | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 3.52E-01 | 3.52E-01 | 4.67E-01 | 1.40E+00 | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| | **Barium** | 1.87E+01 | 1.87E+01 | 2.08E+01 | 4.17E+01 | 9E-01 | 4E-01 | 9E-01 | 4E-01 |
| | **Chromium** | 2.44E+00 | 2.44E+00 | 2.66E+00 | 2.80E+00 | 9E-01 | 9E-01 | 9E-01 | 9E-01 |
| | **Cobalt** | 1.89E+00 | 1.89E+00 | 7.61E+00 | 7.80E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3.34E+00 | 3.36E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | 8.84E-02 | 8.85E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 1.84E+00 | 1.84E+00 | 3.44E-01 | 7.00E-01 | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 3.52E-01 | 3.52E-01 | 4.33E-02 | 1.30E-01 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | 5.68E+00 | 5.68E+00 | 4.67E-01 | 1.40E+00 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 5.98E+00 | 6.00E+00 | 2.08E+01 | 4.17E+01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 1.92E+00 | 1.93E+00 | 2.66E+00 | 2.80E+00 | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Cobalt** | 3.15E+00 | 3.15E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 5.50E-01 | 5.57E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | 8.33E-02 | 8.33E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 3.23E-01 | 3.25E-01 | 3.44E-01 | 7.00E-01 | 9E-01 | 5E-01 | 9E-01 | 5E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 5.68E+00 | 5.68E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | 4.43E+00 | 4.43E+00 | 4.67E-01 | 1.40E+00 | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Barium** | 1.11E+01 | 1.11E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Chromium** | 1.69E+00 | 1.69E+00 | 2.66E+00 | 2.80E+00 | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 3.03E+00 | 3.03E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 6.02E-01 | 6.10E-01 | 1.63E+00 | 3.26E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | 8.39E-02 | 8.39E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 3.32E-01 | 3.34E-01 | 3.44E-01 | 7.00E-01 | 1E+00 | 5E-01 | 1E+00 | 5E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 4.43E+00 | 4.43E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **3E+01** | **1E+02** | **3E+01** |
| **Osprey - mid** | **tPCB-med** | 3.25E+00 | 3.25E+00 | 4.67E-01 | 1.40E+00 | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Barium** | 1.04E+00 | 1.05E+00 | 2.08E+01 | 4.17E+01 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Chromium** | 3.22E-01 | 3.23E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 3.21E-02 | 3.28E-02 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 4E-03 | 4E-03 |
| | **Lead** | 3.86E-02 | 4.21E-02 | 1.63E+00 | 3.26E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 5.24E-02 | 5.24E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | 8.39E-02 | 8.48E-02 | 3.44E-01 | 7.00E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | 3.25E+00 | 3.25E+00 | 4.33E-02 | 1.30E-01 | **7E+01** | **2E+01** | **7E+01** | **2E+01** |
| **Bat** | **tPCB** | 1.43E-01 | 1.43E-01 | 2.30E-01 | 6.80E-01 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 2.01E+00 | 2.03E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.37E+00 | 2.37E+00 | 2.40E+00 | 2.82E+00 | 1E+00 | 8E-01 | 1E+00 | 8E-01 |
| | **Cobalt** | 5.03E-02 | 5.23E-02 | 7.33E+00 | 1.00E+01 | 7E-03 | 5E-03 | 7E-03 | 5E-03 |
| | **Lead** | 1.20E-01 | 1.30E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 3.33E-02 | 3.34E-02 | 7.50E-02 | 1.50E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 1.03E-01 | 1.06E-01 | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | 1.88E+00 | 1.88E+00 | 5.00E-02 | 1.00E-01 | **4E+01** | **2E+01** | **4E+01** | **2E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | 1.88E+00 | 1.88E+00 | na | 5.00E-02 | -- | **4E+01** | -- | **4E+01** |
| | **Barium** | 7.09E-01 | 7.19E-01 | 5.18E+01 | 1.21E+02 | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 2.07E-01 | 2.08E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Cobalt** | 2.13E-01 | 2.14E-01 | 7.33E+00 | 1.00E+01 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 3.24E-02 | 3.79E-02 | 4.70E+00 | 8.90E+00 | 7E-03 | 4E-03 | 8E-03 | 4E-03 |
| | **Mercury** | 3.00E-02 | 3.00E-02 | 7.50E-02 | 1.50E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 3.34E-02 | 3.48E-02 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 8E-03 | 4E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-89**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **1.01E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.18E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **1.01E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| **Blue Jay - mid** | **tPCB-med** | **1.01E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.18E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **1.01E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.01E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.18E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.01E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| **Shrew - 1** | **tPCB** | **1.01E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.18E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **1.01E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.18E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **1.01E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.18E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **1.01E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.18E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **1.01E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **7.31E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.99E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.18E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.81E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-89**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-02 | 1.88E-05 | 8.15E-02 | 8.15E-02 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E-02 | 5.16E-05 | 2.28E-02 | 2.28E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.90E-01 | 2.16E-03 | 7.29E-01 | 7.31E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.28E-01 | 8.08E-03 | 4.43E-01 | 4.51E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.51E-01 | 2.05E-03 | 5.69E-01 | 5.71E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-02 | 1.88E-05 | 8.15E-02 | 8.15E-02 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 7.81E-02 | 0.00E+00 | 2.16E-02 | 2.04E-05 | 1.53E-01 | 1.53E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 4.68E-04 | 0.00E+00 | 5.31E-02 | 0.00E+00 | 1.57E-02 | 5.59E-05 | 7.64E-02 | 7.65E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 4.26E-01 | 2.34E-03 | 1.16E+00 | 1.17E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 4.67E-01 | 8.75E-03 | 2.43E+00 | 2.44E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 6.01E-01 | 2.22E-03 | 7.78E-01 | 7.80E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 7.81E-02 | 0.00E+00 | 2.16E-02 | 2.04E-05 | 1.53E-01 | 1.53E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.70E-01 | 3.51E-01 | 0.00E+00 | 3.44E-02 | 4.23E-05 | 5.75E-01 | 5.75E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 3.05E-03 | 1.15E-01 | 2.39E-01 | 0.00E+00 | 2.49E-02 | 1.16E-04 | 3.83E-01 | 3.84E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 6.79E-01 | 4.86E-03 | 3.72E+00 | 3.72E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 7.44E-01 | 1.82E-02 | 1.37E+01 | 1.38E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 9.59E-01 | 4.62E-03 | 2.04E+00 | 2.04E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.70E-01 | 3.51E-01 | 0.00E+00 | 3.44E-02 | 4.23E-05 | 5.75E-01 | 5.75E-01 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.70E-03 | 3.13E-03 | 2.19E-01 | 1.51E-01 | 0.00E+00 | 3.87E-03 | 2.35E-05 | 3.84E-01 | 3.84E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 9.06E-04 | 1.49E-01 | 1.03E-01 | 0.00E+00 | 2.80E-03 | 6.45E-05 | 2.57E-01 | 2.57E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 7.63E-02 | 2.70E-03 | 1.91E+00 | 1.91E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 8.36E-02 | 1.01E-02 | 9.34E+00 | 9.35E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 1.08E-01 | 2.57E-03 | 8.68E-01 | 8.71E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.40E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-04 | 1.03E-05 | 6.70E-03 | 6.71E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-04 | 2.84E-05 | 1.09E-03 | 1.12E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.83E-03 | 1.19E-03 | 4.10E-02 | 4.21E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.39E-03 | 4.44E-03 | 7.90E-03 | 1.23E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.23E-03 | 1.13E-03 | 1.00E-02 | 1.11E-02 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.84E-01 | 2.57E-03 | 1.72E-05 | 8.87E-01 | 8.87E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.95E-03 | 1.87E-03 | 4.73E-05 | 8.81E-03 | 8.86E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 5.08E-02 | 1.98E-03 | 3.29E-01 | 3.31E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 5.57E-02 | 7.40E-03 | 3.71E-01 | 3.78E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 7.17E-02 | 1.88E-03 | 4.43E-01 | 4.45E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.81E-03 | 0.00E+00 | 7.03E-03 | 0.00E+00 | 4.46E-01 | 1.07E-03 | 1.33E-05 | 4.57E-01 | 4.57E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 4.78E-03 | 0.00E+00 | 3.50E-03 | 7.75E-04 | 3.66E-05 | 9.44E-03 | 9.48E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 1.40E-01 | 2.11E-02 | 1.53E-03 | 2.06E-01 | 2.08E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 1.59E-01 | 2.31E-02 | 5.72E-03 | 3.58E-01 | 3.64E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 1.87E-01 | 2.98E-02 | 1.45E-03 | 2.32E-01 | 2.33E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.27E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.36E-01 | 1.07E-03 | 1.33E-05 | 5.38E-01 | 5.38E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.21E-03 | 7.75E-04 | 3.66E-05 | 5.10E-03 | 5.13E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 2.11E-02 | 1.53E-03 | 1.94E-01 | 1.96E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 2.31E-02 | 5.72E-03 | 2.14E-01 | 2.20E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.98E-02 | 1.45E-03 | 2.55E-01 | 2.56E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-89**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 2E-01 | 6E-02 | 2E-01 | 6E-02 |
| | **Mercury** | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Mourning Dove - high** | **tPCB-high** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| **Blue Jay - mid** | **tPCB-med** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Chromium** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Shrew - 1** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | 1E+00 | **2E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 1E-02 | 7E-03 | 1E-02 | 7E-03 |
| | **Chromium** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 2E-03 | 9E-04 | 3E-03 | 1E-03 |
| | **Vanadium** | 2E-03 | 1E-03 | 3E-03 | 1E-03 |
| **Weasel** | **tPCB** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Mercury** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 7E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-90**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **1.45E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **5.39E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **1.45E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| **Blue Jay - mid** | **tPCB-med** | **1.45E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **5.39E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **1.45E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.45E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **5.39E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.45E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| **Shrew - 1** | **tPCB** | **1.45E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **5.39E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **1.45E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **5.39E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **1.45E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **5.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **1.45E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **5.39E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **1.45E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **9.06E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **2.50E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **5.39E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **3.21E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-90**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.85E-02 | 1.88E-05 | 9.02E-02 | 9.03E-02 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-02 | 5.16E-05 | 2.62E-02 | 2.63E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.91E-01 | 2.16E-03 | 8.29E-01 | 8.32E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E+00 | 8.08E-03 | 1.07E+00 | 1.08E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.29E-01 | 2.05E-03 | 6.47E-01 | 6.49E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.85E-02 | 1.88E-05 | 9.02E-02 | 9.03E-02 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 7.81E-02 | 0.00E+00 | 0.00E+00 | 3.11E-02 | 2.04E-05 | 1.63E-01 | 1.63E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 4.68E-04 | 0.00E+00 | 5.31E-02 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 5.59E-05 | 8.01E-02 | 8.02E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 5.35E-01 | 2.34E-03 | 1.27E+00 | 1.27E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 0.00E+00 | 1.15E+00 | 8.75E-03 | 3.12E+00 | 3.13E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 6.86E-01 | 2.22E-03 | 8.63E-01 | 8.65E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 7.81E-02 | 0.00E+00 | 0.00E+00 | 3.11E-02 | 2.04E-05 | 1.63E-01 | 1.63E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.70E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 4.96E-02 | 4.23E-05 | 5.90E-01 | 5.90E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 3.05E-03 | 1.15E-01 | 2.39E-01 | 0.00E+00 | 0.00E+00 | 3.09E-02 | 1.16E-04 | 3.89E-01 | 3.90E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 8.53E-01 | 4.86E-03 | 3.89E+00 | 3.90E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 1.84E+00 | 1.82E-02 | 1.48E+01 | 1.49E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 4.62E-03 | 2.17E+00 | 2.18E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.70E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 4.96E-02 | 4.23E-05 | 5.90E-01 | 5.90E-01 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.70E-03 | 3.13E-03 | 2.19E-01 | 1.51E-01 | 0.00E+00 | 0.00E+00 | 5.57E-03 | 2.35E-05 | 3.86E-01 | 3.86E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 9.06E-04 | 1.49E-01 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 3.47E-03 | 6.45E-05 | 2.58E-01 | 2.58E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 0.00E+00 | 9.59E-02 | 2.70E-03 | 1.93E+00 | 1.93E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 0.00E+00 | 2.07E-01 | 1.01E-02 | 9.46E+00 | 9.47E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 0.00E+00 | 1.23E-01 | 2.57E-03 | 8.83E-01 | 8.86E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.40E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.26E-04 | 1.03E-05 | 6.83E-03 | 6.84E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.66E-04 | 2.84E-05 | 1.14E-03 | 1.17E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.33E-03 | 1.19E-03 | 4.25E-02 | 4.36E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-02 | 4.44E-03 | 1.73E-02 | 2.17E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.40E-03 | 1.13E-03 | 1.12E-02 | 1.23E-02 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.84E-01 | 3.71E-03 | 1.72E-05 | 8.88E-01 | 8.88E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.95E-03 | 2.31E-03 | 4.73E-05 | 9.26E-03 | 9.30E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 6.38E-02 | 1.98E-03 | 3.42E-01 | 3.44E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 1.38E-01 | 7.40E-03 | 4.53E-01 | 4.60E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 8.18E-02 | 1.88E-03 | 4.53E-01 | 4.55E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.81E-03 | 0.00E+00 | 7.03E-03 | 0.00E+00 | 0.00E+00 | 4.46E-01 | 1.54E-03 | 1.33E-05 | 4.57E-01 | 4.57E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 4.78E-03 | 0.00E+00 | 0.00E+00 | 3.50E-03 | 9.61E-04 | 3.66E-05 | 9.63E-03 | 9.67E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.65E-02 | 1.53E-03 | 2.12E-01 | 2.13E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 5.71E-02 | 5.72E-03 | 3.92E-01 | 3.98E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 3.40E-02 | 1.45E-03 | 2.36E-01 | 2.37E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.27E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.36E-01 | 1.54E-03 | 1.33E-05 | 5.38E-01 | 5.38E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.21E-03 | 9.61E-04 | 3.66E-05 | 5.28E-03 | 5.32E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 2.65E-02 | 1.53E-03 | 2.00E-01 | 2.01E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 5.71E-02 | 5.72E-03 | 2.48E-01 | 2.54E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 3.40E-02 | 1.45E-03 | 2.59E-01 | 2.61E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-90**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 2E-01 | 6E-02 | 2E-01 | 6E-02 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| | **Vanadium** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| **Mourning Dove - high** | **tPCB-high** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| **Blue Jay - mid** | **tPCB-med** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Chromium** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Vanadium** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **9E+00** | **5E+00** | **9E+00** | **5E+00** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Shrew - 1** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 2E-02 | 8E-03 | 2E-02 | 8E-03 |
| | **Chromium** | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 4E-03 | 2E-03 | 5E-03 | 2E-03 |
| | **Vanadium** | 3E-03 | 1E-03 | 3E-03 | 1E-03 |
| **Weasel** | **tPCB** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Mercury** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 7E-02 | 4E-02 | 7E-02 | 4E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-91**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.01E+00** | **8.26E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.12E+02** | **2.51E+02** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.99E+01** | **5.47E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.01E+01** | **3.43E+01** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.18E+01** | **7.10E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **7.31E-01** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.81E+01** | **4.31E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.01E+00** | **8.26E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.01E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **1.12E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **1.99E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **1.01E+01** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **2.18E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **7.31E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **2.81E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.01E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.01E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **1.12E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **1.99E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **1.01E+01** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **2.18E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **7.31E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **2.81E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **1.01E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **1.12E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **1.99E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **1.01E+01** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **2.18E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **7.31E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **2.81E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-91**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Measured Tissue (mg/kg dry weight) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |

**Table E3-91**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.64E+00 | 8.06E-01 | 9.60E-02 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.00E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 |
| | **Mercury** | 3.16E+00 | 1.88E-01 | 2.78E-02 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 2.00E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.64E+00 | 8.06E-01 | 9.60E-02 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.00E-02 |
| **Hawk - mid** | **tPCB-med** | 4.64E+00 | 8.06E-01 | 9.60E-02 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.10E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 |
| | **Mercury** | 3.16E+00 | 1.88E-01 | 2.78E-02 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 1.10E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 |
| **Hawk - high** | **tPCB-high** | 4.64E+00 | 8.06E-01 | 9.60E-02 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.10E+00 |
| **Raccoon - 1** | **tPCB** | 4.64E+00 | 8.06E-01 | 9.60E-02 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 5.60E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 |
| | **Mercury** | 3.16E+00 | 1.88E-01 | 2.78E-02 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 5.60E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 |
| **Shrew - 2** | **tPCB** | 4.64E+00 | 8.06E-01 | 9.60E-02 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.70E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 |
| | **Mercury** | 3.16E+00 | 1.88E-01 | 2.78E-02 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 1.70E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 |

**Table E3-91**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 5.66E-03 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 3.05E-03 | 0.00E+00 | 2.39E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.16E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.24E-02 | 0.00E+00 | 2.58E-04 | 1.24E-02 | 0.00E+00 | 2.12E-02 | 0.00E+00 | 0.00E+00 | 9.14E-03 |
| | **Barium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 |
| | **Chromium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| | **Cobalt** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 |
| | **Lead** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 |
| | **Mercury** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 8.47E-03 | 0.00E+00 | 7.46E-05 | 8.47E-03 | 0.00E+00 | 1.66E-04 | 0.00E+00 | 0.00E+00 | 7.18E-04 |
| | **Vanadium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| **Shrew - 2** | **tPCB** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 9.50E-03 | 0.00E+00 | 2.43E-01 | 0.00E+00 | 2.15E-03 | 1.04E-01 | 0.00E+00 | 9.52E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 1.30E-03 | 0.00E+00 | 1.66E-01 | 0.00E+00 | 6.22E-04 | 7.07E-02 | 0.00E+00 | 7.48E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-91**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.44E-02 | 0.00E+00 | 4.23E-05 | 2.15E-01 | 3.72E-01 | 5.87E-01 | 5.87E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.80E+00 | 0.00E+00 | 3.27E-02 | 1.31E+01 | 1.88E+01 | 3.20E+01 | 3.20E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.79E-01 | 0.00E+00 | 4.86E-03 | 2.20E+00 | 1.54E+00 | 3.74E+00 | 3.74E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.45E-01 | 0.00E+00 | 3.29E-03 | 2.58E+00 | 1.19E+00 | 3.77E+00 | 3.77E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.44E-01 | 0.00E+00 | 1.82E-02 | 5.00E+00 | 8.90E+00 | 1.39E+01 | 1.39E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.49E-02 | 0.00E+00 | 1.16E-04 | 1.43E-01 | 2.44E-01 | 3.88E-01 | 3.88E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.59E-01 | 0.00E+00 | 4.62E-03 | 1.33E+00 | 7.53E-01 | 2.08E+00 | 2.08E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.44E-02 | 0.00E+00 | 4.23E-05 | 2.15E-01 | 3.72E-01 | 5.87E-01 | 5.87E-01 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E+00 | 0.00E+00 | 4.61E-03 | 3.77E-03 | 8.93E-06 | 1.04E+00 | 1.28E+00 | 2.32E+00 | 2.32E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 5.09E-01 | 1.15E+00 | 6.90E-03 | 3.54E+00 | 1.25E+00 | 4.79E+00 | 4.80E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 9.09E-02 | 2.50E-01 | 1.03E-03 | 4.18E-01 | 3.44E-01 | 7.62E-01 | 7.63E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00 | 4.62E-02 | 1.57E-01 | 6.95E-04 | 1.14E+00 | 3.91E-01 | 1.53E+00 | 1.53E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.98E-03 | 0.00E+00 | 9.97E-02 | 3.24E-01 | 3.84E-03 | 4.70E-01 | 3.32E-01 | 8.03E-01 | 8.06E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-02 | 0.00E+00 | 3.34E-03 | 3.72E-03 | 2.45E-05 | 1.15E-02 | 2.15E-02 | 3.30E-02 | 3.30E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.28E-01 | 1.97E-01 | 9.75E-04 | 5.64E-01 | 2.91E-01 | 8.55E-01 | 8.56E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E+00 | 0.00E+00 | 4.61E-03 | 3.77E-03 | 8.93E-06 | 1.04E+00 | 1.28E+00 | 2.32E+00 | 2.32E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 2.71E-02 | 0.00E+00 | 0.00E+00 | 6.56E-02 | 3.69E-03 | 2.54E-03 | 0.00E+00 | 1.30E-05 | 5.40E-02 | 1.06E-01 | 1.60E-01 | 1.60E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 2.81E-01 | 0.00E+00 | 1.00E-02 | 4.56E+00 | 7.44E-01 | 5.30E+00 | 5.31E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 5.02E-02 | 0.00E+00 | 1.49E-03 | 2.09E-01 | 2.69E-02 | 2.36E-01 | 2.38E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.55E-02 | 0.00E+00 | 1.01E-03 | 1.32E-01 | 8.34E-02 | 2.16E-01 | 2.17E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 5.50E-02 | 0.00E+00 | 5.59E-03 | 6.85E-01 | 1.55E-02 | 7.01E-01 | 7.06E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 4.37E-04 | 0.00E+00 | 0.00E+00 | 9.15E-04 | 1.41E-03 | 1.84E-03 | 0.00E+00 | 3.57E-05 | 1.97E-02 | 3.48E-03 | 2.32E-02 | 2.33E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 7.08E-02 | 0.00E+00 | 1.42E-03 | 1.32E-01 | 1.17E-02 | 1.44E-01 | 1.45E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-01 | 5.86E-03 | 3.87E-03 | 3.17E-03 | 2.35E-05 | 4.58E-01 | 1.65E-01 | 6.23E-01 | 6.23E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-02 | 5.62E-02 | 4.28E-01 | 9.62E-01 | 1.82E-02 | 2.35E+01 | 1.03E+00 | 2.45E+01 | 2.45E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.31E-02 | 7.63E-02 | 2.10E-01 | 2.70E-03 | 1.78E+00 | 2.44E-01 | 2.02E+00 | 2.02E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 1.99E-03 | 3.88E-02 | 1.32E-01 | 1.83E-03 | 9.85E-01 | 1.62E-01 | 1.15E+00 | 1.15E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-04 | 5.27E-03 | 8.36E-02 | 2.72E-01 | 1.01E-02 | 8.78E+00 | 2.79E-01 | 9.06E+00 | 9.07E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.18E-03 | 2.24E-03 | 2.80E-03 | 3.13E-03 | 6.45E-05 | 2.42E-01 | 7.55E-03 | 2.49E-01 | 2.49E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.07E-03 | 1.08E-01 | 1.65E-01 | 2.57E-03 | 8.59E-01 | 1.79E-01 | 1.04E+00 | 1.04E+00 | 4.16E+00 | 8.31E+00 |

**Table E3-91**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5E-01 | 2E-01 | 8E-01 | 3E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 6E-01 | 3E-01 | 9E-01 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 8E-01 | 8E-01 | 6E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **3E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Mercury** | **6E+00** | **2E+00** | **1E+01** | **4E+00** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Vanadium** | **4E+00** | **2E+00** | **2E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **5E+00** | **2E+00** | **9E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Hawk - mid** | **tPCB-med** | **2E+00** | 7E-01 | **3E+00** | 9E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 2E-01 | 8E-02 | 6E-02 | 3E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 2E-01 | 1E-01 | 1E-01 | 1E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 5E-02 | 5E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 1E-01 | 2E-01 | 1E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 5E-01 | 2E-01 | 9E-01 | 3E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | 8E-01 | 4E-01 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Hawk - high** | **tPCB-high** | **2E+01** | **8E+00** | **3E+01** | **1E+01** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | 2E-01 | 8E-02 | 5E-01 | 2E-01 | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 9E-02 | 7E-02 | 1E-02 | 1E-02 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 1E-01 | 8E-02 | 3E-03 | 2E-03 | 1E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 3E-01 | 1E-01 | 5E-02 | 2E-02 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 3E-02 | 2E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+00** | 7E-01 | 7E-01 | 2E-01 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 5E-01 | 2E-01 | 2E-02 | 9E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 1E-01 | 9E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 2E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 6E-02 | 3E-02 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **3E+00** | **2E+00** | 1E-01 | 5E-02 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 4E-02 | 2E-02 | 2E-01 | 1E-01 | 3E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-92**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.45E+00** | **8.26E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **9.27E+01** | **2.51E+02** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.50E+01** | **5.47E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.64E+00** | **3.43E+01** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.39E+01** | **7.10E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.06E-01** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **3.21E+01** | **4.31E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.45E+00** | **8.26E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.45E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **9.27E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.50E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.64E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.39E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.06E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **3.21E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.45E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.45E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **9.27E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **2.50E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **7.64E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **5.39E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **9.06E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **3.21E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Shrew - 2** | **tPCB** | **1.45E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **9.27E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.50E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.64E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.39E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **9.06E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **3.21E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-92**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |

**Table E3-92**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | 3.16E+00 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | 3.16E+00 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | 3.16E+00 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | 3.16E+00 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-92**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 5.66E-03 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 3.05E-03 | 0.00E+00 | 2.39E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.16E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.24E-02 | 0.00E+00 | 2.58E-04 | 1.24E-02 | 0.00E+00 | 2.12E-02 | 0.00E+00 | 0.00E+00 | 9.14E-03 | 2.71E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 7.06E-04 | 0.00E+00 | 8.47E-03 | 0.00E+00 | 7.46E-05 | 8.47E-03 | 0.00E+00 | 1.66E-04 | 0.00E+00 | 0.00E+00 | 7.18E-04 | 4.37E-04 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 9.50E-03 | 0.00E+00 | 2.43E-01 | 0.00E+00 | 2.15E-03 | 1.04E-01 | 0.00E+00 | 9.52E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-03 | 0.00E+00 | 1.66E-01 | 0.00E+00 | 6.22E-04 | 7.07E-02 | 0.00E+00 | 7.48E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-92**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 4.96E-02 | 0.00E+00 | 4.23E-05 | 2.30E-01 | 3.72E-01 | 6.02E-01 | 6.02E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 3.16E+00 | 0.00E+00 | 3.27E-02 | 1.25E+01 | 1.88E+01 | 3.13E+01 | 3.14E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 8.53E-01 | 0.00E+00 | 4.86E-03 | 2.37E+00 | 1.54E+00 | 3.91E+00 | 3.91E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.61E-01 | 0.00E+00 | 3.29E-03 | 2.49E+00 | 1.19E+00 | 3.68E+00 | 3.69E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.84E+00 | 0.00E+00 | 1.82E-02 | 6.10E+00 | 8.90E+00 | 1.50E+01 | 1.50E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 3.09E-02 | 0.00E+00 | 1.16E-04 | 1.49E-01 | 2.44E-01 | 3.94E-01 | 3.94E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 4.62E-03 | 1.46E+00 | 7.53E-01 | 2.21E+00 | 2.22E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 4.96E-02 | 0.00E+00 | 4.23E-05 | 2.30E-01 | 3.72E-01 | 6.02E-01 | 6.02E-01 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 1.27E+00 | 0.00E+00 | 6.64E-03 | 3.77E-03 | 8.93E-06 | 1.05E+00 | 1.28E+00 | 2.32E+00 | 2.32E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 1.03E-01 | 0.00E+00 | 4.23E-01 | 1.15E+00 | 6.90E-03 | 3.45E+00 | 1.25E+00 | 4.70E+00 | 4.71E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 9.39E-02 | 0.00E+00 | 1.14E-01 | 2.50E-01 | 1.03E-03 | 4.41E-01 | 3.44E-01 | 7.85E-01 | 7.86E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 2.35E-01 | 0.00E+00 | 3.49E-02 | 1.57E-01 | 6.95E-04 | 1.12E+00 | 3.91E-01 | 1.52E+00 | 1.52E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 7.98E-03 | 0.00E+00 | 2.46E-01 | 3.24E-01 | 3.84E-03 | 6.17E-01 | 3.32E-01 | 9.49E-01 | 9.53E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 1.78E-02 | 0.00E+00 | 4.14E-03 | 3.72E-03 | 2.45E-05 | 1.23E-02 | 2.15E-02 | 3.38E-02 | 3.38E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 9.39E-02 | 0.00E+00 | 1.46E-01 | 1.97E-01 | 9.75E-04 | 5.82E-01 | 2.91E-01 | 8.73E-01 | 8.74E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 1.27E+00 | 0.00E+00 | 6.64E-03 | 3.77E-03 | 8.93E-06 | 1.05E+00 | 1.28E+00 | 2.32E+00 | 2.32E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 6.56E-02 | 3.69E-03 | 3.66E-03 | 0.00E+00 | 1.30E-05 | 5.52E-02 | 1.06E-01 | 1.61E-01 | 1.61E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 5.32E-03 | 3.54E-02 | 2.34E-01 | 0.00E+00 | 1.00E-02 | 4.51E+00 | 7.44E-01 | 5.25E+00 | 5.26E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 4.83E-03 | 1.45E-02 | 6.31E-02 | 0.00E+00 | 1.49E-03 | 2.22E-01 | 2.69E-02 | 2.49E-01 | 2.50E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 1.21E-02 | 1.25E-03 | 1.93E-02 | 0.00E+00 | 1.01E-03 | 1.26E-01 | 8.34E-02 | 2.09E-01 | 2.10E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 4.11E-04 | 3.32E-03 | 1.36E-01 | 0.00E+00 | 5.59E-03 | 7.66E-01 | 1.55E-02 | 7.82E-01 | 7.87E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 9.15E-04 | 1.41E-03 | 2.28E-03 | 0.00E+00 | 3.57E-05 | 2.02E-02 | 3.48E-03 | 2.37E-02 | 2.37E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 4.83E-03 | 1.30E-03 | 8.08E-02 | 0.00E+00 | 1.42E-03 | 1.42E-01 | 1.17E-02 | 1.54E-01 | 1.55E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 1.56E-01 | 5.86E-03 | 5.57E-03 | 3.17E-03 | 2.35E-05 | 4.59E-01 | 1.65E-01 | 6.25E-01 | 6.25E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 1.27E-02 | 5.62E-02 | 3.55E-01 | 9.62E-01 | 1.82E-02 | 2.34E+01 | 1.03E+00 | 2.44E+01 | 2.44E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 1.15E-02 | 2.31E-02 | 9.59E-02 | 2.10E-01 | 2.70E-03 | 1.80E+00 | 2.44E-01 | 2.04E+00 | 2.04E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.88E-02 | 1.99E-03 | 2.93E-02 | 1.32E-01 | 1.83E-03 | 9.75E-01 | 1.62E-01 | 1.14E+00 | 1.14E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 9.79E-04 | 5.27E-03 | 2.07E-01 | 2.72E-01 | 1.01E-02 | 8.90E+00 | 2.79E-01 | 9.18E+00 | 9.19E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 2.18E-03 | 2.24E-03 | 3.47E-03 | 3.13E-03 | 6.45E-05 | 2.42E-01 | 7.55E-03 | 2.50E-01 | 2.50E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 1.15E-02 | 2.07E-03 | 1.23E-01 | 1.65E-01 | 2.57E-03 | 8.74E-01 | 1.79E-01 | 1.05E+00 | 1.06E+00 | 4.16E+00 | 8.31E+00 |

**Table E3-92**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C5, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5E-01 | 2E-01 | 8E-01 | 3E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 6E-01 | 3E-01 | 9E-01 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 9E-01 | 8E-01 | 6E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **4E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **5E+00** | **9E+00** | **5E+00** |
| | **Mercury** | **7E+00** | **2E+00** | **1E+01** | **4E+00** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Vanadium** | **4E+00** | **2E+00** | **2E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **5E+00** | **2E+00** | **9E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Hawk - mid** | **tPCB-med** | **2E+00** | 7E-01 | **3E+00** | 9E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 2E-01 | 8E-02 | 6E-02 | 3E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 2E-01 | 2E-01 | 1E-01 | 1E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 5E-02 | 5E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 4E-01 | 2E-01 | 2E-01 | 1E-01 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Mercury** | 5E-01 | 2E-01 | 9E-01 | 3E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | 8E-01 | 4E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Hawk - high** | **tPCB-high** | **2E+01** | **8E+00** | **3E+01** | **1E+01** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | 2E-01 | 8E-02 | 5E-01 | 2E-01 | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 9E-02 | 8E-02 | 1E-02 | 1E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 2E-01 | 9E-02 | 3E-03 | 2E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Mercury** | 3E-01 | 1E-01 | 5E-02 | 2E-02 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 3E-02 | 2E-02 | 3E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+00** | 7E-01 | 7E-01 | 2E-01 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 5E-01 | 2E-01 | 2E-02 | 9E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 1E-01 | 9E-02 | 9E-01 | 7E-01 | 9E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 2E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 6E-02 | 3E-02 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **3E+00** | **2E+00** | 1E-01 | 5E-02 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 4E-02 | 2E-02 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-93**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C5, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 2** | **tPCB-mink** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Raccoon - 1** | **tPCB** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Raccoon - 2** | **tPCB** | **2.88E+00** | **8.26E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |

**Table E3-93**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C5, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| **GBH - mid** | **tPCB-med** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **GBH - high** | **tPCB-high** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |

**Table E3-93**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C5, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.63E-01 | 4.13E-01 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E+00 | 2.04E+01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 1.73E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.96E-01 | 5.06E-01 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 1.03E+01 | 0.00E+00 |
| | **Mercury** | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.12E-02 | 2.81E-01 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.28E-01 | 8.38E-01 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.63E-01 | 4.13E-01 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.28E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 9.62E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.24E-02 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 |
| | **Mercury** | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 8.47E-03 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 4.46E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.18E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 8.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-93**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C5, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.62E-02 | 1.32E-02 | 2.66E-05 | 4.59E-01 | 1.76E-01 | 6.35E-01 | 6.35E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.20E+00 | 4.02E+00 | 2.06E-02 | 2.26E+01 | 9.36E+00 | 3.19E+01 | 3.20E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.71E-01 | 8.76E-01 | 3.06E-03 | 2.40E+00 | 1.22E+00 | 3.62E+00 | 3.62E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 5.50E-01 | 2.07E-03 | 6.44E-01 | 9.45E-01 | 1.59E+00 | 1.59E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.44E-01 | 1.14E+00 | 1.14E-02 | 1.11E+01 | 1.67E+00 | 1.28E+01 | 1.28E+01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-02 | 1.31E-02 | 7.31E-05 | 3.03E-01 | 4.42E-02 | 3.48E-01 | 3.48E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.52E-01 | 6.91E-01 | 2.91E-03 | 1.09E+00 | 9.18E-01 | 2.01E+00 | 2.01E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.62E-02 | 1.32E-02 | 2.66E-05 | 4.59E-01 | 1.76E-01 | 6.35E-01 | 6.35E-01 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.62E-02 | 0.00E+00 | 0.00E+00 | 4.62E-03 | 7.61E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.23E-02 | 0.00E+00 | 2.91E-03 | 7.05E-06 | 2.62E-02 | 7.65E+00 | 7.68E+00 | 7.68E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 | 0.00E+00 | 0.00E+00 | 3.51E-01 | 2.45E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 8.84E-01 | 5.45E-03 | 7.65E-02 | 3.99E+00 | 4.07E+00 | 4.07E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-03 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 7.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 1.93E-01 | 8.10E-04 | 8.25E-03 | 1.08E+00 | 1.08E+00 | 1.09E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 7.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 1.21E-01 | 5.49E-04 | 2.75E-02 | 2.42E-01 | 2.70E-01 | 2.70E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.35E-03 | 0.00E+00 | 0.00E+00 | 5.78E-03 | 9.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 0.00E+00 | 2.50E-01 | 3.03E-03 | 9.35E-03 | 3.75E-01 | 3.85E-01 | 3.88E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-04 | 0.00E+00 | 0.00E+00 | 3.63E-04 | 1.23E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-02 | 0.00E+00 | 2.87E-03 | 1.94E-05 | 2.06E-04 | 1.38E-01 | 1.38E-01 | 1.38E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 1.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 1.52E-01 | 7.70E-04 | 1.10E-02 | 3.62E-01 | 3.73E-01 | 3.74E-01 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.62E-02 | 0.00E+00 | 0.00E+00 | 4.62E-03 | 7.61E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.23E-02 | 0.00E+00 | 2.91E-03 | 7.05E-06 | 2.62E-02 | 7.65E+00 | 7.68E+00 | 7.68E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-01 | 0.00E+00 | 0.00E+00 | 1.17E-02 | 0.00E+00 | 0.00E+00 | 3.74E-01 | 0.00E+00 | 5.89E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.24E-01 | 4.45E-01 | 7.69E-01 | 7.69E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-01 | 0.00E+00 | 0.00E+00 | 1.17E-02 | 0.00E+00 | 0.00E+00 | 3.74E-01 | 0.00E+00 | 5.89E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.24E-01 | 4.45E-01 | 7.69E-01 | 7.69E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.45E-01 | 0.00E+00 | 0.00E+00 | 8.87E-01 | 0.00E+00 | 0.00E+00 | 3.42E-01 | 0.00E+00 | 5.66E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 9.45E-01 | 1.80E+00 | 2.74E+00 | 2.75E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 2.32E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.02E-01 | 3.54E-01 | 4.56E-01 | 4.58E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 2.00E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 3.10E-01 | 6.50E-01 | 6.51E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 0.00E+00 | 0.00E+00 | 2.15E-02 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.16E-01 | 8.91E-02 | 2.05E-01 | 2.11E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.55E-03 | 0.00E+00 | 0.00E+00 | 9.17E-04 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 0.00E+00 | 2.26E-02 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 2.55E-03 | 2.88E-02 | 3.14E-02 | 3.14E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 0.00E+00 | 2.08E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 3.93E-02 | 1.75E-01 | 1.77E-01 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.42E-02 | 0.00E+00 | 0.00E+00 | 5.19E-03 | 0.00E+00 | 0.00E+00 | 1.53E+00 | 0.00E+00 | 6.80E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.42E-02 | 1.54E+00 | 1.59E+00 | 1.59E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.42E-02 | 0.00E+00 | 0.00E+00 | 5.19E-03 | 0.00E+00 | 0.00E+00 | 1.53E+00 | 0.00E+00 | 6.80E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.42E-02 | 1.54E+00 | 1.59E+00 | 1.59E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 3.94E-01 | 0.00E+00 | 0.00E+00 | 1.40E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.29E-01 | 1.90E+00 | 2.02E+00 | 2.04E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 4.73E-01 | 0.00E+00 | 2.68E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.39E-02 | 5.04E-01 | 5.18E-01 | 5.19E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.80E-01 | 9.27E-01 | 9.28E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 6.50E-03 | 0.00E+00 | 0.00E+00 | 8.80E-02 | 0.00E+00 | 6.11E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.58E-02 | 1.04E-01 | 1.20E-01 | 1.27E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.47E-04 | 0.00E+00 | 0.00E+00 | 4.08E-04 | 0.00E+00 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 2.60E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 3.47E-04 | 2.49E-02 | 2.53E-02 | 2.53E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 5.05E-02 | 0.00E+00 | 2.40E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 5.66E-02 | 7.52E-02 | 7.69E-02 |
| **Raccoon - 1** | **tPCB** | 2.58E-04 | 1.24E-02 | 0.00E+00 | 2.12E-02 | 0.00E+00 | 0.00E+00 | 9.14E-03 | 2.71E-02 | 0.00E+00 | 0.00E+00 | 6.56E-02 | 3.69E-03 | 7.27E-03 | 0.00E+00 | 1.30E-05 | 5.88E-02 | 1.06E-01 | 1.64E-01 | 1.64E-01 |
| | **Barium** | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 3.45E-01 | 0.00E+00 | 1.00E-02 | 4.62E+00 | 7.44E-01 | 5.36E+00 | 5.37E+00 |
| | **Chromium** | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 1.06E-01 | 0.00E+00 | 1.49E-03 | 2.65E-01 | 2.69E-02 | 2.92E-01 | 2.93E-01 |
| | **Cobalt** | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.17E-02 | 0.00E+00 | 1.01E-03 | 1.29E-01 | 8.34E-02 | 2.12E-01 | 2.13E-01 |
| | **Lead** | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 1.33E-01 | 0.00E+00 | 5.59E-03 | 7.63E-01 | 1.55E-02 | 7.79E-01 | 7.84E-01 |
| | **Mercury** | 7.46E-05 | 8.47E-03 | 0.00E+00 | 1.66E-04 | 0.00E+00 | 0.00E+00 | 7.18E-04 | 4.37E-04 | 0.00E+00 | 0.00E+00 | 9.15E-04 | 1.41E-03 | 3.48E-03 | 0.00E+00 | 3.57E-05 | 2.14E-02 | 3.48E-03 | 2.49E-02 | 2.49E-02 |
| | **Vanadium** | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 3.96E-02 | 0.00E+00 | 1.42E-03 | 1.01E-01 | 1.17E-02 | 1.13E-01 | 1.14E-01 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.59E-02 | 1.47E-03 | 3.31E-02 | 9.14E-03 | 2.84E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-02 | 0.00E+00 | 2.08E-03 | 1.30E-05 | 7.59E-02 | 3.49E-01 | 4.25E-01 | 4.25E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-01 | 4.83E-02 | 1.19E-01 | 6.95E-01 | 9.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 6.33E-01 | 1.00E-02 | 2.21E-01 | 2.05E+00 | 2.27E+00 | 2.28E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-02 | 3.11E-03 | 4.68E-02 | 4.84E-03 | 2.81E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-02 | 0.00E+00 | 1.38E-01 | 1.49E-03 | 2.39E-02 | 2.93E-01 | 3.17E-01 | 3.19E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-02 | 3.58E-03 | 1.35E-02 | 6.97E-02 | 2.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-03 | 0.00E+00 | 8.65E-02 | 1.01E-03 | 7.96E-02 | 3.40E-01 | 4.19E-01 | 4.20E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-02 | 4.83E-03 | 1.56E-02 | 1.15E-02 | 3.38E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 1.79E-01 | 5.59E-03 | 2.71E-02 | 2.60E-01 | 2.87E-01 | 2.92E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.96E-04 | 2.82E-04 | 1.26E-03 | 7.18E-04 | 4.57E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.65E-03 | 0.00E+00 | 2.06E-03 | 3.57E-05 | 5.96E-04 | 1.57E-02 | 1.63E-02 | 1.63E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 | 2.06E-03 | 6.56E-03 | 4.84E-03 | 7.33E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-03 | 0.00E+00 | 1.09E-01 | 1.42E-03 | 3.19E-02 | 1.44E-01 | 1.75E-01 | 1.77E-01 |

**Table E3-93**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C5, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 1E+00 | 3E-01 | 4E-01 | 1E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Barium** | 2.08E+01 | 4.17E+01 | **1E+00** | 5E-01 | 5E-01 | 2E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 9E-01 | 9E-01 | 5E-01 | 4E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 8E-02 | 8E-02 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **7E+00** | **3E+00** | 1E+00 | 5E-01 | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **1E+01** | **4E+00** | **2E+00** | 7E-01 | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **3E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+01** | **4E+00** | **4E+00** | **1E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **GBH - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 6E-02 | 2E-02 | **2E+01** | **5E+00** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 4E-03 | 2E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 4E-01 | 4E-01 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 3E-02 | 3E-02 | 4E-02 | 3E-02 | 4E-02 | 3E-02 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 9E-03 | 3E-03 | **6E+00** | **2E+00** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | **1E+00** | 5E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| **GBH - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | 6E-01 | 2E-01 | **2E+02** | **6E+01** | **2E+02** | **6E+01** | **2E+02** | **6E+01** |
| **Mink - 1** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | **6E+00** | **3E+00** | **9E+00** | **4E+00** | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | **6E+00** | **--** | **9E+00** | **--** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-02 | 8E-03 | 3E-02 | 1E-02 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 4E-02 | 4E-02 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 | 6E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 3E-02 | 2E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 5E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Mink - 2** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | 9E-01 | 4E-01 | **3E+01** | **2E+01** | **3E+01** | **2E+01** | **3E+01** | **2E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | 9E-01 | **--** | **3E+01** | **--** | **3E+01** | **--** | **3E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 6E-03 | 5E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 2E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 5E-03 | 2E-03 | 3E-01 | 2E-01 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-01 | 9E-02 | 5E-01 | 2E-01 | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-01 | 9E-02 | 1E-02 | 1E-02 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-01 | 9E-02 | 3E-03 | 2E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 3E-01 | 1E-01 | 5E-02 | 2E-02 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | **2E+00** | 5E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 4E-03 | 2E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-02 | 8E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 5E-02 | 3E-02 | 6E-02 | 4E-02 | 6E-02 | 4E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 6E-02 | 3E-02 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 8E-03 | 4E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-94**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C5, Subarea Soil - North**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **1.01E+00** | **8.26E-01** | 1.00E+01 | 1.28E-02 | NA | 1.28E-02 | 5.13E-01 | -- | 5.13E-01 | 2.80E+01 | 6.60E+01 | 2E-02 | 8E-03 | -- | -- | 2E-02 | 8E-03 |
| | **Mercury** | **7.31E-01** | **8.15E-01** | 8.00E-01 | 2.34E-03 | NA | 2.35E-03 | 7.49E-03 | -- | 7.51E-03 | 4.40E-01 | 8.00E-01 | 2E-02 | 9E-03 | -- | -- | 2E-02 | 9E-03 |
| **Mourning Dove - high** | **tPCB-high** | **1.01E+00** | **8.26E-01** | 1.00E+01 | 1.28E-02 | NA | 1.28E-02 | 5.13E-01 | -- | 5.13E-01 | 2.10E+00 | 4.50E+00 | 2E-01 | 1E-01 | -- | -- | 2E-01 | 1E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.01E+00** | **8.26E-01** | 1.00E+01 | 1.47E-02 | NA | 1.47E-02 | 5.86E-01 | -- | 5.87E-01 | 2.80E+01 | 6.60E+01 | 2E-02 | 9E-03 | -- | -- | 2E-02 | 9E-03 |
| | **Mercury** | **7.31E-01** | **8.15E-01** | 8.00E-01 | 4.16E-03 | NA | 4.17E-03 | 1.33E-02 | -- | 1.33E-02 | 4.40E-01 | 8.00E-01 | 3E-02 | 2E-02 | -- | -- | 3E-02 | 2E-02 |
| **Blue Jay - high** | **tPCB-high** | **1.01E+00** | **8.26E-01** | 1.00E+01 | 1.47E-02 | NA | 1.47E-02 | 5.86E-01 | -- | 5.87E-01 | 2.10E+00 | 4.50E+00 | 3E-01 | 1E-01 | -- | -- | 3E-01 | 1E-01 |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **1.01E+00** | **8.26E-01** | 1.00E+01 | 1.07E-02 | NA | 1.07E-02 | 4.29E-01 | -- | 4.29E-01 | 2.80E+01 | 6.60E+01 | 2E-02 | 6E-03 | -- | -- | 2E-02 | 6E-03 |
| | **Mercury** | **7.31E-01** | **8.15E-01** | 8.00E-01 | 4.23E-03 | NA | 4.23E-03 | 1.35E-02 | -- | 1.35E-02 | 4.40E-01 | 8.00E-01 | 3E-02 | 2E-02 | -- | -- | 3E-02 | 2E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.01E+00** | **8.26E-01** | 1.00E+01 | 1.07E-02 | NA | 1.07E-02 | 4.29E-01 | -- | 4.29E-01 | 2.10E+00 | 4.50E+00 | 2E-01 | 1E-01 | -- | -- | 2E-01 | 1E-01 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.01E+00** | **8.26E-01** | 1.00E+01 | 4.12E-03 | 5.18E-03 | 9.31E-03 | 1.65E-01 | 2.07E-01 | 3.72E-01 | 2.80E+01 | 6.60E+01 | 6E-03 | 2E-03 | 7E-03 | 3E-03 | 1E-02 | 6E-03 |
| | **Mercury** | **7.31E-01** | **8.15E-01** | 8.00E-01 | 1.73E-03 | 2.67E-03 | 4.40E-03 | 5.53E-03 | 8.55E-03 | 1.41E-02 | 4.40E-01 | 8.00E-01 | 1E-02 | 7E-03 | 2E-02 | 1E-02 | 3E-02 | 2E-02 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **1.01E+00** | **8.26E-01** | 1.00E+01 | 4.12E-03 | 5.18E-03 | 9.31E-03 | 1.65E-01 | 2.07E-01 | 3.72E-01 | 2.10E+00 | 4.50E+00 | 8E-02 | 4E-02 | 1E-01 | 5E-02 | 2E-01 | 8E-02 |
| **Hawk - mid** | **tPCB-med** | **1.01E+00** | **8.26E-01** | 1.00E+01 | 1.65E-01 | 5.98E-01 | 7.63E-01 | 6.59E+00 | 2.39E+01 | 3.05E+01 | 2.80E+01 | 6.60E+01 | 2E-01 | 1E-01 | 9E-01 | 4E-01 | **1E+00** | 5E-01 |
| | **Mercury** | **7.31E-01** | **8.15E-01** | 8.00E-01 | 7.99E-03 | 1.64E-02 | 2.44E-02 | 2.56E-02 | 5.25E-02 | 7.81E-02 | 4.40E-01 | 8.00E-01 | 6E-02 | 3E-02 | 1E-01 | 7E-02 | 2E-01 | 1E-01 |
| **Hawk - high** | **tPCB-high** | **1.01E+00** | **8.26E-01** | 1.00E+01 | 1.65E-01 | 5.98E-01 | 7.63E-01 | 6.59E+00 | 2.39E+01 | 3.05E+01 | 2.10E+00 | 4.50E+00 | **3E+00** | **1E+00** | **1E+01** | **5E+00** | **1E+01** | **7E+00** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-95**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C5, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **1.45E+00** | **8.26E-01** | 1.00E+01 | 1.76E-02 | NA | 1.76E-02 | 7.04E-01 | -- | 7.04E-01 | 2.80E+01 | 6.60E+01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| | **Mercury** | **9.06E-01** | **8.15E-01** | 8.00E-01 | 2.90E-03 | NA | 2.91E-03 | 9.29E-03 | -- | 9.31E-03 | 4.40E-01 | 8.00E-01 | 2E-02 | 1E-02 | -- | -- | 2E-02 | 1E-02 |
| **Mourning Dove - high** | **tPCB-high** | **1.45E+00** | **8.26E-01** | 1.00E+01 | 1.76E-02 | NA | 1.76E-02 | 7.04E-01 | -- | 7.04E-01 | 2.10E+00 | 4.50E+00 | 3E-01 | 2E-01 | -- | -- | 3E-01 | 2E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.45E+00** | **8.26E-01** | 1.00E+01 | 2.09E-02 | NA | 2.09E-02 | 8.38E-01 | -- | 8.38E-01 | 2.80E+01 | 6.60E+01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| | **Mercury** | **9.06E-01** | **8.15E-01** | 8.00E-01 | 4.92E-03 | NA | 4.92E-03 | 1.57E-02 | -- | 1.58E-02 | 4.40E-01 | 8.00E-01 | 4E-02 | 2E-02 | -- | -- | 4E-02 | 2E-02 |
| **Blue Jay - high** | **tPCB-high** | **1.45E+00** | **8.26E-01** | 1.00E+01 | 2.09E-02 | NA | 2.09E-02 | 8.38E-01 | -- | 8.38E-01 | 2.10E+00 | 4.50E+00 | 4E-01 | 2E-01 | -- | -- | 4E-01 | 2E-01 |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **1.45E+00** | **8.26E-01** | 1.00E+01 | 1.60E-02 | NA | 1.60E-02 | 6.39E-01 | -- | 6.39E-01 | 2.80E+01 | 6.60E+01 | 2E-02 | 1E-02 | -- | -- | 2E-02 | 1E-02 |
| | **Mercury** | **9.06E-01** | **8.15E-01** | 8.00E-01 | 4.87E-03 | NA | 4.87E-03 | 1.56E-02 | -- | 1.56E-02 | 4.40E-01 | 8.00E-01 | 4E-02 | 2E-02 | -- | -- | 4E-02 | 2E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.45E+00** | **8.26E-01** | 1.00E+01 | 1.60E-02 | NA | 1.60E-02 | 6.39E-01 | -- | 6.39E-01 | 2.10E+00 | 4.50E+00 | 3E-01 | 1E-01 | -- | -- | 3E-01 | 1E-01 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.45E+00** | **8.26E-01** | 1.00E+01 | 6.12E-03 | 5.18E-03 | 1.13E-02 | 2.45E-01 | 2.07E-01 | 4.52E-01 | 2.80E+01 | 6.60E+01 | 9E-03 | 4E-03 | 7E-03 | 3E-03 | 2E-02 | 7E-03 |
| | **Mercury** | **9.06E-01** | **8.15E-01** | 8.00E-01 | 2.02E-03 | 2.67E-03 | 4.69E-03 | 6.47E-03 | 8.55E-03 | 1.50E-02 | 4.40E-01 | 8.00E-01 | 1E-02 | 8E-03 | 2E-02 | 1E-02 | 3E-02 | 2E-02 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **1.45E+00** | **8.26E-01** | 1.00E+01 | 6.12E-03 | 5.18E-03 | 1.13E-02 | 2.45E-01 | 2.07E-01 | 4.52E-01 | 2.10E+00 | 4.50E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 | 2E-01 | 1E-01 |
| **Hawk - mid** | **tPCB-med** | **1.45E+00** | **8.26E-01** | 1.00E+01 | 2.02E-01 | 5.98E-01 | 8.00E-01 | 8.09E+00 | 2.39E+01 | 3.20E+01 | 2.80E+01 | 6.60E+01 | 3E-01 | 1E-01 | 9E-01 | 4E-01 | **1E+00** | 5E-01 |
| | **Mercury** | **9.06E-01** | **8.15E-01** | 8.00E-01 | 9.90E-03 | 1.64E-02 | 2.63E-02 | 3.17E-02 | 5.25E-02 | 8.42E-02 | 4.40E-01 | 8.00E-01 | 7E-02 | 4E-02 | 1E-01 | 7E-02 | 2E-01 | 1E-01 |
| **Hawk - high** | **tPCB-high** | **1.45E+00** | **8.26E-01** | 1.00E+01 | 2.02E-01 | 5.98E-01 | 8.00E-01 | 8.09E+00 | 2.39E+01 | 3.20E+01 | 2.10E+00 | 4.50E+00 | **4E+00** | **2E+00** | **1E+01** | **5E+00** | **2E+01** | **7E+00** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-96**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C5, Aquatic and Subarea Soil - Riparian**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Tree Swallow - mid** | **tPCB-med** | **2.88E+00** | **8.26E-01** | 1.00E+01 | NA | 2.22E-03 | 2.23E-03 | -- | 8.90E-02 | 8.90E-02 | 2.80E+01 | 6.60E+01 | -- | -- | 3E-03 | 1E-03 | 3E-03 | 1E-03 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | 8.00E-01 | NA | 5.27E-04 | 5.28E-04 | -- | 1.69E-03 | 1.69E-03 | 4.40E-01 | 8.00E-01 | -- | -- | 4E-03 | 2E-03 | 4E-03 | 2E-03 |
| **Tree Swallow - high** | **tPCB-high** | **2.88E+00** | **8.26E-01** | 1.00E+01 | NA | 2.22E-03 | 2.23E-03 | -- | 8.90E-02 | 8.90E-02 | 2.10E+00 | 4.50E+00 | -- | -- | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.88E+00** | **8.26E-01** | 1.00E+01 | 5.17E-02 | 4.18E-03 | 5.59E-02 | 2.07E+00 | 1.67E-01 | 2.24E+00 | 2.80E+01 | 6.60E+01 | 7E-02 | 3E-02 | 6E-03 | 3E-03 | 8E-02 | 3E-02 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | 8.00E-01 | 1.05E-02 | 1.70E-03 | 1.22E-02 | 3.35E-02 | 5.43E-03 | 3.90E-02 | 4.40E-01 | 8.00E-01 | 8E-02 | 4E-02 | 1E-02 | 7E-03 | 9E-02 | 5E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.88E+00** | **8.26E-01** | 1.00E+01 | 5.17E-02 | 4.18E-03 | 5.59E-02 | 2.07E+00 | 1.67E-01 | 2.24E+00 | 2.10E+00 | 4.50E+00 | 1E+00 | 5E-01 | 8E-02 | 4E-02 | **1E+00** | 5E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **2.88E+00** | **8.26E-01** | 1.00E+01 | NA | 1.93E-01 | 1.93E-01 | -- | 7.72E+00 | 7.72E+00 | 2.80E+01 | 6.60E+01 | -- | -- | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | 8.00E-01 | NA | 5.38E-03 | 5.38E-03 | -- | 1.72E-02 | 1.72E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **2.88E+00** | **8.26E-01** | 1.00E+01 | NA | 1.93E-01 | 1.93E-01 | -- | 7.72E+00 | 7.72E+00 | 2.10E+00 | 4.50E+00 | -- | -- | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **2.88E+00** | **8.26E-01** | 1.00E+01 | NA | 4.24E-01 | 4.24E-01 | -- | 1.70E+01 | 1.70E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | 8.00E-01 | NA | 8.89E-03 | 8.90E-03 | -- | 2.84E-02 | 2.85E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 6E-02 | 4E-02 | 6E-02 | 4E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **2.88E+00** | **8.26E-01** | 1.00E+01 | NA | 4.24E-01 | 4.24E-01 | -- | 1.70E+01 | 1.70E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **2.88E+00** | **8.26E-01** | 1.00E+01 | NA | 3.30E-01 | 3.30E-01 | -- | 1.32E+01 | 1.32E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | **1.38E+00** | **8.15E-01** | 8.00E-01 | NA | 8.25E-03 | 8.26E-03 | -- | 2.64E-02 | 2.64E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **2.88E+00** | **8.26E-01** | 1.00E+01 | NA | 3.30E-01 | 3.30E-01 | -- | 1.32E+01 | 1.32E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **GBH - mid** | **tPCB-med** | **2.88E+00** | **8.26E-01** | 1.00E+01 | 1.49E-02 | 7.50E+00 | 7.52E+00 | 5.97E-01 | 3.00E+02 | 3.01E+02 | 2.80E+01 | 6.60E+01 | 2E-02 | 9E-03 | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Mercury** | **1.38E+00** | **8.15E-01** | 8.00E-01 | 4.30E-04 | 1.61E-01 | 1.62E-01 | 1.38E-03 | 5.17E-01 | 5.18E-01 | 4.40E-01 | 8.00E-01 | 3E-03 | 2E-03 | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **GBH - high** | **tPCB-high** | **2.88E+00** | **8.26E-01** | 1.00E+01 | 1.49E-02 | 7.50E+00 | 7.52E+00 | 5.97E-01 | 3.00E+02 | 3.01E+02 | 2.10E+00 | 4.50E+00 | 3E-01 | 1E-01 | **1E+02** | **7E+01** | **1E+02** | **7E+01** |
| **Osprey - mid** | **tPCB-med** | **2.88E+00** | **8.26E-01** | 1.00E+01 | NA | 2.21E+00 | 2.21E+00 | -- | 8.86E+01 | 8.86E+01 | 2.80E+01 | 6.60E+01 | -- | -- | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | **1.38E+00** | **8.15E-01** | 8.00E-01 | NA | 4.33E-02 | 4.33E-02 | -- | 1.38E-01 | 1.39E-01 | 4.40E-01 | 8.00E-01 | -- | -- | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| **Osprey - high** | **tPCB-high** | **2.88E+00** | **8.26E-01** | 1.00E+01 | NA | 2.21E+00 | 2.21E+00 | -- | 8.86E+01 | 8.86E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **4E+01** | **2E+01** | **4E+01** | **2E+01** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-97**

**Lower Trophic Level Terrestrial Risk Calculations For Reach C6**

**Anniston PCB Site, Anniston, Alabama**

| Media | Receptor Community | COPC | Soil EPC (mg/kg) | Toxicity Benchmarks[a] (mg/kg) | | Hazard Quotients | |
|---|---|---|---|---|---|---|---|
| | | | | NOAEL | LOAEL | NOAEL | LOAEL |
| Soil - North | **Terrestrial Plants** | **PCB** | 1.83E+00 | 4.00E+01 | NA | 5E-02 | -- |
| | | **Chromium** | 1.84E+01 | 1.00E+00 | NA | **2E+01** | -- |
| | | **Lead** | 2.55E+01 | 1.20E+02 | NA | 2E-01 | -- |
| | | **Mercury** | 1.56E+00 | 3.00E-01 | NA | **5E+00** | -- |
| | | **Vanadium** | 2.72E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 1.83E+00 | 3.60E+00 | 3.60E+01 | 5E-01 | 5E-02 |
| | | **Chromium** | 1.84E+01 | 4.00E-01 | NA | **5E+01** | -- |
| | | **Lead** | 2.55E+01 | 1.70E+03 | NA | 2E-02 | -- |
| | | **Mercury** | 1.56E+00 | 1.00E-01 | 0.23 | **2E+01** | **7E+00** |
| | | **Vanadium** | 2.72E+01 | NA | NA | -- | -- |
| Soil - South | **Terrestrial Plants** | **PCB** | 2.72E+00 | 4.00E+01 | NA | 7E-02 | -- |
| | | **Chromium** | 1.00E+01 | 1.00E+00 | NA | **1E+01** | -- |
| | | **Lead** | 1.43E+01 | 1.20E+02 | NA | 1E-01 | -- |
| | | **Mercury** | 2.75E+00 | 3.00E-01 | NA | **9E+00** | -- |
| | | **Vanadium** | 1.29E+01 | 2.00E+00 | NA | **6E+00** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 2.72E+00 | 3.60E+00 | 3.60E+01 | 8E-01 | 8E-02 |
| | | **Chromium** | 1.00E+01 | 4.00E-01 | NA | **3E+01** | -- |
| | | **Lead** | 1.43E+01 | 1.70E+03 | NA | 8E-03 | -- |
| | | **Mercury** | 2.75E+00 | 1.00E-01 | 0.23 | **3E+01** | **1E+01** |
| | | **Vanadium** | 1.29E+01 | NA | NA | -- | -- |
| Soil - Riparian | **Terrestrial Plants** | **PCB** | 2.59E+00 | 4.00E+01 | NA | 6E-02 | -- |
| | | **Chromium** | 1.84E+01 | 1.00E+00 | NA | **2E+01** | -- |
| | | **Lead** | 2.55E+01 | 1.20E+02 | NA | 2E-01 | -- |
| | | **Mercury** | 2.01E+00 | 3.00E-01 | NA | **7E+00** | -- |
| | | **Vanadium** | 1.33E+01 | 2.00E+00 | NA | **7E+00** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 2.59E+00 | 3.60E+00 | 3.60E+01 | 7E-01 | 7E-02 |
| | | **Chromium** | 1.84E+01 | 4.00E-01 | NA | **5E+01** | -- |
| | | **Lead** | 2.55E+01 | 1.70E+03 | NA | 2E-02 | -- |
| | | **Mercury** | 2.01E+00 | 1.00E-01 | 0.23 | **2E+01** | **9E+00** |
| | | **Vanadium** | 1.33E+01 | NA | NA | -- | -- |

**Notes:**

a = NOAELs represent chronic values and LOAELs represent acute values
COPC = constituent of potential concern
EPC - exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
NA = not applicable
NOAEL = no observed adverse effect level
OU = Operable Unit
PCB = total polychlorinated biphenyl

**Bold indicates hazard quotients greater than 1**

**Table E3-98**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C6**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-98**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C6**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | |
|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Tree Swallow - mid** | **tPCB-med** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Tree Swallow - high** | **tPCB-high** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Osprey - mid** | **tPCB-med** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Osprey - high** | **tPCB-high** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Bat** | **tPCB** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Otter** | **tPCB-mink** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |

**Table E3-98**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C6**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-98**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C6**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 2.15E-02 | 2.16E-02 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 3.21E+00 | 3.24E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.44E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 1.44E+01 | 1.44E+01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 6.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 6.10E-01 | 6.13E-01 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 3.50E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 3.50E-01 | 3.64E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 2.51E-02 | 2.52E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 8.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 8.28E-01 | 8.31E-01 | 3.44E-01 | 7.00E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 2.15E-02 | 2.16E-02 | 4.33E-02 | 1.30E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 1.71E-02 | 0.00E+00 | 1.61E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.38E-03 | 2.66E-05 | 1.63E+00 | 1.63E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 2.04E+01 | 0.00E+00 | 2.04E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.04E+00 | 2.06E-02 | 4.88E+01 | 4.88E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 1.72E+00 | 0.00E+00 | 1.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 3.06E-03 | 5.19E+00 | 5.19E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 3.80E+00 | 0.00E+00 | 3.80E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E+00 | 2.07E-03 | 8.70E+00 | 8.70E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 5.04E+00 | 0.00E+00 | 5.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E+00 | 1.14E-02 | 1.24E+01 | 1.24E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 2.64E-02 | 0.00E+00 | 7.26E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E-02 | 7.31E-05 | 1.25E-01 | 1.25E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 1.68E+00 | 0.00E+00 | 1.68E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E+00 | 2.91E-03 | 4.73E+00 | 4.74E+00 | 3.44E-01 | 7.00E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 1.71E-02 | 0.00E+00 | 1.61E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.38E-03 | 2.66E-05 | 1.63E+00 | 1.63E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.83E-01 | 0.00E+00 | 0.00E+00 | 5.30E-04 | 1.72E-05 | 5.83E-01 | 5.83E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E+01 | 0.00E+00 | 0.00E+00 | 7.91E-01 | 1.33E-02 | 3.79E+01 | 3.79E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.10E+00 | 0.00E+00 | 0.00E+00 | 1.72E-01 | 1.98E-03 | 5.28E+00 | 5.28E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 1.08E-01 | 1.34E-03 | 3.15E+00 | 3.15E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.44E-01 | 0.00E+00 | 0.00E+00 | 2.24E-01 | 7.40E-03 | 4.67E-01 | 4.75E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.75E-02 | 0.00E+00 | 0.00E+00 | 2.57E-03 | 4.73E-05 | 6.01E-02 | 6.01E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 1.88E-03 | 1.23E+00 | 1.23E+00 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.83E-01 | 0.00E+00 | 0.00E+00 | 5.30E-04 | 1.72E-05 | 5.83E-01 | 5.83E-01 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.90E-03 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 3.30E-03 | 5.30E-04 | 1.72E-05 | 4.54E-01 | 4.54E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.27E+01 | 0.00E+00 | 0.00E+00 | 2.82E+01 | 0.00E+00 | 2.32E+00 | 7.91E-01 | 1.33E-02 | 7.40E+01 | 7.40E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-01 | 0.00E+00 | 0.00E+00 | 3.88E+00 | 0.00E+00 | 4.76E-01 | 1.72E-01 | 1.98E-03 | 4.65E+00 | 4.66E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.05E-01 | 1.08E-01 | 1.34E-03 | 3.13E+00 | 3.13E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-01 | 0.00E+00 | 0.00E+00 | 1.85E-01 | 0.00E+00 | 2.20E-01 | 2.24E-01 | 7.40E-03 | 9.04E-01 | 9.12E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.37E-03 | 0.00E+00 | 0.00E+00 | 4.37E-02 | 0.00E+00 | 4.11E-03 | 2.57E-03 | 4.73E-05 | 5.57E-02 | 5.58E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.42E-01 | 0.00E+00 | 0.00E+00 | 8.29E-01 | 0.00E+00 | 6.13E-02 | 1.36E-01 | 1.88E-03 | 1.27E+00 | 1.27E+00 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.90E-03 | 0.00E+00 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 3.30E-03 | 5.30E-04 | 1.72E-05 | 4.54E-01 | 4.54E-01 | 4.33E-02 | 1.30E-01 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.82E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 2.82E-01 | 2.82E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.24E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 5.24E+00 | 5.25E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.75E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 6.75E-01 | 6.76E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 1.80E-01 | 1.80E-01 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 1.28E-01 | 1.32E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 2.70E-02 | 2.71E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 1.48E-01 | 1.49E-01 | 3.44E-01 | 7.00E-01 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.82E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 2.82E-01 | 2.82E-01 | 4.33E-02 | 1.30E-01 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.59E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 1.59E-02 | 1.59E-02 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 2.37E+00 | 2.39E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.06E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 1.06E+01 | 1.06E+01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 4.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 4.51E-01 | 4.53E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 2.59E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 2.59E-01 | 2.69E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 1.85E-02 | 1.86E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 6.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 6.11E-01 | 6.14E-01 | 4.16E+00 | 8.31E+00 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.67E-02 | 6.00E-02 | 3.87E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.65E-01 | 1.65E-01 | 5.00E-02 | 1.00E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.67E-02 | 6.00E-02 | 3.87E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.65E-01 | 1.65E-01 | na | 5.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E+00 | 4.50E-01 | 2.46E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 4.16E+00 | 4.17E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E-01 | 6.69E-02 | 3.39E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 5.66E-01 | 5.67E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.26E-02 | 1.58E-02 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.60E-01 | 2.61E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E-02 | 1.39E-02 | 1.62E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 6.05E-02 | 6.59E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.40E-03 | 8.37E-03 | 3.82E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 1.86E-02 | 1.86E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.51E-02 | 9.22E-03 | 7.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 1.17E-01 | 1.18E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-98**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C6**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Barium** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | **5E+00** | **5E+00** | **5E+00** | **5E+00** |
| | **Cobalt** | 8E-02 | 8E-02 | 8E-02 | 8E-02 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Tree Swallow - high** | **tPCB-high** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Mercury** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | **1E+01** | **7E+00** | **1E+01** | **7E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Vanadium** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Kingfisher - 1 - high** | **tPCB-high** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Kingfisher - 2 - mid** | **tPCB-med** | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Barium** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Mercury** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Kingfisher - 2 - high** | **tPCB-high** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| **Osprey - mid** | **tPCB-med** | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Cobalt** | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Osprey - high** | **tPCB-high** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| **Bat** | **tPCB** | 7E-02 | 2E-02 | 7E-02 | 2E-02 |
| | **Barium** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | **4E+00** | **4E+00** | **4E+00** | **4E+00** |
| | **Cobalt** | 6E-02 | 5E-02 | 6E-02 | 5E-02 |
| | **Lead** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Mercury** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| **Otter** | **tPCB-mink** | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| **Otter (Alternative TRV)** | **tPCB-mink** | **--** | **3E+00** | **--** | **3E+00** |
| | **Barium** | 8E-02 | 3E-02 | 8E-02 | 3E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 4E-02 | 3E-02 | 4E-02 | 3E-02 |
| | **Lead** | 1E-02 | 7E-03 | 1E-02 | 7E-03 |
| | **Mercury** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-99**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **1.83E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.55E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **1.83E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.83E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.55E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **1.83E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.83E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.55E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.83E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **1.83E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.55E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **1.83E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.55E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **1.83E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.55E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **1.83E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.55E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **1.83E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.55E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-99**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioacccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.58E-02 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.06E-02 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.61E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.13E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-01 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.58E-02 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.22E-01 | 5.22E-03 | 0.00E+00 | 1.35E-01 | 0.00E+00 | 3.91E-02 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 9.30E-03 | 4.84E-04 | 0.00E+00 | 4.58E-02 | 0.00E+00 | 3.34E-02 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.97E-01 | 1.24E-01 | 0.00E+00 | 2.84E-01 | 0.00E+00 | 3.94E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 9.55E-03 | 3.54E-03 | 0.00E+00 | 2.84E-01 | 0.00E+00 | 5.46E-01 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.30E-02 | 3.76E-03 | 0.00E+00 | 2.87E-01 | 0.00E+00 | 5.82E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.22E-01 | 5.22E-03 | 0.00E+00 | 1.35E-01 | 0.00E+00 | 3.91E-02 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.24E-02 | 3.40E-02 | 2.94E-01 | 6.07E-01 | 0.00E+00 | 6.23E-02 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.71E-03 | 3.15E-03 | 9.95E-02 | 2.06E-01 | 0.00E+00 | 5.32E-02 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.63E-02 | 8.09E-01 | 6.17E-01 | 1.28E+00 | 0.00E+00 | 6.28E-01 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.76E-03 | 2.30E-02 | 6.17E-01 | 1.27E+00 | 0.00E+00 | 8.70E-01 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 4.24E-03 | 2.45E-02 | 6.23E-01 | 1.29E+00 | 0.00E+00 | 9.28E-01 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.24E-02 | 3.40E-02 | 2.94E-01 | 6.07E-01 | 0.00E+00 | 6.23E-02 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.57E-02 | 1.01E-02 | 3.80E-01 | 2.62E-01 | 0.00E+00 | 7.00E-03 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.20E-03 | 9.38E-04 | 1.29E-01 | 8.87E-02 | 0.00E+00 | 5.98E-03 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.54E-02 | 2.41E-01 | 7.98E-01 | 5.50E-01 | 0.00E+00 | 7.06E-02 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.23E-03 | 6.85E-03 | 7.98E-01 | 5.50E-01 | 0.00E+00 | 9.78E-02 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.96E-03 | 7.28E-03 | 8.06E-01 | 5.56E-01 | 0.00E+00 | 1.04E-01 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.35E-04 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.14E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.57E-04 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.42E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.39E-03 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.17E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.47E-03 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.83E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.97E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.71E-01 | 4.66E-03 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.13E-03 | 3.98E-03 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 4.70E-02 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-01 | 6.51E-02 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 6.94E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.58E-03 | 0.00E+00 | 1.22E-02 | 0.00E+00 | 8.60E-02 | 1.94E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.02E-04 | 0.00E+00 | 4.12E-03 | 0.00E+00 | 3.59E-03 | 1.65E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.06E-02 | 0.00E+00 | 2.56E-02 | 0.00E+00 | 1.65E-01 | 1.95E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.15E-04 | 0.00E+00 | 2.56E-02 | 0.00E+00 | 7.45E-02 | 2.70E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.24E-03 | 0.00E+00 | 2.58E-02 | 0.00E+00 | 1.87E-01 | 2.88E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.93E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 1.94E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.48E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.32E-03 | 1.65E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.13E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-01 | 1.95E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.52E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.96E-02 | 2.70E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.66E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.88E-02 | 1.45E-03 |

**Table E3-99**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 1.80E-01 | 1.80E-01 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | 4.16E-02 | 4.17E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Chromium** | 5.95E-01 | 5.97E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 5.12E-01 | 5.20E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 5.61E-01 | 5.63E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.80E-01 | 1.80E-01 | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Blue Jay - mid** | **tPCB-med** | 3.01E-01 | 3.01E-01 | 4.67E-01 | 1.40E+00 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Mercury** | 8.90E-02 | 8.90E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Chromium** | 9.99E-01 | 1.00E+00 | 2.66E+00 | 2.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 8.43E-01 | 8.52E-01 | 1.63E+00 | 3.26E+00 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 8.96E-01 | 8.98E-01 | 3.44E-01 | 7.00E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | 3.01E-01 | 3.01E-01 | 4.33E-02 | 1.30E-01 | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 1.02E+00 | 1.02E+00 | 4.67E-01 | 1.40E+00 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 3.63E-01 | 3.63E-01 | 2.27E-02 | 6.80E-02 | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Chromium** | 3.37E+00 | 3.37E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | 2.79E+00 | 2.80E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Vanadium** | 2.87E+00 | 2.87E+00 | 3.44E-01 | 7.00E-01 | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 1.02E+00 | 1.02E+00 | 4.33E-02 | 1.30E-01 | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Shrew - 1** | **tPCB** | 6.74E-01 | 6.75E-01 | 2.30E-01 | 6.80E-01 | **3E+00** | 1E+00 | **3E+00** | 1E+00 |
| | **Mercury** | 2.26E-01 | 2.26E-01 | 7.50E-02 | 1.50E-01 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Chromium** | 1.68E+00 | 1.69E+00 | 2.40E+00 | 2.82E+00 | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Lead** | 1.45E+00 | 1.46E+00 | 4.70E+00 | 8.90E+00 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 1.48E+00 | 1.48E+00 | 4.16E+00 | 8.31E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Deer** | **tPCB** | 1.55E-02 | 1.55E-02 | 2.30E-01 | 6.80E-01 | 7E-02 | 2E-02 | 7E-02 | 2E-02 |
| | **Mercury** | 1.60E-03 | 1.63E-03 | 7.50E-02 | 1.50E-01 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Chromium** | 2.96E-02 | 3.08E-02 | 2.40E+00 | 2.82E+00 | 1E-02 | 1E-02 | 1E-02 | 1E-02 |
| | **Lead** | 8.65E-03 | 1.31E-02 | 4.70E+00 | 8.90E+00 | 2E-03 | 1E-03 | 3E-03 | 1E-03 |
| | **Vanadium** | 1.08E-02 | 1.19E-02 | 4.16E+00 | 8.31E+00 | 3E-03 | 1E-03 | 3E-03 | 1E-03 |
| **Weasel** | **tPCB** | 1.75E-01 | 1.75E-01 | 2.30E-01 | 6.80E-01 | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| | **Mercury** | 1.11E-02 | 1.12E-02 | 7.50E-02 | 1.50E-01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 3.74E-01 | 3.75E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 2.13E-01 | 2.20E-01 | 4.70E+00 | 8.90E+00 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Vanadium** | 4.40E-01 | 4.42E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 1.07E-01 | 1.07E-01 | 2.30E-01 | 6.80E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 9.87E-03 | 9.91E-03 | 7.50E-02 | 1.50E-01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 2.20E-01 | 2.22E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Lead** | 1.28E-01 | 1.33E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Vanadium** | 2.43E-01 | 2.44E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 1.07E-01 | 1.07E-01 | 2.30E-01 | 6.80E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 6.12E-03 | 6.16E-03 | 7.50E-02 | 1.50E-01 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Chromium** | 2.21E-01 | 2.22E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Lead** | 1.17E-01 | 1.23E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Vanadium** | 2.54E-01 | 2.55E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-100**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **2.72E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.43E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **2.72E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **2.72E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.43E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **2.72E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **2.72E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.43E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **2.72E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **2.72E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.43E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **2.72E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.43E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **2.72E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.43E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **2.72E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.43E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **2.72E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 1.84E-02 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.43E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-100**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.07E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.34E-02 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.94E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.40E-02 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.34E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.81E-01 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.29E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.07E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.34E-02 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.75E-01 | 7.79E-03 | 0.00E+00 | 2.06E-01 | 0.00E+00 | 5.83E-02 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.64E-02 | 8.54E-04 | 0.00E+00 | 7.19E-02 | 0.00E+00 | 5.89E-02 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.07E-01 | 1.24E-01 | 0.00E+00 | 1.54E-01 | 0.00E+00 | 2.14E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.36E-03 | 1.98E-03 | 0.00E+00 | 1.59E-01 | 0.00E+00 | 3.06E-01 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.09E-02 | 1.78E-03 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 2.76E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.75E-01 | 7.79E-03 | 0.00E+00 | 2.06E-01 | 0.00E+00 | 5.83E-02 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.21E-02 | 5.08E-02 | 4.48E-01 | 9.26E-01 | 0.00E+00 | 9.29E-02 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.02E-03 | 5.57E-03 | 1.56E-01 | 3.23E-01 | 0.00E+00 | 9.39E-02 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.97E-02 | 8.09E-01 | 3.35E-01 | 6.93E-01 | 0.00E+00 | 3.41E-01 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.85E-04 | 1.29E-02 | 3.46E-01 | 7.15E-01 | 0.00E+00 | 4.88E-01 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.01E-03 | 1.16E-02 | 2.96E-01 | 6.11E-01 | 0.00E+00 | 4.40E-01 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.21E-02 | 5.08E-02 | 4.48E-01 | 9.26E-01 | 0.00E+00 | 9.29E-02 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.25E-02 | 1.51E-02 | 5.79E-01 | 3.99E-01 | 0.00E+00 | 1.04E-02 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.11E-03 | 1.65E-03 | 2.02E-01 | 1.39E-01 | 0.00E+00 | 1.06E-02 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.38E-02 | 2.41E-01 | 4.34E-01 | 2.99E-01 | 0.00E+00 | 3.83E-02 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.89E-04 | 3.84E-03 | 4.47E-01 | 3.08E-01 | 0.00E+00 | 5.48E-02 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.40E-03 | 3.45E-03 | 3.82E-01 | 2.64E-01 | 0.00E+00 | 4.95E-02 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.98E-04 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.02E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.07E-04 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.32E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-03 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.58E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.19E-03 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.34E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.12E-01 | 6.95E-03 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-02 | 7.02E-03 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-01 | 2.55E-02 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.29E-02 | 3.65E-02 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 3.29E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 9.43E-03 | 0.00E+00 | 1.86E-02 | 0.00E+00 | 1.07E-01 | 2.89E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.86E-04 | 0.00E+00 | 6.48E-03 | 0.00E+00 | 6.34E-03 | 2.92E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.79E-03 | 0.00E+00 | 1.39E-02 | 0.00E+00 | 8.94E-02 | 1.06E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.89E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 4.18E-02 | 1.52E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.90E-04 | 0.00E+00 | 1.22E-02 | 0.00E+00 | 1.87E-01 | 1.37E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.77E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 2.89E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.61E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-03 | 2.92E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.70E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-01 | 1.06E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.50E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.03E-02 | 1.52E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.73E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 1.37E-02 | 1.45E-03 |

**Table E3-100**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 2.60E-01 | 2.60E-01 | 4.67E-01 | 1.40E+00 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Mercury** | 7.34E-02 | 7.35E-02 | 2.27E-02 | 6.80E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Chromium** | 3.23E-01 | 3.25E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 2.87E-01 | 2.95E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Vanadium** | 2.66E-01 | 2.68E-01 | 3.44E-01 | 7.00E-01 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| **Mourning Dove - high** | **tPCB-high** | 2.60E-01 | 2.60E-01 | 4.33E-02 | 1.30E-01 | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| **Blue Jay - mid** | **tPCB-med** | 4.47E-01 | 4.47E-01 | 4.67E-01 | 1.40E+00 | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Mercury** | 1.48E-01 | 1.48E-01 | 2.27E-02 | 6.80E-02 | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Chromium** | 6.00E-01 | 6.02E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 4.73E-01 | 4.81E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 4.25E-01 | 4.27E-01 | 3.44E-01 | 7.00E-01 | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **Blue Jay - high** | **tPCB-high** | 4.47E-01 | 4.47E-01 | 4.33E-02 | 1.30E-01 | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 1.55E+00 | 1.55E+00 | 4.67E-01 | 1.40E+00 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | 5.82E-01 | 5.82E-01 | 2.27E-02 | 6.80E-02 | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| | **Chromium** | 2.20E+00 | 2.20E+00 | 2.66E+00 | 2.80E+00 | 8E-01 | 8E-01 | 8E-01 | 8E-01 |
| | **Lead** | 1.56E+00 | 1.58E+00 | 1.63E+00 | 3.26E+00 | 1E+00 | 5E-01 | 1E+00 | 5E-01 |
| | **Vanadium** | 1.36E+00 | 1.37E+00 | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 1.55E+00 | 1.55E+00 | 4.33E-02 | 1.30E-01 | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Shrew - 1** | **tPCB** | 1.03E+00 | 1.03E+00 | 2.30E-01 | 6.80E-01 | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Mercury** | 3.56E-01 | 3.56E-01 | 7.50E-02 | 1.50E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Chromium** | 1.03E+00 | 1.03E+00 | 2.40E+00 | 2.82E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 8.15E-01 | 8.25E-01 | 4.70E+00 | 8.90E+00 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Vanadium** | 7.00E-01 | 7.03E-01 | 4.16E+00 | 8.31E+00 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| **Deer** | **tPCB** | 2.23E-02 | 2.23E-02 | 2.30E-01 | 6.80E-01 | 1E-01 | 3E-02 | 1E-01 | 3E-02 |
| | **Mercury** | 2.82E-03 | 2.85E-03 | 7.50E-02 | 1.50E-01 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 1.61E-02 | 1.73E-02 | 2.40E+00 | 2.82E+00 | 7E-03 | 6E-03 | 7E-03 | 6E-03 |
| | **Lead** | 4.85E-03 | 9.29E-03 | 4.70E+00 | 8.90E+00 | 1E-03 | 5E-04 | 2E-03 | 1E-03 |
| | **Vanadium** | 5.12E-03 | 6.25E-03 | 4.16E+00 | 8.31E+00 | 1E-03 | 6E-04 | 2E-03 | 8E-04 |
| **Weasel** | **tPCB** | 2.19E-01 | 2.19E-01 | 2.30E-01 | 6.80E-01 | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Mercury** | 1.96E-02 | 1.96E-02 | 7.50E-02 | 1.50E-01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 2.03E-01 | 2.05E-01 | 2.40E+00 | 2.82E+00 | 8E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Lead** | 1.19E-01 | 1.27E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Vanadium** | 4.04E-01 | 4.06E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 1.38E-01 | 1.38E-01 | 2.30E-01 | 6.80E-01 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Mercury** | 1.66E-02 | 1.67E-02 | 7.50E-02 | 1.50E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 1.20E-01 | 1.21E-01 | 2.40E+00 | 2.82E+00 | 5E-02 | 4E-02 | 5E-02 | 4E-02 |
| | **Lead** | 7.16E-02 | 7.73E-02 | 4.70E+00 | 8.90E+00 | 2E-02 | 8E-03 | 2E-02 | 9E-03 |
| | **Vanadium** | 2.13E-01 | 2.15E-01 | 4.16E+00 | 8.31E+00 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 1.34E-01 | 1.34E-01 | 2.30E-01 | 6.80E-01 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Mercury** | 1.08E-02 | 1.08E-02 | 7.50E-02 | 1.50E-01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 1.20E-01 | 1.21E-01 | 2.40E+00 | 2.82E+00 | 5E-02 | 4E-02 | 5E-02 | 4E-02 |
| | **Lead** | 6.55E-02 | 7.12E-02 | 4.70E+00 | 8.90E+00 | 1E-02 | 7E-03 | 2E-02 | 8E-03 |
| | **Vanadium** | 2.39E-01 | 2.40E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-101**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.83E+00** | **1.68E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.56E+00** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.72E+01** | **4.31E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.83E+00** | **1.68E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.83E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.56E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.72E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.83E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.83E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.56E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.72E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **1.83E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.56E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.72E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |

**Table E3-101**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-101**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-101**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-101**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 6.27E+01 | 2.49E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 6.27E+01 | 2.49E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 6.27E+01 | 2.49E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 6.27E+01 | 2.49E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 6.27E+01 | 2.49E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 6.27E+01 | 2.49E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-101**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| Carolina Wren - 2 - mid | tPCB-med | 1.54E-03 | 0.00E+00 | 0.00E+00 | 2.94E-01 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 1.79E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 8.12E+00 | 0.00E+00 | 0.00E+00 | 2.24E+00 | 0.00E+00 | 3.22E-01 | 0.00E+00 | 1.55E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 3.38E-01 | 0.00E+00 | 0.00E+00 | 6.17E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 3.79E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.23E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 2.22E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 7.90E-01 | 0.00E+00 | 0.00E+00 | 6.17E-01 | 0.00E+00 | 2.30E-02 | 0.00E+00 | 3.55E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 1.24E-03 | 0.00E+00 | 0.00E+00 | 9.95E-02 | 0.00E+00 | 3.15E-03 | 0.00E+00 | 1.32E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 3.11E-01 | 0.00E+00 | 0.00E+00 | 6.23E-01 | 0.00E+00 | 2.45E-02 | 0.00E+00 | 2.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Carolina wren - 2 - high | tPCB-high | 1.54E-03 | 0.00E+00 | 0.00E+00 | 2.94E-01 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 1.79E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hawk - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.84E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.37E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hawk - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 0.00E+00 | 1.21E-02 | 0.00E+00 | 2.15E-02 | 0.00E+00 | 8.33E-04 | 2.15E-02 | 0.00E+00 | 4.09E-03 | 0.00E+00 | 0.00E+00 | 8.04E-04 | 2.35E-03 | 0.00E+00 |
| | Barium | 0.00E+00 | 7.70E-01 | 0.00E+00 | 1.64E-01 | 0.00E+00 | 7.87E-03 | 1.64E-01 | 0.00E+00 | 2.24E-02 | 0.00E+00 | 0.00E+00 | 4.97E+00 | 4.38E-02 | 0.00E+00 |
| | Chromium | 0.00E+00 | 1.95E-02 | 0.00E+00 | 4.53E-02 | 0.00E+00 | 1.98E-02 | 4.53E-02 | 0.00E+00 | 7.82E-03 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 5.64E-03 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 4.77E-03 | 0.00E+00 | 1.63E-02 | 0.00E+00 | 4.95E-02 | 1.63E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.50E-03 | 0.00E+00 |
| | Lead | 0.00E+00 | 9.45E-04 | 0.00E+00 | 4.53E-02 | 0.00E+00 | 5.64E-04 | 4.53E-02 | 0.00E+00 | 3.54E-03 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 1.07E-03 | 0.00E+00 |
| | Mercury | 0.00E+00 | 9.21E-04 | 0.00E+00 | 7.30E-03 | 0.00E+00 | 7.72E-05 | 7.30E-03 | 0.00E+00 | 1.71E-04 | 0.00E+00 | 0.00E+00 | 6.25E-04 | 2.26E-04 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 2.28E-03 | 0.00E+00 | 4.57E-02 | 0.00E+00 | 5.99E-04 | 4.57E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 2.82E-02 | 1.24E-03 | 0.00E+00 |
| Shrew - 2 | tPCB | 0.00E+00 | 2.22E-02 | 0.00E+00 | 4.21E-01 | 0.00E+00 | 6.94E-03 | 1.80E-01 | 0.00E+00 | 1.84E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 1.42E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 6.56E-02 | 1.37E+00 | 0.00E+00 | 1.01E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 3.59E-02 | 0.00E+00 | 8.85E-01 | 0.00E+00 | 1.65E-01 | 3.78E-01 | 0.00E+00 | 3.52E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 8.77E-03 | 0.00E+00 | 3.19E-01 | 0.00E+00 | 4.13E-01 | 1.36E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 1.74E-03 | 0.00E+00 | 8.84E-01 | 0.00E+00 | 4.70E-03 | 3.77E-01 | 0.00E+00 | 1.59E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 1.69E-03 | 0.00E+00 | 1.43E-01 | 0.00E+00 | 6.43E-04 | 6.09E-02 | 0.00E+00 | 7.67E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 4.20E-03 | 0.00E+00 | 8.94E-01 | 0.00E+00 | 4.99E-03 | 3.81E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-101**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.23E-02 | 0.00E+00 | 4.23E-05 | 3.90E-01 | 1.95E-02 | 4.09E-01 | 4.10E-01 | 4.67E-01 | 1.40E+00 | 8E-01 | 3E-01 | 4E-02 | 1E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E+00 | 0.00E+00 | 3.27E-02 | 5.12E+00 | 2.36E+01 | 2.88E+01 | 2.88E+01 | 2.08E+01 | 4.17E+01 | 2E-01 | 1E-01 | **1E+00** | 6E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.28E-01 | 0.00E+00 | 4.86E-03 | 2.05E+00 | 4.13E+00 | 6.18E+00 | 6.19E+00 | 2.66E+00 | 2.80E+00 | 8E-01 | 7E-01 | **2E+00** | **1E+00** |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.42E-01 | 0.00E+00 | 3.29E-03 | 2.49E+00 | 2.99E+00 | 5.47E+00 | 5.48E+00 | 7.61E+00 | 7.80E+00 | 3E-01 | 3E-01 | 4E-01 | 4E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 1.82E-02 | 1.51E+00 | 4.34E+00 | 5.85E+00 | 5.87E+00 | 1.63E+00 | 3.26E+00 | 9E-01 | 5E-01 | **3E+00** | **1E+00** |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.32E-02 | 0.00E+00 | 1.16E-04 | 1.56E-01 | 1.34E-01 | 2.90E-01 | 2.90E-01 | 2.27E-02 | 6.80E-02 | **7E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.28E-01 | 0.00E+00 | 4.62E-03 | 1.58E+00 | 2.35E+00 | 3.93E+00 | 3.93E+00 | 3.44E-01 | 7.00E-01 | **5E+00** | **2E+00** | **7E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.23E-02 | 0.00E+00 | 4.23E-05 | 3.90E-01 | 1.95E-02 | 4.09E-01 | 4.10E-01 | 4.33E-02 | 1.30E-01 | **9E+00** | **3E+00** | 4E-01 | 1E-01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 1.10E-01 | 0.00E+00 | 8.34E-03 | 7.68E-04 | 8.93E-06 | 2.09E-01 | 1.11E-01 | 3.19E-01 | 3.19E-01 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | 2E-01 | 8E-02 |
| | **Barium** | 0.00E+00 | 6.94E-01 | 0.00E+00 | 3.42E-01 | 1.15E+00 | 6.90E-03 | 1.44E+00 | 1.84E+00 | 3.28E+00 | 3.29E+00 | 2.08E+01 | 4.17E+01 | 7E-02 | 3E-02 | 9E-02 | 4E-02 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 8.41E-02 | 2.50E-01 | 1.03E-03 | 4.68E-01 | 3.44E-01 | 8.12E-01 | 8.13E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 3.24E-02 | 1.57E-01 | 6.95E-04 | 1.12E+00 | 3.92E-01 | 1.51E+00 | 1.51E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 5E-02 | 5E-02 |
| | **Lead** | 0.00E+00 | 6.59E-02 | 0.00E+00 | 1.17E-01 | 3.24E-01 | 3.84E-03 | 2.90E-01 | 3.90E-01 | 6.80E-01 | 6.84E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 9E-02 | 2E-01 | 1E-01 |
| | **Mercury** | 0.00E+00 | 1.12E-02 | 0.00E+00 | 7.13E-03 | 3.72E-03 | 2.45E-05 | 1.55E-02 | 1.49E-02 | 3.04E-02 | 3.04E-02 | 2.27E-02 | 6.80E-02 | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.24E-01 | 1.97E-01 | 9.75E-04 | 5.60E-01 | 2.91E-01 | 8.51E-01 | 8.52E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 8E-01 | 4E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 1.10E-01 | 0.00E+00 | 8.34E-03 | 7.68E-04 | 8.93E-06 | 2.09E-01 | 1.11E-01 | 3.19E-01 | 3.19E-01 | 4.33E-02 | 1.30E-01 | **5E+00** | **2E+00** | **3E+00** | 9E-01 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 5.65E-03 | 3.37E-04 | 4.60E-03 | 0.00E+00 | 1.30E-05 | 6.47E-02 | 9.15E-03 | 7.38E-02 | 7.38E-02 | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | 4E-02 | 1E-02 |
| | **Barium** | 0.00E+00 | 3.58E-02 | 2.37E-01 | 1.89E-01 | 0.00E+00 | 1.00E-02 | 1.32E+00 | 5.29E+00 | 6.60E+00 | 6.61E+00 | 5.18E+01 | 1.21E+02 | 3E-02 | 1E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 4.87E-02 | 4.64E-02 | 0.00E+00 | 1.49E-03 | 1.84E-01 | 7.37E-02 | 2.58E-01 | 2.59E-01 | 2.40E+00 | 2.82E+00 | 8E-02 | 7E-02 | 3E-02 | 3E-02 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 1.08E-02 | 1.79E-02 | 0.00E+00 | 1.01E-03 | 1.27E-01 | 9.41E-02 | 2.21E-01 | 2.22E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 9E-03 |
| | **Lead** | 0.00E+00 | 3.39E-03 | 2.25E-02 | 6.43E-02 | 0.00E+00 | 5.59E-03 | 1.60E-01 | 5.90E-02 | 2.19E-01 | 2.24E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 2E-02 | 1E-02 | 7E-03 |
| | **Mercury** | 0.00E+00 | 5.76E-04 | 4.20E-04 | 3.93E-03 | 0.00E+00 | 3.57E-05 | 1.97E-02 | 1.85E-03 | 2.16E-02 | 2.16E-02 | 7.50E-02 | 1.50E-01 | 3E-01 | 1E-01 | 2E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 6.26E-03 | 6.86E-02 | 0.00E+00 | 1.42E-03 | 1.72E-01 | 4.05E-02 | 2.12E-01 | 2.14E-01 | 4.16E+00 | 8.31E+00 | 4E-02 | 2E-02 | 1E-02 | 5E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 1.35E-02 | 5.36E-04 | 7.00E-03 | 6.44E-04 | 2.35E-05 | 6.55E-01 | 1.46E-02 | 6.70E-01 | 6.70E-01 | 2.30E-01 | 6.80E-01 | **3E+00** | 1E+00 | 6E-02 | 2E-02 |
| | **Barium** | 0.00E+00 | 8.52E-02 | 3.77E-01 | 2.87E-01 | 9.62E-01 | 1.82E-02 | 6.45E+00 | 1.42E+00 | 7.88E+00 | 7.90E+00 | 5.18E+01 | 1.21E+02 | 1E-01 | 5E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 7.73E-02 | 7.06E-02 | 2.10E-01 | 2.70E-03 | 1.57E+00 | 2.99E-01 | 1.87E+00 | 1.87E+00 | 2.40E+00 | 2.82E+00 | 7E-01 | 6E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 1.71E-02 | 2.72E-02 | 1.32E-01 | 1.83E-03 | 1.00E+00 | 1.77E-01 | 1.18E+00 | 1.18E+00 | 7.33E+00 | 1.00E+01 | 1E-01 | 1E-01 | 2E-02 | 2E-02 |
| | **Lead** | 0.00E+00 | 8.08E-03 | 3.57E-02 | 9.78E-02 | 2.72E-01 | 1.01E-02 | 1.38E+00 | 3.16E-01 | 1.70E+00 | 1.71E+00 | 4.70E+00 | 8.90E+00 | 3E-01 | 2E-01 | 7E-02 | 4E-02 |
| | **Mercury** | 0.00E+00 | 1.37E-03 | 6.67E-04 | 5.98E-03 | 3.13E-03 | 6.45E-05 | 2.13E-01 | 5.17E-03 | 2.18E-01 | 2.18E-01 | 7.50E-02 | 1.50E-01 | **3E+00** | **1E+00** | 7E-02 | 3E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 9.94E-03 | 1.04E-01 | 1.65E-01 | 2.57E-03 | 1.43E+00 | 1.87E-01 | 1.62E+00 | 1.62E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 2E-01 | 4E-02 | 2E-02 |

**Table E3-101**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Barium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Lead** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Mercury** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Vanadium** | **1E+01** | **6E+00** | **1E+01** | **6E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| **Hawk - mid** | **tPCB-med** | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Barium** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Hawk - high** | **tPCB-high** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| **Raccoon - 1** | **tPCB** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Barium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 5E-02 | 2E-02 | 5E-02 | 3E-02 |
| | **Mercury** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Shrew - 2** | **tPCB** | **3E+00** | 1E+00 | **3E+00** | 1E+00 |
| | **Barium** | 2E-01 | 7E-02 | 2E-01 | 7E-02 |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-102**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **2.72E+00** | **1.68E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.54E+01** | **2.51E+02** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.00E+01** | **5.47E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **5.20E+00** | **3.43E+01** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.43E+01** | **7.10E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.75E+00** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.29E+01** | **4.31E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **2.72E+00** | **1.68E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **2.72E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **8.54E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **1.00E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **5.20E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **1.43E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **2.75E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **1.29E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **2.72E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **2.72E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **8.54E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **1.00E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **5.20E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **1.43E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **2.75E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **1.29E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **2.72E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **8.54E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **1.00E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **5.20E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **1.43E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **2.75E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **1.29E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-102**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-102**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-102**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-102**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 6.27E+01 | 2.49E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 6.27E+01 | 2.49E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 6.27E+01 | 2.49E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 6.27E+01 | 2.49E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 6.27E+01 | 2.49E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 6.27E+01 | 2.49E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-102**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.54E-03 | 0.00E+00 | 0.00E+00 | 4.48E-01 | 0.00E+00 | 5.08E-02 | 0.00E+00 | 1.79E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 8.12E+00 | 0.00E+00 | 0.00E+00 | 2.55E+00 | 0.00E+00 | 3.67E-01 | 0.00E+00 | 1.55E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 3.38E-01 | 0.00E+00 | 0.00E+00 | 3.35E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 3.79E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 1.63E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 2.22E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 7.90E-01 | 0.00E+00 | 0.00E+00 | 3.46E-01 | 0.00E+00 | 1.29E-02 | 0.00E+00 | 3.55E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.24E-03 | 0.00E+00 | 0.00E+00 | 1.56E-01 | 0.00E+00 | 5.57E-03 | 0.00E+00 | 1.32E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 3.11E-01 | 0.00E+00 | 0.00E+00 | 2.96E-01 | 0.00E+00 | 1.16E-02 | 0.00E+00 | 2.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.54E-03 | 0.00E+00 | 0.00E+00 | 4.48E-01 | 0.00E+00 | 5.08E-02 | 0.00E+00 | 1.79E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.09E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.74E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.73E-02 | 0.00E+00 | 3.29E-02 | 0.00E+00 | 1.24E-03 | 3.29E-02 | 0.00E+00 | 5.08E-03 | 0.00E+00 | 0.00E+00 | 8.04E-04 | 2.35E-03 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 8.77E-01 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 8.98E-03 | 1.87E-01 | 0.00E+00 | 2.56E-02 | 0.00E+00 | 0.00E+00 | 4.97E+00 | 4.38E-02 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 1.06E-02 | 0.00E+00 | 2.46E-02 | 0.00E+00 | 1.98E-02 | 2.46E-02 | 0.00E+00 | 4.25E-03 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 5.64E-03 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 3.49E-03 | 0.00E+00 | 1.20E-02 | 0.00E+00 | 4.95E-02 | 1.20E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.50E-03 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 5.30E-04 | 0.00E+00 | 2.54E-02 | 0.00E+00 | 3.16E-04 | 2.54E-02 | 0.00E+00 | 1.99E-03 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 1.07E-03 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.62E-03 | 0.00E+00 | 1.15E-02 | 0.00E+00 | 1.36E-04 | 1.15E-02 | 0.00E+00 | 3.01E-04 | 0.00E+00 | 0.00E+00 | 6.25E-04 | 2.26E-04 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.08E-03 | 0.00E+00 | 2.17E-02 | 0.00E+00 | 2.84E-04 | 2.17E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 2.82E-02 | 1.24E-03 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 3.18E-02 | 0.00E+00 | 6.42E-01 | 0.00E+00 | 1.04E-02 | 2.74E-01 | 0.00E+00 | 2.29E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 1.62E+00 | 0.00E+00 | 3.66E+00 | 0.00E+00 | 7.48E-02 | 1.56E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 1.95E-02 | 0.00E+00 | 4.81E-01 | 0.00E+00 | 1.65E-01 | 2.05E-01 | 0.00E+00 | 1.91E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 6.43E-03 | 0.00E+00 | 2.34E-01 | 0.00E+00 | 4.13E-01 | 9.98E-02 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 9.76E-04 | 0.00E+00 | 4.96E-01 | 0.00E+00 | 2.64E-03 | 2.12E-01 | 0.00E+00 | 8.93E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 2.99E-03 | 0.00E+00 | 2.24E-01 | 0.00E+00 | 1.13E-03 | 9.56E-02 | 0.00E+00 | 1.35E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.99E-03 | 0.00E+00 | 4.24E-01 | 0.00E+00 | 2.37E-03 | 1.81E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-102**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.29E-02 | 0.00E+00 | 4.23E-05 | 5.92E-01 | 1.95E-02 | 6.11E-01 | 6.11E-01 | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | 4E-02 | 1E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.91E+00 | 0.00E+00 | 3.27E-02 | 5.84E+00 | 2.36E+01 | 2.95E+01 | 2.95E+01 | 2.08E+01 | 4.17E+01 | 3E-01 | 1E-01 | **1E+00** | 6E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.41E-01 | 0.00E+00 | 4.86E-03 | 1.49E+00 | 4.13E+00 | 5.62E+00 | 5.62E+00 | 2.66E+00 | 2.80E+00 | 6E-01 | 5E-01 | **2E+00** | **1E+00** |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-01 | 0.00E+00 | 3.29E-03 | 2.36E+00 | 2.99E+00 | 5.35E+00 | 5.35E+00 | 7.61E+00 | 7.80E+00 | 3E-01 | 3E-01 | 4E-01 | 4E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.88E-01 | 0.00E+00 | 1.82E-02 | 8.47E-01 | 4.34E+00 | 5.19E+00 | 5.20E+00 | 1.63E+00 | 3.26E+00 | 5E-01 | 3E-01 | **3E+00** | **1E+00** |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.16E-04 | 2.56E-01 | 1.34E-01 | 3.89E-01 | 3.90E-01 | 2.27E-02 | 6.80E-02 | **1E+01** | **4E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 4.62E-03 | 7.47E-01 | 2.35E+00 | 3.10E+00 | 3.11E+00 | 3.44E-01 | 7.00E-01 | **2E+00** | **1E+00** | **7E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.29E-02 | 0.00E+00 | 4.23E-05 | 5.92E-01 | 1.95E-02 | 6.11E-01 | 6.11E-01 | 4.33E-02 | 1.30E-01 | **1E+01** | **5E+00** | 4E-01 | 1E-01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.24E-02 | 7.68E-04 | 8.93E-06 | 2.62E-01 | 1.11E-01 | 3.72E-01 | 3.72E-01 | 4.67E-01 | 1.40E+00 | 6E-01 | 2E-01 | 2E-01 | 8E-02 |
| | **Barium** | 0.00E+00 | 6.94E-01 | 0.00E+00 | 3.90E-01 | 1.15E+00 | 6.90E-03 | 1.64E+00 | 1.84E+00 | 3.49E+00 | 3.49E+00 | 2.08E+01 | 4.17E+01 | 8E-02 | 4E-02 | 9E-02 | 4E-02 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 4.57E-02 | 2.50E-01 | 1.03E-03 | 2.54E-01 | 3.44E-01 | 5.98E-01 | 5.99E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 9E-02 | 1E-01 | 1E-01 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 2.38E-02 | 1.57E-01 | 6.95E-04 | 1.11E+00 | 3.92E-01 | 1.50E+00 | 1.51E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 5E-02 | 5E-02 |
| | **Lead** | 0.00E+00 | 6.59E-02 | 0.00E+00 | 6.53E-02 | 3.24E-01 | 3.84E-03 | 1.63E-01 | 3.90E-01 | 5.53E-01 | 5.57E-01 | 1.63E+00 | 3.26E+00 | 1E-01 | 5E-02 | 2E-01 | 1E-01 |
| | **Mercury** | 0.00E+00 | 1.12E-02 | 0.00E+00 | 1.26E-02 | 3.72E-03 | 2.45E-05 | 2.73E-02 | 1.49E-02 | 4.23E-02 | 4.23E-02 | 2.27E-02 | 6.80E-02 | **1E+00** | 4E-01 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 5.89E-02 | 1.97E-01 | 9.75E-04 | 4.95E-01 | 2.91E-01 | 7.86E-01 | 7.87E-01 | 3.44E-01 | 7.00E-01 | **1E+00** | 7E-01 | 8E-01 | 4E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.24E-02 | 7.68E-04 | 8.93E-06 | 2.62E-01 | 1.11E-01 | 3.72E-01 | 3.72E-01 | 4.33E-02 | 1.30E-01 | **6E+00** | **2E+00** | **3E+00** | 9E-01 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 5.65E-03 | 3.37E-04 | 6.87E-03 | 0.00E+00 | 1.30E-05 | 9.62E-02 | 9.15E-03 | 1.05E-01 | 1.05E-01 | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 4E-02 | 1E-02 |
| | **Barium** | 0.00E+00 | 3.58E-02 | 2.37E-01 | 2.15E-01 | 0.00E+00 | 1.00E-02 | 1.50E+00 | 5.29E+00 | 6.79E+00 | 6.80E+00 | 5.18E+01 | 1.21E+02 | 3E-02 | 1E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 4.87E-02 | 2.52E-02 | 0.00E+00 | 1.49E-03 | 1.09E-01 | 7.37E-02 | 1.83E-01 | 1.84E-01 | 2.40E+00 | 2.82E+00 | 5E-02 | 4E-02 | 3E-02 | 3E-02 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 1.08E-02 | 1.31E-02 | 0.00E+00 | 1.01E-03 | 1.12E-01 | 9.41E-02 | 2.06E-01 | 2.07E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 9E-03 |
| | **Lead** | 0.00E+00 | 3.39E-03 | 2.25E-02 | 3.61E-02 | 0.00E+00 | 5.59E-03 | 8.97E-02 | 5.90E-02 | 1.49E-01 | 1.54E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 1E-02 | 7E-03 |
| | **Mercury** | 0.00E+00 | 5.76E-04 | 4.20E-04 | 6.94E-03 | 0.00E+00 | 3.57E-05 | 3.19E-02 | 1.85E-03 | 3.38E-02 | 3.38E-02 | 7.50E-02 | 1.50E-01 | 4E-01 | 2E-01 | 2E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 6.26E-03 | 3.25E-02 | 0.00E+00 | 1.42E-03 | 8.62E-02 | 4.05E-02 | 1.27E-01 | 1.28E-01 | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 1E-02 | 5E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 1.35E-02 | 5.36E-04 | 1.04E-02 | 6.44E-04 | 2.35E-05 | 9.91E-01 | 1.46E-02 | 1.01E+00 | 1.01E+00 | 2.30E-01 | 6.80E-01 | **4E+00** | **1E+00** | 6E-02 | 2E-02 |
| | **Barium** | 0.00E+00 | 8.52E-02 | 3.77E-01 | 3.27E-01 | 9.62E-01 | 1.82E-02 | 7.36E+00 | 1.42E+00 | 8.78E+00 | 8.80E+00 | 5.18E+01 | 1.21E+02 | 1E-01 | 6E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 7.73E-02 | 3.83E-02 | 2.10E-01 | 2.70E-03 | 9.28E-01 | 2.99E-01 | 1.23E+00 | 1.23E+00 | 2.40E+00 | 2.82E+00 | 4E-01 | 3E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 1.71E-02 | 1.99E-02 | 1.32E-01 | 1.83E-03 | 8.73E-01 | 1.77E-01 | 1.05E+00 | 1.05E+00 | 7.33E+00 | 1.00E+01 | 1E-01 | 9E-02 | 2E-02 | 2E-02 |
| | **Lead** | 0.00E+00 | 8.08E-03 | 3.57E-02 | 5.48E-02 | 2.72E-01 | 1.01E-02 | 7.75E-01 | 3.16E-01 | 1.09E+00 | 1.10E+00 | 4.70E+00 | 8.90E+00 | 2E-01 | 9E-02 | 7E-02 | 4E-02 |
| | **Mercury** | 0.00E+00 | 1.37E-03 | 6.67E-04 | 1.06E-02 | 3.13E-03 | 6.45E-05 | 3.36E-01 | 5.17E-03 | 3.41E-01 | 3.41E-01 | 7.50E-02 | 1.50E-01 | **4E+00** | **2E+00** | 7E-02 | 3E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 9.94E-03 | 4.95E-02 | 1.65E-01 | 2.57E-03 | 6.98E-01 | 1.87E-01 | 8.85E-01 | 8.88E-01 | 4.16E+00 | 8.31E+00 | 2E-01 | 8E-02 | 4E-02 | 2E-02 |

**Table E3-102**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Lead** | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Mercury** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Vanadium** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Hawk - mid** | **tPCB-med** | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| | **Barium** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Hawk - high** | **tPCB-high** | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| **Raccoon - 1** | **tPCB** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Barium** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 8E-02 | 6E-02 | 8E-02 | 7E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Mercury** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | 2E-01 | 7E-02 | 2E-01 | 7E-02 |
| | **Chromium** | 5E-01 | 4E-01 | 5E-01 | 4E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-103**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C6, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.33E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **1.33E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Vanadium** | **1.33E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 2** | **tPCB-mink** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Vanadium** | **1.33E+01** | **4.31E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Raccoon - 1** | **tPCB** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Vanadium** | **1.33E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| **Raccoon - 2** | **tPCB** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Vanadium** | **1.33E+01** | **4.31E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |

**Table E3-103**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C6, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| Spotted Sandpiper - 1 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| Spotted Sandpiper - 1 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| GBH - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| GBH - high | tPCB-high | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| Mink - 1 | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 2 | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| Raccoon - 2 | tPCB | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Barium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Chromium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Cobalt | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Lead | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Mercury | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Vanadium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table E3-103**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C6, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| **GBH - mid** | **tPCB-med** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **GBH - high** | **tPCB-high** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| **Mink - 1** | **tPCB-mink** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Mink - 2** | **tPCB-mink** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 1** | **tPCB** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 2** | **tPCB** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |

**Table E3-103**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C6, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | |
|---|---|---|---|---|---|
| | | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| **GBH - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **GBH - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| **Mink - 1** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Mink - 2** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 1** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 2** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |

**Table E3-103**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C6, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| **GBH - mid** | **tPCB-med** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **GBH - high** | **tPCB-high** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| **Mink - 1** | **tPCB-mink** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Mink - 2** | **tPCB-mink** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Raccoon - 1** | **tPCB** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Raccoon - 2** | **tPCB** | 1.37E+00 | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |

**Table E3-103**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C6, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 2.49E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.71E-02 | 1.03E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.04E+01 | 5.46E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.72E+00 | 1.50E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.80E+00 | 5.42E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.04E+00 | 1.50E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.64E-02 | 2.94E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.68E+00 | 7.42E-01 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 2.49E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.71E-02 | 1.03E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 2.49E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 2.49E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 2.49E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 2.49E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 2.49E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 2.49E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.83E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 7.62E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.78E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.79E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 7.02E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 2.49E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.66E-02 | 0.00E+00 | 3.11E-02 | 0.00E+00 | 1.18E-03 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.70E-01 | 0.00E+00 | 1.64E-01 | 0.00E+00 | 7.87E-03 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.95E-02 | 0.00E+00 | 4.53E-02 | 0.00E+00 | 1.98E-02 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.77E-03 | 0.00E+00 | 1.63E-02 | 0.00E+00 | 4.95E-02 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 9.45E-04 | 0.00E+00 | 4.53E-02 | 0.00E+00 | 5.64E-04 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.18E-03 | 0.00E+00 | 8.87E-03 | 0.00E+00 | 9.93E-05 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.11E-03 | 0.00E+00 | 2.24E-02 | 0.00E+00 | 2.93E-04 |
| **Raccoon - 2** | **tPCB** | 2.49E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.20E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.69E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 7.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.64E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 6.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-103**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C6, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 2.69E-03 | 2.66E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E+00 | 4.02E+00 | 2.06E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-01 | 8.76E-01 | 3.06E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-01 | 5.50E-01 | 2.07E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-01 | 1.14E+00 | 1.14E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-02 | 1.31E-02 | 7.31E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-01 | 6.91E-01 | 2.91E-03 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 2.69E-03 | 2.66E-05 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 6.12E-03 | 0.00E+00 | 0.00E+00 | 4.06E-04 | 6.59E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-03 | 0.00E+00 | 5.92E-04 | 7.05E-06 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.78E-02 | 0.00E+00 | 0.00E+00 | 2.51E+00 | 1.23E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.08E+00 | 0.00E+00 | 8.84E-01 | 5.45E-03 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 9.69E-03 | 0.00E+00 | 0.00E+00 | 7.38E-03 | 1.58E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.26E-01 | 0.00E+00 | 1.93E-01 | 8.10E-04 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 4.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.42E-02 | 0.00E+00 | 1.21E-01 | 5.49E-04 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.39E-03 | 0.00E+00 | 0.00E+00 | 1.62E-02 | 3.01E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E-01 | 0.00E+00 | 2.50E-01 | 3.03E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.72E-04 | 0.00E+00 | 0.00E+00 | 3.16E-04 | 6.33E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.67E-03 | 0.00E+00 | 2.87E-03 | 1.94E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 1.42E-02 | 3.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.48E-02 | 0.00E+00 | 1.52E-01 | 7.70E-04 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 6.12E-03 | 0.00E+00 | 0.00E+00 | 4.06E-04 | 6.59E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-03 | 0.00E+00 | 5.92E-04 | 7.05E-06 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 7.57E-02 | 0.00E+00 | 0.00E+00 | 1.03E-03 | 0.00E+00 | 0.00E+00 | 3.84E-02 | 0.00E+00 | 5.39E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 7.57E-02 | 0.00E+00 | 0.00E+00 | 1.03E-03 | 0.00E+00 | 0.00E+00 | 3.84E-02 | 0.00E+00 | 5.39E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 3.43E-01 | 0.00E+00 | 0.00E+00 | 6.34E+00 | 0.00E+00 | 0.00E+00 | 2.45E+00 | 0.00E+00 | 3.79E+00 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 0.00E+00 | 1.87E-02 | 0.00E+00 | 0.00E+00 | 3.36E-01 | 0.00E+00 | 7.77E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 1.72E-01 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 5.42E-02 | 0.00E+00 | 0.00E+00 | 4.09E-02 | 0.00E+00 | 0.00E+00 | 1.61E-02 | 0.00E+00 | 3.59E-01 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 3.36E-03 | 0.00E+00 | 0.00E+00 | 7.98E-04 | 0.00E+00 | 0.00E+00 | 3.79E-03 | 0.00E+00 | 6.71E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 3.60E-02 | 0.00E+00 | 0.00E+00 | 7.19E-02 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 1.03E-02 | 0.00E+00 | 0.00E+00 | 4.56E-04 | 0.00E+00 | 0.00E+00 | 1.57E-01 | 0.00E+00 | 6.22E-04 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 1.03E-02 | 0.00E+00 | 0.00E+00 | 4.56E-04 | 0.00E+00 | 0.00E+00 | 1.57E-01 | 0.00E+00 | 6.22E-04 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 4.68E-02 | 0.00E+00 | 0.00E+00 | 2.82E+00 | 0.00E+00 | 0.00E+00 | 1.00E+01 | 0.00E+00 | 4.37E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.63E-02 | 0.00E+00 | 0.00E+00 | 8.29E-03 | 0.00E+00 | 0.00E+00 | 1.38E+00 | 0.00E+00 | 8.97E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 1.98E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 7.39E-03 | 0.00E+00 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 0.00E+00 | 6.58E-02 | 0.00E+00 | 4.14E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 4.58E-04 | 0.00E+00 | 0.00E+00 | 3.55E-04 | 0.00E+00 | 0.00E+00 | 1.55E-02 | 0.00E+00 | 7.74E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 1.60E-02 | 0.00E+00 | 0.00E+00 | 2.94E-01 | 0.00E+00 | 1.15E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| **Raccoon - 1** | **tPCB** | 3.11E-02 | 0.00E+00 | 4.94E-03 | 0.00E+00 | 0.00E+00 | 8.04E-04 | 2.35E-03 | 0.00E+00 | 0.00E+00 | 5.65E-03 | 3.37E-04 | 6.52E-03 | 0.00E+00 | 1.30E-05 |
| | **Barium** | 1.64E-01 | 0.00E+00 | 2.24E-02 | 0.00E+00 | 0.00E+00 | 4.97E+00 | 4.38E-02 | 0.00E+00 | 0.00E+00 | 3.58E-02 | 2.37E-01 | 1.89E-01 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | 4.53E-02 | 0.00E+00 | 7.82E-03 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 5.64E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 4.87E-02 | 4.64E-02 | 0.00E+00 | 1.49E-03 |
| | **Cobalt** | 1.63E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.50E-03 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.08E-02 | 1.79E-02 | 0.00E+00 | 1.01E-03 |
| | **Lead** | 4.53E-02 | 0.00E+00 | 3.54E-03 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 1.07E-03 | 0.00E+00 | 0.00E+00 | 3.39E-03 | 2.25E-02 | 6.43E-02 | 0.00E+00 | 5.59E-03 |
| | **Mercury** | 8.87E-03 | 0.00E+00 | 2.20E-04 | 0.00E+00 | 0.00E+00 | 6.25E-04 | 2.26E-04 | 0.00E+00 | 0.00E+00 | 5.76E-04 | 4.20E-04 | 5.06E-03 | 0.00E+00 | 3.57E-05 |
| | **Vanadium** | 2.24E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 2.82E-02 | 1.24E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 6.26E-03 | 3.35E-02 | 0.00E+00 | 1.42E-03 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.77E-02 | 1.46E-02 | 2.77E-03 | 8.04E-04 | 2.46E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-03 | 0.00E+00 | 4.24E-04 | 1.30E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 8.04E-02 | 1.84E-01 | 6.99E-01 | 4.97E+00 | 4.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.49E-01 | 0.00E+00 | 6.33E-01 | 1.00E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.80E-02 | 1.55E-02 | 2.42E-01 | 1.46E-02 | 5.90E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-01 | 0.00E+00 | 1.38E-01 | 1.49E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 7.96E-02 | 3.44E-02 | 2.02E-01 | 6.97E-02 | 1.57E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.31E-02 | 0.00E+00 | 8.65E-02 | 1.01E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.27E-02 | 4.56E-02 | 2.57E-01 | 3.21E-02 | 1.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.99E-02 | 0.00E+00 | 1.79E-01 | 5.59E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 7.87E-04 | 6.56E-04 | 7.33E-04 | 6.25E-04 | 2.36E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-03 | 0.00E+00 | 2.06E-03 | 3.57E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 3.19E-02 | 1.52E-02 | 8.32E-02 | 2.82E-02 | 1.30E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E-02 | 0.00E+00 | 1.09E-01 | 1.42E-03 |

**Table E3-103**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C6, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.08E+00 | 1.98E-02 | 1.09E+00 | 1.09E+00 | 4.67E-01 | 1.40E+00 | **2E+00** | 8E-01 | 4E-02 | 1E-02 | **2E+00** | 8E-01 | **2E+00** |
| | **Barium** | 6.66E+00 | 2.44E+01 | 3.11E+01 | 3.11E+01 | 2.08E+01 | 4.17E+01 | 3E-01 | 2E-01 | **1E+00** | 6E-01 | **1E+00** | 7E-01 | **1E+00** |
| | **Chromium** | 1.80E+00 | 2.60E+00 | 4.39E+00 | 4.40E+00 | 2.66E+00 | 2.80E+00 | 7E-01 | 6E-01 | 1E+00 | 9E-01 | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 6.56E-01 | 4.35E+00 | 5.01E+00 | 5.01E+00 | 7.61E+00 | 7.80E+00 | 9E-02 | 8E-02 | 6E-01 | 6E-01 | 7E-01 | 6E-01 | 7E-01 |
| | **Lead** | 1.91E+00 | 6.18E+00 | 8.09E+00 | 8.10E+00 | 1.63E+00 | 3.26E+00 | **1E+00** | 6E-01 | **4E+00** | **2E+00** | **5E+00** | **2E+00** | **5E+00** |
| | **Mercury** | 3.26E-01 | 3.95E-02 | 3.66E-01 | 3.66E-01 | 2.27E-02 | 6.80E-02 | **1E+01** | **5E+00** | **2E+00** | 6E-01 | **2E+01** | **5E+00** | **2E+01** |
| | **Vanadium** | 9.55E-01 | 2.37E+00 | 3.32E+00 | 3.33E+00 | 3.44E-01 | 7.00E-01 | **3E+00** | **1E+00** | **7E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.08E+00 | 1.98E-02 | 1.09E+00 | 1.09E+00 | 4.33E-02 | 1.30E-01 | **2E+01** | **8E+00** | 5E-01 | 2E-01 | **3E+01** | **8E+00** | **3E+01** |
| **GBH - mid** | **tPCB-med** | 6.12E-03 | 6.63E-01 | 6.70E-01 | 6.70E-01 | 4.67E-01 | 1.40E+00 | 1E-02 | 4E-03 | **1E+00** | 5E-01 | **1E+00** | 5E-01 | **1E+00** |
| | **Barium** | 2.78E-02 | 1.77E+01 | 1.78E+01 | 1.78E+01 | 2.08E+01 | 4.17E+01 | 1E-03 | 7E-04 | 9E-01 | 4E-01 | 9E-01 | 4E-01 | 9E-01 |
| | **Chromium** | 9.69E-03 | 2.21E+00 | 2.22E+00 | 2.22E+00 | 2.66E+00 | 2.80E+00 | 4E-03 | 3E-03 | 8E-01 | 8E-01 | 8E-01 | 8E-01 | 8E-01 |
| | **Cobalt** | 2.75E-02 | 6.72E-01 | 6.99E-01 | 7.00E-01 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 9E-02 | 9E-02 | 9E-02 | 9E-02 | 9E-02 |
| | **Lead** | 4.39E-03 | 7.64E-01 | 7.68E-01 | 7.71E-01 | 1.63E+00 | 3.26E+00 | 3E-03 | 1E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 | 5E-01 |
| | **Mercury** | 2.72E-04 | 7.02E-02 | 7.05E-02 | 7.05E-02 | 2.27E-02 | 6.80E-02 | 1E-02 | 4E-03 | **3E+00** | 1E+00 | **3E+00** | 1E+00 | **3E+00** |
| | **Vanadium** | 1.10E-02 | 5.68E-01 | 5.79E-01 | 5.80E-01 | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | **2E+00** | 8E-01 | **2E+00** | 8E-01 | **2E+00** |
| **GBH - high** | **tPCB-high** | 6.12E-03 | 6.63E-01 | 6.70E-01 | 6.70E-01 | 4.33E-02 | 1.30E-01 | 1E-01 | 5E-02 | **2E+01** | **5E+00** | **2E+01** | **5E+00** | **2E+01** |
| **Mink - 1** | **tPCB-mink** | 7.57E-02 | 4.48E-02 | 1.20E-01 | 1.21E-01 | 5.00E-02 | 1.00E-01 | **2E+00** | 8E-01 | 9E-01 | 4E-01 | **2E+00** | **1E+00** | **2E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 7.57E-02 | 4.48E-02 | 1.20E-01 | 1.21E-01 | na | 5.00E-02 | **--** | **2E+00** | **--** | 9E-01 | **--** | **2E+00** | **--** |
| | **Barium** | 3.43E-01 | 1.26E+01 | 1.29E+01 | 1.29E+01 | 5.18E+01 | 1.21E+02 | 7E-03 | 3E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 |
| | **Chromium** | 1.20E-01 | 1.13E+00 | 1.25E+00 | 1.25E+00 | 2.40E+00 | 2.82E+00 | 5E-02 | 4E-02 | 5E-01 | 4E-01 | 5E-01 | 4E-01 | 5E-01 |
| | **Cobalt** | 3.40E-01 | 4.62E-01 | 8.02E-01 | 8.03E-01 | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 6E-02 | 5E-02 | 1E-01 | 8E-02 | 1E-01 |
| | **Lead** | 5.42E-02 | 4.16E-01 | 4.70E-01 | 4.77E-01 | 4.70E+00 | 8.90E+00 | 1E-02 | 6E-03 | 9E-02 | 5E-02 | 1E-01 | 5E-02 | 1E-01 |
| | **Mercury** | 3.36E-03 | 1.13E-02 | 1.47E-02 | 1.47E-02 | 7.50E-02 | 1.50E-01 | 4E-02 | 2E-02 | 2E-01 | 8E-02 | 2E-01 | 1E-01 | 2E-01 |
| | **Vanadium** | 1.36E-01 | 2.08E-01 | 3.44E-01 | 3.46E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 5E-02 | 3E-02 | 8E-02 | 4E-02 | 8E-02 |
| **Mink - 2** | **tPCB-mink** | 1.03E-02 | 1.58E-01 | 1.69E-01 | 1.69E-01 | 5.00E-02 | 1.00E-01 | 2E-01 | 1E-01 | **3E+00** | **2E+00** | **3E+00** | **2E+00** | **3E+00** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.03E-02 | 1.58E-01 | 1.69E-01 | 1.69E-01 | na | 5.00E-02 | **--** | 2E-01 | **--** | **3E+00** | **--** | **3E+00** | **--** |
| | **Barium** | 4.68E-02 | 1.35E+01 | 1.35E+01 | 1.35E+01 | 5.18E+01 | 1.21E+02 | 9E-04 | 4E-04 | 3E-01 | 1E-01 | 3E-01 | 1E-01 | 3E-01 |
| | **Chromium** | 1.63E-02 | 1.48E+00 | 1.50E+00 | 1.50E+00 | 2.40E+00 | 2.82E+00 | 7E-03 | 6E-03 | 6E-01 | 5E-01 | 6E-01 | 5E-01 | 6E-01 |
| | **Cobalt** | 4.64E-02 | 8.98E-01 | 9.44E-01 | 9.46E-01 | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 |
| | **Lead** | 7.39E-03 | 1.43E-01 | 1.51E-01 | 1.57E-01 | 4.70E+00 | 8.90E+00 | 2E-03 | 8E-04 | 3E-02 | 2E-02 | 3E-02 | 2E-02 | 3E-02 |
| | **Mercury** | 4.58E-04 | 1.67E-02 | 1.71E-02 | 1.72E-02 | 7.50E-02 | 1.50E-01 | 6E-03 | 3E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 |
| | **Vanadium** | 1.85E-02 | 3.29E-01 | 3.47E-01 | 3.49E-01 | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 8E-02 | 4E-02 | 8E-02 | 4E-02 | 8E-02 |
| **Raccoon - 1** | **tPCB** | 1.02E-01 | 9.15E-03 | 1.11E-01 | 1.11E-01 | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 4E-02 | 1E-02 | 5E-01 | 2E-01 | 5E-01 |
| | **Barium** | 1.32E+00 | 5.29E+00 | 6.60E+00 | 6.61E+00 | 5.18E+01 | 1.21E+02 | 3E-02 | 1E-02 | 1E-01 | 4E-02 | 1E-01 | 5E-02 | 1E-01 |
| | **Chromium** | 1.84E-01 | 7.37E-02 | 2.58E-01 | 2.59E-01 | 2.40E+00 | 2.82E+00 | 8E-02 | 7E-02 | 3E-02 | 3E-02 | 1E-01 | 9E-02 | 1E-01 |
| | **Cobalt** | 1.27E-01 | 9.41E-02 | 2.21E-01 | 2.22E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 9E-03 | 3E-02 | 2E-02 | 3E-02 |
| | **Lead** | 1.60E-01 | 5.90E-02 | 2.19E-01 | 2.24E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 2E-02 | 1E-02 | 7E-03 | 5E-02 | 2E-02 | 5E-02 |
| | **Mercury** | 2.43E-02 | 1.85E-03 | 2.61E-02 | 2.62E-02 | 7.50E-02 | 1.50E-01 | 3E-01 | 2E-01 | 2E-02 | 1E-02 | 3E-01 | 2E-01 | 3E-01 |
| | **Vanadium** | 8.86E-02 | 4.05E-02 | 1.29E-01 | 1.30E-01 | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 1E-02 | 5E-03 | 3E-02 | 2E-02 | 3E-02 |
| **Raccoon - 2** | **tPCB** | 1.77E-02 | 4.48E-02 | 6.25E-02 | 6.26E-02 | 2.30E-01 | 6.80E-01 | 8E-02 | 3E-02 | 2E-01 | 7E-02 | 3E-01 | 9E-02 | 3E-01 |
| | **Barium** | 8.04E-02 | 9.58E+00 | 9.66E+00 | 9.67E+00 | 5.18E+01 | 1.21E+02 | 2E-03 | 7E-04 | 2E-01 | 8E-02 | 2E-01 | 8E-02 | 2E-01 |
| | **Chromium** | 2.80E-02 | 7.34E-01 | 7.62E-01 | 7.64E-01 | 2.40E+00 | 2.82E+00 | 1E-02 | 1E-02 | 3E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 7.96E-02 | 6.10E-01 | 6.89E-01 | 6.90E-01 | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 8E-02 | 6E-02 | 9E-02 | 7E-02 | 9E-02 |
| | **Lead** | 1.27E-02 | 7.80E-01 | 7.92E-01 | 7.98E-01 | 4.70E+00 | 8.90E+00 | 3E-03 | 1E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 | 2E-01 |
| | **Mercury** | 7.87E-04 | 8.37E-03 | 9.16E-03 | 9.19E-03 | 7.50E-02 | 1.50E-01 | 1E-02 | 5E-03 | 1E-01 | 6E-02 | 1E-01 | 6E-02 | 1E-01 |
| | **Vanadium** | 3.19E-02 | 3.38E-01 | 3.70E-01 | 3.71E-01 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 8E-02 | 4E-02 | 9E-02 | 4E-02 | 9E-02 |

**Table E3-103**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C6, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients |
|---|---|---|
| | | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 8E-01 |
| | **Barium** | 7E-01 |
| | **Chromium** | **2E+00** |
| | **Cobalt** | 6E-01 |
| | **Lead** | **2E+00** |
| | **Mercury** | **5E+00** |
| | **Vanadium** | **5E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **8E+00** |
| **GBH - mid** | **tPCB-med** | 5E-01 |
| | **Barium** | 4E-01 |
| | **Chromium** | 8E-01 |
| | **Cobalt** | 9E-02 |
| | **Lead** | 2E-01 |
| | **Mercury** | 1E+00 |
| | **Vanadium** | 8E-01 |
| **GBH - high** | **tPCB-high** | **5E+00** |
| **Mink - 1** | **tPCB-mink** | **1E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2E+00** |
| | **Barium** | 1E-01 |
| | **Chromium** | 4E-01 |
| | **Cobalt** | 8E-02 |
| | **Lead** | 5E-02 |
| | **Mercury** | 1E-01 |
| | **Vanadium** | 4E-02 |
| **Mink - 2** | **tPCB-mink** | **2E+00** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **3E+00** |
| | **Barium** | 1E-01 |
| | **Chromium** | 5E-01 |
| | **Cobalt** | 9E-02 |
| | **Lead** | 2E-02 |
| | **Mercury** | 1E-01 |
| | **Vanadium** | 4E-02 |
| **Raccoon - 1** | **tPCB** | 2E-01 |
| | **Barium** | 5E-02 |
| | **Chromium** | 9E-02 |
| | **Cobalt** | 2E-02 |
| | **Lead** | 3E-02 |
| | **Mercury** | 2E-01 |
| | **Vanadium** | 2E-02 |
| **Raccoon - 2** | **tPCB** | 9E-02 |
| | **Barium** | 8E-02 |
| | **Chromium** | 3E-01 |
| | **Cobalt** | 7E-02 |
| | **Lead** | 9E-02 |
| | **Mercury** | 6E-02 |
| | **Vanadium** | 4E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-104**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C6**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-104**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C6**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians |
| **Tree Swallow - mid** | **tPCB-med** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Tree Swallow - high** | **tPCB-high** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 1 - high** | **tPCB-high** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 2 - high** | **tPCB-high** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **Osprey - mid** | **tPCB-med** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Osprey - high** | **tPCB-high** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **Bat** | **tPCB** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Otter** | **tPCB-mink** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |

**Table E3-104**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C6**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Body Weight | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water |
| **Tree Swallow - mid** | **tPCB-med** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.93E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| | **Barium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 2.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 |
| | **Chromium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 |
| | **Cobalt** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 6.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 |
| | **Lead** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 |
| | **Mercury** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 4.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 |
| | **Vanadium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 |
| **Tree Swallow - high** | **tPCB-high** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.93E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 1.63E-01 | 0.00E+00 | 1.63E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.38E-03 | 2.66E-05 |
| | **Barium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.04E+00 | 2.06E-02 |
| | **Chromium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 3.06E-03 |
| | **Cobalt** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E+00 | 2.07E-03 |
| | **Lead** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E+00 | 1.14E-02 |
| | **Mercury** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.12E-02 | 0.00E+00 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E-02 | 7.31E-05 |
| | **Vanadium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E+00 | 2.91E-03 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 1.63E-01 | 0.00E+00 | 1.63E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.38E-03 | 2.66E-05 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.67E+00 | 0.00E+00 | 0.00E+00 | 5.30E-04 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E+00 | 0.00E+00 | 0.00E+00 | 7.91E-01 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 0.00E+00 | 0.00E+00 | 1.72E-01 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 1.08E-01 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 2.24E-01 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.07E-02 | 0.00E+00 | 0.00E+00 | 2.57E-03 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 1.88E-03 |
| **Kingfisher - 1 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.67E+00 | 0.00E+00 | 0.00E+00 | 5.30E-04 | 1.72E-05 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.85E-02 | 0.00E+00 | 4.31E+00 | 0.00E+00 | 3.61E-02 | 5.30E-04 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E+00 | 0.00E+00 | 0.00E+00 | 3.95E+00 | 0.00E+00 | 3.47E-01 | 7.91E-01 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.33E+00 | 0.00E+00 | 1.42E-01 | 1.72E-01 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.23E-02 | 1.08E-01 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-02 | 0.00E+00 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 3.25E-02 | 2.24E-01 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 6.13E-02 | 0.00E+00 | 1.38E-02 | 2.57E-03 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 1.28E-02 | 1.36E-01 | 1.88E-03 |
| **Kingfisher - 2 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.85E-02 | 0.00E+00 | 0.00E+00 | 4.31E+00 | 0.00E+00 | 3.61E-02 | 5.30E-04 | 1.72E-05 |
| **Osprey - mid** | **tPCB-med** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.25E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| | **Barium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 |
| | **Chromium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 |
| | **Cobalt** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 |
| | **Lead** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 |
| | **Mercury** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 |
| | **Vanadium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 |
| **Osprey - high** | **tPCB-high** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.25E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| **Bat** | **tPCB** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 |
| | **Barium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 |
| | **Chromium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 |
| | **Cobalt** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 5.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 |
| | **Lead** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 |
| | **Mercury** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 3.33E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 |
| | **Vanadium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 |
| **Otter** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.70E-01 | 7.32E-01 | 3.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.70E-01 | 7.32E-01 | 3.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| | **Barium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 1.17E-01 | 3.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 |
| | **Chromium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-02 | 1.46E-02 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 |
| | **Cobalt** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E-03 | 3.49E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 |
| | **Lead** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.15E-03 | 1.64E-03 | 2.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 |
| | **Mercury** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-02 | 1.22E-02 | 5.36E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 |
| | **Vanadium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-02 | 1.14E-03 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 |

**Table E3-104**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C6**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 1.93E-01 | 1.93E-01 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Barium** | 2.72E+00 | 2.75E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 3.21E+00 | 3.21E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 6.82E-02 | 7.07E-02 | 7.61E+00 | 7.80E+00 | 9E-03 | 9E-03 | 9E-03 | 9E-03 |
| | **Lead** | 1.62E-01 | 1.76E-01 | 1.63E+00 | 3.26E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | 4.51E-02 | 4.52E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Vanadium** | 1.40E-01 | 1.44E-01 | 3.44E-01 | 7.00E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | 1.93E-01 | 1.93E-01 | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 3.31E-01 | 3.31E-01 | 4.67E-01 | 1.40E+00 | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Barium** | 1.87E+01 | 1.87E+01 | 2.08E+01 | 4.17E+01 | 9E-01 | 4E-01 | 9E-01 | 4E-01 |
| | **Chromium** | 2.44E+00 | 2.44E+00 | 2.66E+00 | 2.80E+00 | 9E-01 | 9E-01 | 9E-01 | 9E-01 |
| | **Cobalt** | 1.89E+00 | 1.89E+00 | 7.61E+00 | 7.80E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3.34E+00 | 3.36E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | 8.84E-02 | 8.85E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 1.84E+00 | 1.84E+00 | 3.44E-01 | 7.00E-01 | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 3.31E-01 | 3.31E-01 | 4.33E-02 | 1.30E-01 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | 5.68E+00 | 5.68E+00 | 4.67E-01 | 1.40E+00 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 5.98E+00 | 6.00E+00 | 2.08E+01 | 4.17E+01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 1.92E+00 | 1.93E+00 | 2.66E+00 | 2.80E+00 | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Cobalt** | 3.15E+00 | 3.15E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 5.50E-01 | 5.57E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | 8.33E-02 | 8.33E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 3.23E-01 | 3.25E-01 | 3.44E-01 | 7.00E-01 | 9E-01 | 5E-01 | 9E-01 | 5E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 5.68E+00 | 5.68E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | 4.43E+00 | 4.43E+00 | 4.67E-01 | 1.40E+00 | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Barium** | 1.11E+01 | 1.11E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Chromium** | 1.69E+00 | 1.69E+00 | 2.66E+00 | 2.80E+00 | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 3.03E+00 | 3.03E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 6.02E-01 | 6.10E-01 | 1.63E+00 | 3.26E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | 8.39E-02 | 8.39E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 3.32E-01 | 3.34E-01 | 3.44E-01 | 7.00E-01 | 1E+00 | 5E-01 | 1E+00 | 5E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 4.43E+00 | 4.43E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **3E+01** | **1E+02** | **3E+01** |
| **Osprey - mid** | **tPCB-med** | 3.25E+00 | 3.25E+00 | 4.67E-01 | 1.40E+00 | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Barium** | 1.04E+00 | 1.05E+00 | 2.08E+01 | 4.17E+01 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Chromium** | 3.22E-01 | 3.23E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 3.21E-02 | 3.28E-02 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 4E-03 | 4E-03 |
| | **Lead** | 3.86E-02 | 4.21E-02 | 1.63E+00 | 3.26E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 5.24E-02 | 5.24E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | 8.39E-02 | 8.48E-02 | 3.44E-01 | 7.00E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | 3.25E+00 | 3.25E+00 | 4.33E-02 | 1.30E-01 | **7E+01** | **2E+01** | **7E+01** | **2E+01** |
| **Bat** | **tPCB** | 1.43E-01 | 1.43E-01 | 2.30E-01 | 6.80E-01 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 2.01E+00 | 2.03E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.37E+00 | 2.37E+00 | 2.40E+00 | 2.82E+00 | 1E+00 | 8E-01 | 1E+00 | 8E-01 |
| | **Cobalt** | 5.03E-02 | 5.23E-02 | 7.33E+00 | 1.00E+01 | 7E-03 | 5E-03 | 7E-03 | 5E-03 |
| | **Lead** | 1.20E-01 | 1.30E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 3.33E-02 | 3.34E-02 | 7.50E-02 | 1.50E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 1.03E-01 | 1.06E-01 | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | 1.88E+00 | 1.88E+00 | 5.00E-02 | 1.00E-01 | **4E+01** | **2E+01** | **4E+01** | **2E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | 1.88E+00 | 1.88E+00 | na | 5.00E-02 | -- | **4E+01** | -- | **4E+01** |
| | **Barium** | 7.09E-01 | 7.19E-01 | 5.18E+01 | 1.21E+02 | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 2.07E-01 | 2.08E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Cobalt** | 2.13E-01 | 2.14E-01 | 7.33E+00 | 1.00E+01 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 3.24E-02 | 3.79E-02 | 4.70E+00 | 8.90E+00 | 7E-03 | 4E-03 | 8E-03 | 4E-03 |
| | **Mercury** | 3.00E-02 | 3.00E-02 | 7.50E-02 | 1.50E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 3.34E-02 | 3.48E-02 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 8E-03 | 4E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-105**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **1.83E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.55E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **1.83E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| **Blue Jay - mid** | **tPCB-med** | **1.83E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.55E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **1.83E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.83E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.55E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.83E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| **Shrew - 1** | **tPCB** | **1.83E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.55E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **1.83E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.55E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **1.83E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.55E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **1.83E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.55E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **1.83E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **1.56E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.84E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.55E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.72E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-105**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.58E-02 | 1.88E-05 | 9.76E-02 | 9.76E-02 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.06E-02 | 5.16E-05 | 3.91E-02 | 3.91E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.61E-01 | 2.16E-03 | 7.00E-01 | 7.02E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-01 | 8.08E-03 | 5.15E-01 | 5.23E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 2.05E-03 | 5.51E-01 | 5.53E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.58E-02 | 1.88E-05 | 9.76E-02 | 9.76E-02 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 7.81E-02 | 0.00E+00 | 3.91E-02 | 2.04E-05 | 1.71E-01 | 1.71E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 4.68E-04 | 0.00E+00 | 5.31E-02 | 0.00E+00 | 3.34E-02 | 5.59E-05 | 9.41E-02 | 9.42E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 3.94E-01 | 2.34E-03 | 1.13E+00 | 1.13E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 5.46E-01 | 8.75E-03 | 2.51E+00 | 2.52E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 5.82E-01 | 2.22E-03 | 7.59E-01 | 7.61E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 7.81E-02 | 0.00E+00 | 3.91E-02 | 2.04E-05 | 1.71E-01 | 1.71E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.70E-01 | 3.51E-01 | 0.00E+00 | 6.23E-02 | 4.23E-05 | 6.03E-01 | 6.03E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 3.05E-03 | 1.15E-01 | 2.39E-01 | 0.00E+00 | 5.32E-02 | 1.16E-04 | 4.12E-01 | 4.12E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 6.28E-01 | 4.86E-03 | 3.67E+00 | 3.67E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 8.70E-01 | 1.82E-02 | 1.39E+01 | 1.39E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 9.28E-01 | 4.62E-03 | 2.01E+00 | 2.01E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.70E-01 | 3.51E-01 | 0.00E+00 | 6.23E-02 | 4.23E-05 | 6.03E-01 | 6.03E-01 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.70E-03 | 3.13E-03 | 2.19E-01 | 1.51E-01 | 0.00E+00 | 7.00E-03 | 2.35E-05 | 3.88E-01 | 3.88E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 9.06E-04 | 1.49E-01 | 1.03E-01 | 0.00E+00 | 5.98E-03 | 6.45E-05 | 2.60E-01 | 2.60E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 7.06E-02 | 2.70E-03 | 1.90E+00 | 1.90E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 9.78E-02 | 1.01E-02 | 9.35E+00 | 9.36E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 1.04E-01 | 2.57E-03 | 8.65E-01 | 8.67E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.40E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.35E-04 | 1.03E-05 | 6.94E-03 | 6.95E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.57E-04 | 2.84E-05 | 1.33E-03 | 1.36E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.39E-03 | 1.19E-03 | 4.05E-02 | 4.17E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.47E-03 | 4.44E-03 | 8.98E-03 | 1.34E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.97E-03 | 1.13E-03 | 9.76E-03 | 1.09E-02 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.84E-01 | 4.66E-03 | 1.72E-05 | 8.89E-01 | 8.89E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.95E-03 | 3.98E-03 | 4.73E-05 | 1.09E-02 | 1.10E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 4.70E-02 | 1.98E-03 | 3.25E-01 | 3.27E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 6.51E-02 | 7.40E-03 | 3.80E-01 | 3.88E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 6.94E-02 | 1.88E-03 | 4.40E-01 | 4.42E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.81E-03 | 0.00E+00 | 7.03E-03 | 0.00E+00 | 4.46E-01 | 1.94E-03 | 1.33E-05 | 4.58E-01 | 4.58E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 4.78E-03 | 0.00E+00 | 3.50E-03 | 1.65E-03 | 3.66E-05 | 1.03E-02 | 1.04E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 1.40E-01 | 1.95E-02 | 1.53E-03 | 2.05E-01 | 2.06E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 1.59E-01 | 2.70E-02 | 5.72E-03 | 3.62E-01 | 3.68E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 1.87E-01 | 2.88E-02 | 1.45E-03 | 2.31E-01 | 2.32E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.27E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.36E-01 | 1.94E-03 | 1.33E-05 | 5.39E-01 | 5.39E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.21E-03 | 1.65E-03 | 3.66E-05 | 5.98E-03 | 6.01E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 1.95E-02 | 1.53E-03 | 1.93E-01 | 1.94E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 2.70E-02 | 5.72E-03 | 2.18E-01 | 2.24E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.88E-02 | 1.45E-03 | 2.54E-01 | 2.55E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-105**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 2E-01 | 7E-02 | 2E-01 | 7E-02 |
| | **Mercury** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Chromium** | 3E-01 | 2E-01 | 3E-01 | 3E-01 |
| | **Lead** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Mourning Dove - high** | **tPCB-high** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Blue Jay - mid** | **tPCB-med** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Chromium** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Shrew - 1** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| | **Chromium** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 2E-03 | 1E-03 | 3E-03 | 2E-03 |
| | **Vanadium** | 2E-03 | 1E-03 | 3E-03 | 1E-03 |
| **Weasel** | **tPCB** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Mercury** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 5E-02 | 2E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-106**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **2.72E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.43E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **2.72E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| **Blue Jay - mid** | **tPCB-med** | **2.72E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.43E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **2.72E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **2.72E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.43E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **2.72E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| **Shrew - 1** | **tPCB** | **2.72E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.43E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **2.72E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.43E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **2.72E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.43E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **2.72E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.43E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **2.72E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 |
| | **Mercury** | **2.75E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 |
| | **Chromium** | **1.00E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.43E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.29E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-106**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.34E-02 | 1.88E-05 | 1.15E-01 | 1.15E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.40E-02 | 5.16E-05 | 6.25E-02 | 6.25E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-01 | 2.16E-03 | 5.35E-01 | 5.37E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.81E-01 | 8.08E-03 | 2.95E-01 | 3.03E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E-01 | 2.05E-03 | 2.70E-01 | 2.72E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.34E-02 | 1.88E-05 | 1.15E-01 | 1.15E-01 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 7.81E-02 | 0.00E+00 | 0.00E+00 | 5.83E-02 | 2.04E-05 | 1.90E-01 | 1.90E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 4.68E-04 | 0.00E+00 | 5.31E-02 | 0.00E+00 | 0.00E+00 | 5.89E-02 | 5.59E-05 | 1.20E-01 | 1.20E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 2.14E-01 | 2.34E-03 | 9.51E-01 | 9.53E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 0.00E+00 | 3.06E-01 | 8.75E-03 | 2.27E+00 | 2.28E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 2.76E-01 | 2.22E-03 | 4.53E-01 | 4.55E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 7.81E-02 | 0.00E+00 | 0.00E+00 | 5.83E-02 | 2.04E-05 | 1.90E-01 | 1.90E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.70E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 9.29E-02 | 4.23E-05 | 6.33E-01 | 6.33E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 3.05E-03 | 1.15E-01 | 2.39E-01 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 1.16E-04 | 4.52E-01 | 4.53E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 3.41E-01 | 4.86E-03 | 3.38E+00 | 3.39E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 4.88E-01 | 1.82E-02 | 1.35E+01 | 1.35E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 4.62E-03 | 1.52E+00 | 1.53E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.70E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 9.29E-02 | 4.23E-05 | 6.33E-01 | 6.33E-01 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.70E-03 | 3.13E-03 | 2.19E-01 | 1.51E-01 | 0.00E+00 | 0.00E+00 | 1.04E-02 | 2.35E-05 | 3.91E-01 | 3.91E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 9.06E-04 | 1.49E-01 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 1.06E-02 | 6.45E-05 | 2.65E-01 | 2.65E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 0.00E+00 | 3.83E-02 | 2.70E-03 | 1.87E+00 | 1.87E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 0.00E+00 | 5.48E-02 | 1.01E-02 | 9.31E+00 | 9.32E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 0.00E+00 | 4.95E-02 | 2.57E-03 | 8.10E-01 | 8.12E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.40E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.98E-04 | 1.03E-05 | 7.20E-03 | 7.21E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.07E-04 | 2.84E-05 | 1.68E-03 | 1.71E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-03 | 1.19E-03 | 3.81E-02 | 3.92E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.19E-03 | 4.44E-03 | 5.70E-03 | 1.01E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 1.13E-03 | 5.57E-03 | 6.70E-03 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.84E-01 | 6.95E-03 | 1.72E-05 | 8.91E-01 | 8.91E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.95E-03 | 7.02E-03 | 4.73E-05 | 1.40E-02 | 1.40E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 2.55E-02 | 1.98E-03 | 3.04E-01 | 3.06E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 3.65E-02 | 7.40E-03 | 3.52E-01 | 3.59E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 3.29E-02 | 1.88E-03 | 4.04E-01 | 4.06E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.81E-03 | 0.00E+00 | 7.03E-03 | 0.00E+00 | 0.00E+00 | 4.46E-01 | 2.89E-03 | 1.33E-05 | 4.58E-01 | 4.58E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 4.78E-03 | 0.00E+00 | 0.00E+00 | 3.50E-03 | 2.92E-03 | 3.66E-05 | 1.16E-02 | 1.16E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.06E-02 | 1.53E-03 | 1.96E-01 | 1.97E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 1.52E-02 | 5.72E-03 | 3.50E-01 | 3.56E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 1.37E-02 | 1.45E-03 | 2.16E-01 | 2.17E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.27E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.36E-01 | 2.89E-03 | 1.33E-05 | 5.40E-01 | 5.40E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.21E-03 | 2.92E-03 | 3.66E-05 | 7.24E-03 | 7.28E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 1.06E-02 | 1.53E-03 | 1.84E-01 | 1.85E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 1.52E-02 | 5.72E-03 | 2.06E-01 | 2.12E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 1.37E-02 | 1.45E-03 | 2.39E-01 | 2.40E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-106**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Vanadium** | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| **Mourning Dove - high** | **tPCB-high** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| **Blue Jay - mid** | **tPCB-med** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Chromium** | 4E-01 | 3E-01 | 4E-01 | 3E-01 |
| | **Lead** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Vanadium** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **Blue Jay - high** | **tPCB-high** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Mercury** | **2E+01** | **7E+00** | **2E+01** | **7E+00** |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Vanadium** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Shrew - 1** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Chromium** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 1E-03 | 6E-04 | 2E-03 | 1E-03 |
| | **Vanadium** | 1E-03 | 7E-04 | 2E-03 | 8E-04 |
| **Weasel** | **tPCB** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Mercury** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 7E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 7E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 4E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-107**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.83E+00** | **1.68E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.56E+00** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.72E+01** | **4.31E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.83E+00** | **1.68E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.83E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **1.56E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **2.72E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.83E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.83E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **1.56E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **2.72E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **1.83E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **1.56E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **2.72E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-107**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Measured Tissue (mg/kg dry weight) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |

**Table E3-107**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.64E+00 | 8.06E-01 | 9.60E-02 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.00E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 |
| | **Mercury** | 3.16E+00 | 1.88E-01 | 2.78E-02 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 2.00E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.64E+00 | 8.06E-01 | 9.60E-02 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.00E-02 |
| **Hawk - mid** | **tPCB-med** | 4.64E+00 | 8.06E-01 | 9.60E-02 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.10E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 |
| | **Mercury** | 3.16E+00 | 1.88E-01 | 2.78E-02 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 1.10E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 |
| **Hawk - high** | **tPCB-high** | 4.64E+00 | 8.06E-01 | 9.60E-02 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.10E+00 |
| **Raccoon - 1** | **tPCB** | 4.64E+00 | 8.06E-01 | 9.60E-02 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 5.60E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 |
| | **Mercury** | 3.16E+00 | 1.88E-01 | 2.78E-02 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 5.60E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 |
| **Shrew - 2** | **tPCB** | 4.64E+00 | 8.06E-01 | 9.60E-02 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.70E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 |
| | **Mercury** | 3.16E+00 | 1.88E-01 | 2.78E-02 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 1.70E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 |

**Table E3-107**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 5.66E-03 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 3.05E-03 | 0.00E+00 | 2.39E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.16E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.24E-02 | 0.00E+00 | 2.58E-04 | 1.24E-02 | 0.00E+00 | 2.12E-02 | 0.00E+00 | 0.00E+00 | 9.14E-03 |
| | **Barium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 |
| | **Chromium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| | **Cobalt** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 |
| | **Lead** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 |
| | **Mercury** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 8.47E-03 | 0.00E+00 | 7.46E-05 | 8.47E-03 | 0.00E+00 | 1.66E-04 | 0.00E+00 | 0.00E+00 | 7.18E-04 |
| | **Vanadium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| **Shrew - 2** | **tPCB** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 9.50E-03 | 0.00E+00 | 2.43E-01 | 0.00E+00 | 2.15E-03 | 1.04E-01 | 0.00E+00 | 9.52E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 1.30E-03 | 0.00E+00 | 1.66E-01 | 0.00E+00 | 6.22E-04 | 7.07E-02 | 0.00E+00 | 7.48E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-107**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.23E-02 | 0.00E+00 | 4.23E-05 | 2.42E-01 | 3.72E-01 | 6.15E-01 | 6.15E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E+00 | 0.00E+00 | 3.27E-02 | 1.19E+01 | 1.88E+01 | 3.07E+01 | 3.08E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.28E-01 | 0.00E+00 | 4.86E-03 | 2.15E+00 | 1.54E+00 | 3.68E+00 | 3.69E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.42E-01 | 0.00E+00 | 3.29E-03 | 2.47E+00 | 1.19E+00 | 3.66E+00 | 3.67E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 1.82E-02 | 5.13E+00 | 8.90E+00 | 1.40E+01 | 1.40E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.32E-02 | 0.00E+00 | 1.16E-04 | 1.72E-01 | 2.44E-01 | 4.16E-01 | 4.16E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.28E-01 | 0.00E+00 | 4.62E-03 | 1.30E+00 | 7.53E-01 | 2.05E+00 | 2.05E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.23E-02 | 0.00E+00 | 4.23E-05 | 2.42E-01 | 3.72E-01 | 6.15E-01 | 6.15E-01 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E+00 | 0.00E+00 | 8.34E-03 | 7.68E-04 | 8.93E-06 | 1.05E+00 | 1.28E+00 | 2.32E+00 | 2.32E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 3.42E-01 | 1.15E+00 | 6.90E-03 | 3.37E+00 | 1.25E+00 | 4.62E+00 | 4.63E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 8.41E-02 | 2.50E-01 | 1.03E-03 | 4.11E-01 | 3.44E-01 | 7.55E-01 | 7.56E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00 | 3.24E-02 | 1.57E-01 | 6.95E-04 | 1.12E+00 | 3.91E-01 | 1.51E+00 | 1.51E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.98E-03 | 0.00E+00 | 1.17E-01 | 3.24E-01 | 3.84E-03 | 4.87E-01 | 3.32E-01 | 8.19E-01 | 8.23E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-02 | 0.00E+00 | 7.13E-03 | 3.72E-03 | 2.45E-05 | 1.53E-02 | 2.15E-02 | 3.68E-02 | 3.68E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.24E-01 | 1.97E-01 | 9.75E-04 | 5.60E-01 | 2.91E-01 | 8.51E-01 | 8.52E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E+00 | 0.00E+00 | 8.34E-03 | 7.68E-04 | 8.93E-06 | 1.05E+00 | 1.28E+00 | 2.32E+00 | 2.32E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 2.71E-02 | 0.00E+00 | 0.00E+00 | 6.56E-02 | 3.69E-03 | 4.60E-03 | 0.00E+00 | 1.30E-05 | 5.61E-02 | 1.06E-01 | 1.62E-01 | 1.62E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 1.89E-01 | 0.00E+00 | 1.00E-02 | 4.46E+00 | 7.44E-01 | 5.21E+00 | 5.22E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 4.64E-02 | 0.00E+00 | 1.49E-03 | 2.05E-01 | 2.69E-02 | 2.32E-01 | 2.34E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 1.79E-02 | 0.00E+00 | 1.01E-03 | 1.25E-01 | 8.34E-02 | 2.08E-01 | 2.09E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 6.43E-02 | 0.00E+00 | 5.59E-03 | 6.95E-01 | 1.55E-02 | 7.10E-01 | 7.16E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 4.37E-04 | 0.00E+00 | 0.00E+00 | 9.15E-04 | 1.41E-03 | 3.93E-03 | 0.00E+00 | 3.57E-05 | 2.18E-02 | 3.48E-03 | 2.53E-02 | 2.53E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 6.86E-02 | 0.00E+00 | 1.42E-03 | 1.30E-01 | 1.17E-02 | 1.42E-01 | 1.43E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-01 | 5.86E-03 | 7.00E-03 | 6.44E-04 | 2.35E-05 | 4.61E-01 | 1.63E-01 | 6.24E-01 | 6.24E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-02 | 5.62E-02 | 2.87E-01 | 9.62E-01 | 1.82E-02 | 2.33E+01 | 1.03E+00 | 2.44E+01 | 2.44E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.31E-02 | 7.06E-02 | 2.10E-01 | 2.70E-03 | 1.77E+00 | 2.44E-01 | 2.01E+00 | 2.02E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 1.99E-03 | 2.72E-02 | 1.32E-01 | 1.83E-03 | 9.73E-01 | 1.62E-01 | 1.14E+00 | 1.14E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-04 | 5.27E-03 | 9.78E-02 | 2.72E-01 | 1.01E-02 | 8.79E+00 | 2.79E-01 | 9.07E+00 | 9.08E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.18E-03 | 2.24E-03 | 5.98E-03 | 3.13E-03 | 6.45E-05 | 2.45E-01 | 7.55E-03 | 2.52E-01 | 2.52E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.07E-03 | 1.04E-01 | 1.65E-01 | 2.57E-03 | 8.55E-01 | 1.79E-01 | 1.03E+00 | 1.04E+00 | 4.16E+00 | 8.31E+00 |

**Table E3-107**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5E-01 | 2E-01 | 8E-01 | 3E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 6E-01 | 3E-01 | 9E-01 | 5E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 8E-01 | 8E-01 | 6E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **3E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Mercury** | **8E+00** | **3E+00** | **1E+01** | **4E+00** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Vanadium** | **4E+00** | **2E+00** | **2E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **6E+00** | **2E+00** | **9E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Hawk - mid** | **tPCB-med** | **2E+00** | 7E-01 | **3E+00** | 9E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 2E-01 | 8E-02 | 6E-02 | 3E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 2E-01 | 1E-01 | 1E-01 | 1E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 5E-02 | 5E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 1E-01 | 2E-01 | 1E-01 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Mercury** | 7E-01 | 2E-01 | 9E-01 | 3E-01 | **2E+00** | 5E-01 | **2E+00** | 5E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | 8E-01 | 4E-01 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Hawk - high** | **tPCB-high** | **2E+01** | **8E+00** | **3E+01** | **1E+01** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | 2E-01 | 8E-02 | 5E-01 | 2E-01 | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 9E-02 | 7E-02 | 1E-02 | 1E-02 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 1E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 3E-01 | 1E-01 | 5E-02 | 2E-02 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 3E-02 | 2E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+00** | 7E-01 | 7E-01 | 2E-01 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 5E-01 | 2E-01 | 2E-02 | 9E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 1E-01 | 9E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 2E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 6E-02 | 3E-02 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **3E+00** | **2E+00** | 1E-01 | 5E-02 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 4E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-108**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **2.72E+00** | **1.68E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.54E+01** | **2.51E+02** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.00E+01** | **5.47E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **5.20E+00** | **3.43E+01** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.43E+01** | **7.10E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.75E+00** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.29E+01** | **4.31E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **2.72E+00** | **1.68E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **2.72E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.54E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.00E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **5.20E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.43E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.75E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.29E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **2.72E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **2.72E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **8.54E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **1.00E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **5.20E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **1.43E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **2.75E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **1.29E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Shrew - 2** | **tPCB** | **2.72E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.54E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.00E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **5.20E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.43E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.75E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.29E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-108**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |

**Table E3-108**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | 3.16E+00 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | 3.16E+00 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | 3.16E+00 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | 3.16E+00 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-108**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 5.66E-03 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 3.05E-03 | 0.00E+00 | 2.39E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.16E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.24E-02 | 0.00E+00 | 2.58E-04 | 1.24E-02 | 0.00E+00 | 2.12E-02 | 0.00E+00 | 0.00E+00 | 9.14E-03 | 2.71E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 7.06E-04 | 0.00E+00 | 8.47E-03 | 0.00E+00 | 7.46E-05 | 8.47E-03 | 0.00E+00 | 1.66E-04 | 0.00E+00 | 0.00E+00 | 7.18E-04 | 4.37E-04 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 9.50E-03 | 0.00E+00 | 2.43E-01 | 0.00E+00 | 2.15E-03 | 1.04E-01 | 0.00E+00 | 9.52E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-03 | 0.00E+00 | 1.66E-01 | 0.00E+00 | 6.22E-04 | 7.07E-02 | 0.00E+00 | 7.48E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-108**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 9.29E-02 | 0.00E+00 | 4.23E-05 | 2.73E-01 | 3.72E-01 | 6.45E-01 | 6.45E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.91E+00 | 0.00E+00 | 3.27E-02 | 1.23E+01 | 1.88E+01 | 3.11E+01 | 3.11E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 3.41E-01 | 0.00E+00 | 4.86E-03 | 1.86E+00 | 1.54E+00 | 3.40E+00 | 3.40E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.77E-01 | 0.00E+00 | 3.29E-03 | 2.41E+00 | 1.19E+00 | 3.60E+00 | 3.60E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.88E-01 | 0.00E+00 | 1.82E-02 | 4.74E+00 | 8.90E+00 | 1.36E+01 | 1.37E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.16E-04 | 2.12E-01 | 2.44E-01 | 4.57E-01 | 4.57E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 4.62E-03 | 8.08E-01 | 7.53E-01 | 1.56E+00 | 1.57E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 9.29E-02 | 0.00E+00 | 4.23E-05 | 2.73E-01 | 3.72E-01 | 6.45E-01 | 6.45E-01 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 1.27E+00 | 0.00E+00 | 1.24E-02 | 7.68E-04 | 8.93E-06 | 1.05E+00 | 1.28E+00 | 2.33E+00 | 2.33E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 1.03E-01 | 0.00E+00 | 3.90E-01 | 1.15E+00 | 6.90E-03 | 3.42E+00 | 1.25E+00 | 4.67E+00 | 4.68E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 9.39E-02 | 0.00E+00 | 4.57E-02 | 2.50E-01 | 1.03E-03 | 3.73E-01 | 3.44E-01 | 7.16E-01 | 7.17E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 2.35E-01 | 0.00E+00 | 2.38E-02 | 1.57E-01 | 6.95E-04 | 1.11E+00 | 3.91E-01 | 1.50E+00 | 1.51E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 7.98E-03 | 0.00E+00 | 6.53E-02 | 3.24E-01 | 3.84E-03 | 4.36E-01 | 3.32E-01 | 7.68E-01 | 7.72E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 1.78E-02 | 0.00E+00 | 1.26E-02 | 3.72E-03 | 2.45E-05 | 2.07E-02 | 2.15E-02 | 4.22E-02 | 4.23E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 9.39E-02 | 0.00E+00 | 5.89E-02 | 1.97E-01 | 9.75E-04 | 4.95E-01 | 2.91E-01 | 7.86E-01 | 7.87E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 1.27E+00 | 0.00E+00 | 1.24E-02 | 7.68E-04 | 8.93E-06 | 1.05E+00 | 1.28E+00 | 2.33E+00 | 2.33E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 6.56E-02 | 3.69E-03 | 6.87E-03 | 0.00E+00 | 1.30E-05 | 5.84E-02 | 1.06E-01 | 1.64E-01 | 1.64E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 5.32E-03 | 3.54E-02 | 2.15E-01 | 0.00E+00 | 1.00E-02 | 4.49E+00 | 7.44E-01 | 5.23E+00 | 5.24E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 4.83E-03 | 1.45E-02 | 2.52E-02 | 0.00E+00 | 1.49E-03 | 1.84E-01 | 2.69E-02 | 2.11E-01 | 2.13E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 1.21E-02 | 1.25E-03 | 1.31E-02 | 0.00E+00 | 1.01E-03 | 1.20E-01 | 8.34E-02 | 2.03E-01 | 2.04E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 4.11E-04 | 3.32E-03 | 3.61E-02 | 0.00E+00 | 5.59E-03 | 6.66E-01 | 1.55E-02 | 6.82E-01 | 6.87E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 9.15E-04 | 1.41E-03 | 6.94E-03 | 0.00E+00 | 3.57E-05 | 2.48E-02 | 3.48E-03 | 2.83E-02 | 2.84E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 4.83E-03 | 1.30E-03 | 3.25E-02 | 0.00E+00 | 1.42E-03 | 9.39E-02 | 1.17E-02 | 1.06E-01 | 1.07E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 1.56E-01 | 5.86E-03 | 1.04E-02 | 6.44E-04 | 2.35E-05 | 4.64E-01 | 1.63E-01 | 6.27E-01 | 6.27E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 1.27E-02 | 5.62E-02 | 3.27E-01 | 9.62E-01 | 1.82E-02 | 2.34E+01 | 1.03E+00 | 2.44E+01 | 2.44E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 1.15E-02 | 2.31E-02 | 3.83E-02 | 2.10E-01 | 2.70E-03 | 1.74E+00 | 2.44E-01 | 1.98E+00 | 1.99E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.88E-02 | 1.99E-03 | 1.99E-02 | 1.32E-01 | 1.83E-03 | 9.66E-01 | 1.62E-01 | 1.13E+00 | 1.13E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 9.79E-04 | 5.27E-03 | 5.48E-02 | 2.72E-01 | 1.01E-02 | 8.75E+00 | 2.79E-01 | 9.03E+00 | 9.04E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 2.18E-03 | 2.24E-03 | 1.06E-02 | 3.13E-03 | 6.45E-05 | 2.49E-01 | 7.55E-03 | 2.57E-01 | 2.57E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 1.15E-02 | 2.07E-03 | 4.95E-02 | 1.65E-01 | 2.57E-03 | 8.00E-01 | 1.79E-01 | 9.79E-01 | 9.82E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-108**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C6, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 6E-01 | 2E-01 | 8E-01 | 3E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Barium** | 6E-01 | 3E-01 | 9E-01 | 5E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 7E-01 | 7E-01 | 6E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **3E+00** | **1E+00** | **5E+00** | **3E+00** | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Mercury** | **9E+00** | **3E+00** | **1E+01** | **4E+00** | **2E+01** | **7E+00** | **2E+01** | **7E+00** |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **6E+00** | **2E+00** | **9E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Hawk - mid** | **tPCB-med** | **2E+00** | 8E-01 | **3E+00** | 9E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 2E-01 | 8E-02 | 6E-02 | 3E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 5E-02 | 5E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 1E-01 | 2E-01 | 1E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 9E-01 | 3E-01 | 9E-01 | 3E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Vanadium** | **1E+00** | 7E-01 | 8E-01 | 4E-01 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Hawk - high** | **tPCB-high** | **2E+01** | **8E+00** | **3E+01** | **1E+01** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | 3E-01 | 9E-02 | 5E-01 | 2E-01 | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 1E-02 | 1E-02 | 9E-02 | 7E-02 | 9E-02 | 8E-02 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 1E-01 | 7E-02 | 3E-03 | 2E-03 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Mercury** | 3E-01 | 2E-01 | 5E-02 | 2E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 2E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Shrew - 2** | **tPCB** | **2E+00** | 7E-01 | 7E-01 | 2E-01 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 5E-01 | 2E-01 | 2E-02 | 9E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 1E-01 | 9E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 2E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 6E-02 | 3E-02 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **3E+00** | **2E+00** | 1E-01 | 5E-02 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 4E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-109**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C6, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.33E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **1.33E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Vanadium** | **1.33E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 2** | **tPCB-mink** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Vanadium** | **1.33E+01** | **4.31E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Raccoon - 1** | **tPCB** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **1.33E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Raccoon - 2** | **tPCB** | **2.59E+00** | **1.68E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Barium** | **7.49E+01** | **2.51E+02** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Chromium** | **1.84E+01** | **5.47E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Cobalt** | **7.10E+00** | **3.43E+01** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Lead** | **2.55E+01** | **7.10E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Vanadium** | **1.33E+01** | **4.31E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |

**Table E3-109**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C6, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| **GBH - mid** | **tPCB-med** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **GBH - high** | **tPCB-high** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |

**Table E3-109**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C6, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.63E-01 | 4.13E-01 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E+00 | 2.04E+01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 1.73E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.96E-01 | 5.06E-01 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 1.03E+01 | 0.00E+00 |
| | **Mercury** | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.12E-02 | 2.81E-01 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.28E-01 | 8.38E-01 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.63E-01 | 4.13E-01 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.28E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 9.62E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.24E-02 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 |
| | **Mercury** | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 8.47E-03 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 4.46E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.18E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 8.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-109**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C6, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 2.69E-03 | 2.66E-05 | 4.55E-01 | 1.65E-01 | 6.20E-01 | 6.20E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E+00 | 4.02E+00 | 2.06E-02 | 2.16E+01 | 9.36E+00 | 3.09E+01 | 3.10E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-01 | 8.76E-01 | 3.06E-03 | 2.02E+00 | 1.22E+00 | 3.25E+00 | 3.25E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-01 | 5.50E-01 | 2.07E-03 | 6.20E-01 | 9.45E-01 | 1.56E+00 | 1.57E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-01 | 1.14E+00 | 1.14E-02 | 1.07E+01 | 1.67E+00 | 1.24E+01 | 1.24E+01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-02 | 1.31E-02 | 7.31E-05 | 3.13E-01 | 4.42E-02 | 3.58E-01 | 3.58E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-01 | 6.91E-01 | 2.91E-03 | 1.05E+00 | 9.18E-01 | 1.97E+00 | 1.97E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 2.69E-03 | 2.66E-05 | 4.55E-01 | 1.65E-01 | 6.20E-01 | 6.20E-01 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.62E-02 | 0.00E+00 | 0.00E+00 | 4.62E-03 | 7.61E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.23E-02 | 0.00E+00 | 5.92E-04 | 7.05E-06 | 2.62E-02 | 7.65E+00 | 7.68E+00 | 7.68E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 | 0.00E+00 | 0.00E+00 | 3.51E-01 | 2.45E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 8.84E-01 | 5.45E-03 | 7.65E-02 | 3.99E+00 | 4.07E+00 | 4.07E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-03 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 7.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 1.93E-01 | 8.10E-04 | 8.25E-03 | 1.08E+00 | 1.08E+00 | 1.09E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 7.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 1.21E-01 | 5.49E-04 | 2.75E-02 | 2.42E-01 | 2.70E-01 | 2.70E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.35E-03 | 0.00E+00 | 0.00E+00 | 5.78E-03 | 9.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 0.00E+00 | 2.50E-01 | 3.03E-03 | 9.35E-03 | 3.75E-01 | 3.85E-01 | 3.88E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-04 | 0.00E+00 | 0.00E+00 | 3.63E-04 | 1.23E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-02 | 0.00E+00 | 2.87E-03 | 1.94E-05 | 2.06E-04 | 1.38E-01 | 1.38E-01 | 1.38E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 1.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 1.52E-01 | 7.70E-04 | 1.10E-02 | 3.62E-01 | 3.73E-01 | 3.74E-01 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.62E-02 | 0.00E+00 | 0.00E+00 | 4.62E-03 | 7.61E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.23E-02 | 0.00E+00 | 5.92E-04 | 7.05E-06 | 2.62E-02 | 7.65E+00 | 7.68E+00 | 7.68E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-01 | 0.00E+00 | 0.00E+00 | 1.17E-02 | 0.00E+00 | 0.00E+00 | 3.74E-01 | 0.00E+00 | 5.89E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.24E-01 | 4.45E-01 | 7.69E-01 | 7.69E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-01 | 0.00E+00 | 0.00E+00 | 1.17E-02 | 0.00E+00 | 0.00E+00 | 3.74E-01 | 0.00E+00 | 5.89E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.24E-01 | 4.45E-01 | 7.69E-01 | 7.69E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.45E-01 | 0.00E+00 | 0.00E+00 | 8.87E-01 | 0.00E+00 | 0.00E+00 | 3.42E-01 | 0.00E+00 | 5.66E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 9.45E-01 | 1.80E+00 | 2.74E+00 | 2.75E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 2.32E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.02E-01 | 3.54E-01 | 4.56E-01 | 4.58E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 2.00E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 3.10E-01 | 6.50E-01 | 6.51E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 0.00E+00 | 0.00E+00 | 2.15E-02 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.16E-01 | 8.91E-02 | 2.05E-01 | 2.11E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.55E-03 | 0.00E+00 | 0.00E+00 | 9.17E-04 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 0.00E+00 | 2.26E-02 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 2.55E-03 | 2.88E-02 | 3.14E-02 | 3.14E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 0.00E+00 | 2.08E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 3.93E-02 | 1.75E-01 | 1.77E-01 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.42E-02 | 0.00E+00 | 0.00E+00 | 5.19E-03 | 0.00E+00 | 0.00E+00 | 1.53E+00 | 0.00E+00 | 6.80E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.42E-02 | 1.54E+00 | 1.59E+00 | 1.59E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.42E-02 | 0.00E+00 | 0.00E+00 | 5.19E-03 | 0.00E+00 | 0.00E+00 | 1.53E+00 | 0.00E+00 | 6.80E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.42E-02 | 1.54E+00 | 1.59E+00 | 1.59E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 3.94E-01 | 0.00E+00 | 0.00E+00 | 1.40E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.29E-01 | 1.90E+00 | 2.02E+00 | 2.04E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 4.73E-01 | 0.00E+00 | 2.68E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.39E-02 | 5.04E-01 | 5.18E-01 | 5.19E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.80E-01 | 9.27E-01 | 9.28E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 6.50E-03 | 0.00E+00 | 0.00E+00 | 8.80E-02 | 0.00E+00 | 6.11E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.58E-02 | 1.04E-01 | 1.20E-01 | 1.27E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.47E-04 | 0.00E+00 | 0.00E+00 | 4.08E-04 | 0.00E+00 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 2.60E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 3.47E-04 | 2.49E-02 | 2.53E-02 | 2.53E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 5.05E-02 | 0.00E+00 | 2.40E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 5.66E-02 | 7.52E-02 | 7.69E-02 |
| **Raccoon - 1** | **tPCB** | 2.58E-04 | 1.24E-02 | 0.00E+00 | 2.12E-02 | 0.00E+00 | 0.00E+00 | 9.14E-03 | 2.71E-02 | 0.00E+00 | 0.00E+00 | 6.56E-02 | 3.69E-03 | 6.52E-03 | 0.00E+00 | 1.30E-05 | 5.80E-02 | 1.06E-01 | 1.64E-01 | 1.64E-01 |
| | **Barium** | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 1.89E-01 | 0.00E+00 | 1.00E-02 | 4.46E+00 | 7.44E-01 | 5.21E+00 | 5.22E+00 |
| | **Chromium** | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 4.64E-02 | 0.00E+00 | 1.49E-03 | 2.05E-01 | 2.69E-02 | 2.32E-01 | 2.34E-01 |
| | **Cobalt** | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 1.79E-02 | 0.00E+00 | 1.01E-03 | 1.25E-01 | 8.34E-02 | 2.08E-01 | 2.09E-01 |
| | **Lead** | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 6.43E-02 | 0.00E+00 | 5.59E-03 | 6.95E-01 | 1.55E-02 | 7.10E-01 | 7.16E-01 |
| | **Mercury** | 7.46E-05 | 8.47E-03 | 0.00E+00 | 1.66E-04 | 0.00E+00 | 0.00E+00 | 7.18E-04 | 4.37E-04 | 0.00E+00 | 0.00E+00 | 9.15E-04 | 1.41E-03 | 5.06E-03 | 0.00E+00 | 3.57E-05 | 2.30E-02 | 3.48E-03 | 2.64E-02 | 2.65E-02 |
| | **Vanadium** | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 3.35E-02 | 0.00E+00 | 1.42E-03 | 9.49E-02 | 1.17E-02 | 1.07E-01 | 1.08E-01 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.59E-02 | 1.47E-03 | 3.31E-02 | 9.14E-03 | 2.84E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-02 | 0.00E+00 | 4.24E-04 | 1.30E-05 | 7.59E-02 | 3.47E-01 | 4.23E-01 | 4.23E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-01 | 4.83E-02 | 1.19E-01 | 6.95E-01 | 9.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 6.33E-01 | 1.00E-02 | 2.21E-01 | 2.05E+00 | 2.27E+00 | 2.28E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-02 | 3.11E-03 | 4.68E-02 | 4.84E-03 | 2.81E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-02 | 0.00E+00 | 1.38E-01 | 1.49E-03 | 2.39E-02 | 2.93E-01 | 3.17E-01 | 3.19E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-02 | 3.58E-03 | 1.35E-02 | 6.97E-02 | 2.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-03 | 0.00E+00 | 8.65E-02 | 1.01E-03 | 7.96E-02 | 3.40E-01 | 4.19E-01 | 4.20E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-02 | 4.83E-03 | 1.56E-02 | 1.15E-02 | 3.38E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 1.79E-01 | 5.59E-03 | 2.71E-02 | 2.60E-01 | 2.87E-01 | 2.92E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.96E-04 | 2.82E-04 | 1.26E-03 | 7.18E-04 | 4.57E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.65E-03 | 0.00E+00 | 2.06E-03 | 3.57E-05 | 5.96E-04 | 1.57E-02 | 1.63E-02 | 1.63E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 | 2.06E-03 | 6.56E-03 | 4.84E-03 | 7.33E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-03 | 0.00E+00 | 1.09E-01 | 1.42E-03 | 3.19E-02 | 1.44E-01 | 1.75E-01 | 1.77E-01 |

**Table E3-109**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C6, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 1E+00 | 3E-01 | 4E-01 | 1E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 2.08E+01 | 4.17E+01 | 1E+00 | 5E-01 | 5E-01 | 2E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 8E-01 | 7E-01 | 5E-01 | 4E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 8E-02 | 8E-02 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **7E+00** | **3E+00** | 1E+00 | 5E-01 | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **1E+01** | **5E+00** | **2E+00** | 7E-01 | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **3E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+01** | **3E+00** | **4E+00** | **1E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **GBH - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 6E-02 | 2E-02 | **2E+01** | **5E+00** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 4E-03 | 2E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 4E-01 | 4E-01 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 3E-02 | 3E-02 | 4E-02 | 3E-02 | 4E-02 | 3E-02 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 9E-03 | 3E-03 | **6E+00** | **2E+00** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | **1E+00** | 5E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| **GBH - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | 6E-01 | 2E-01 | **2E+02** | **6E+01** | **2E+02** | **6E+01** | **2E+02** | **6E+01** |
| **Mink - 1** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | **6E+00** | **3E+00** | **9E+00** | **4E+00** | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | **6E+00** | **--** | **9E+00** | **--** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-02 | 8E-03 | 3E-02 | 1E-02 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 4E-02 | 4E-02 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 | 6E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 3E-02 | 2E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 5E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Mink - 2** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | 9E-01 | 4E-01 | **3E+01** | **2E+01** | **3E+01** | **2E+01** | **3E+01** | **2E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | 9E-01 | **--** | **3E+01** | **--** | **3E+01** | **--** | **3E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 6E-03 | 5E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 2E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 5E-03 | 2E-03 | 3E-01 | 2E-01 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-01 | 9E-02 | 5E-01 | 2E-01 | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 1E-02 | 1E-02 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 1E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 3E-01 | 2E-01 | 5E-02 | 2E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | **2E+00** | 5E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 4E-03 | 2E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-02 | 8E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 5E-02 | 3E-02 | 6E-02 | 4E-02 | 6E-02 | 4E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 6E-02 | 3E-02 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 8E-03 | 4E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-110**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C6, Subarea Soil - North**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **1.83E+00** | **1.68E-01** | 1.00E+01 | 2.16E-02 | NA | 2.16E-02 | 8.64E-01 | -- | 8.64E-01 | 2.80E+01 | 6.60E+01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| | **Mercury** | **1.56E+00** | **8.15E-01** | 8.00E-01 | 5.00E-03 | NA | 5.00E-03 | 1.60E-02 | -- | 1.60E-02 | 4.40E-01 | 8.00E-01 | 4E-02 | 2E-02 | -- | -- | 4E-02 | 2E-02 |
| **Mourning Dove - high** | **tPCB-high** | **1.83E+00** | **1.68E-01** | 1.00E+01 | 2.16E-02 | NA | 2.16E-02 | 8.64E-01 | -- | 8.64E-01 | 2.10E+00 | 4.50E+00 | 4E-01 | 2E-01 | -- | -- | 4E-01 | 2E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.83E+00** | **1.68E-01** | 1.00E+01 | 2.62E-02 | NA | 2.62E-02 | 1.05E+00 | -- | 1.05E+00 | 2.80E+01 | 6.60E+01 | 4E-02 | 2E-02 | -- | -- | 4E-02 | 2E-02 |
| | **Mercury** | **1.56E+00** | **8.15E-01** | 8.00E-01 | 7.74E-03 | NA | 7.75E-03 | 2.48E-02 | -- | 2.48E-02 | 4.40E-01 | 8.00E-01 | 6E-02 | 3E-02 | -- | -- | 6E-02 | 3E-02 |
| **Blue Jay - high** | **tPCB-high** | **1.83E+00** | **1.68E-01** | 1.00E+01 | 2.62E-02 | NA | 2.62E-02 | 1.05E+00 | -- | 1.05E+00 | 2.10E+00 | 4.50E+00 | 5E-01 | 2E-01 | -- | -- | 5E-01 | 2E-01 |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **1.83E+00** | **1.68E-01** | 1.00E+01 | 2.04E-02 | NA | 2.04E-02 | 8.15E-01 | -- | 8.16E-01 | 2.80E+01 | 6.60E+01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| | **Mercury** | **1.56E+00** | **8.15E-01** | 8.00E-01 | 7.27E-03 | NA | 7.27E-03 | 2.33E-02 | -- | 2.33E-02 | 4.40E-01 | 8.00E-01 | 5E-02 | 3E-02 | -- | -- | 5E-02 | 3E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.83E+00** | **1.68E-01** | 1.00E+01 | 2.04E-02 | NA | 2.04E-02 | 8.15E-01 | -- | 8.16E-01 | 2.10E+00 | 4.50E+00 | 4E-01 | 2E-01 | -- | -- | 4E-01 | 2E-01 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.83E+00** | **1.68E-01** | 1.00E+01 | 7.80E-03 | 3.89E-04 | 8.19E-03 | 3.12E-01 | 1.56E-02 | 3.28E-01 | 2.80E+01 | 6.60E+01 | 1E-02 | 5E-03 | 6E-04 | 2E-04 | 1E-02 | 5E-03 |
| | **Mercury** | **1.56E+00** | **8.15E-01** | 8.00E-01 | 3.12E-03 | 2.67E-03 | 5.79E-03 | 9.98E-03 | 8.55E-03 | 1.85E-02 | 4.40E-01 | 8.00E-01 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 4E-02 | 2E-02 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **1.83E+00** | **1.68E-01** | 1.00E+01 | 7.80E-03 | 3.89E-04 | 8.19E-03 | 3.12E-01 | 1.56E-02 | 3.28E-01 | 2.10E+00 | 4.50E+00 | 1E-01 | 7E-02 | 7E-03 | 3E-03 | 2E-01 | 7E-02 |
| **Hawk - mid** | **tPCB-med** | **1.83E+00** | **1.68E-01** | 1.00E+01 | 2.30E-01 | 1.22E-01 | 3.51E-01 | 9.19E+00 | 4.86E+00 | 1.41E+01 | 2.80E+01 | 6.60E+01 | 3E-01 | 1E-01 | 2E-01 | 7E-02 | 5E-01 | 2E-01 |
| | **Mercury** | **1.56E+00** | **8.15E-01** | 8.00E-01 | 1.71E-02 | 1.64E-02 | 3.35E-02 | 5.46E-02 | 5.25E-02 | 1.07E-01 | 4.40E-01 | 8.00E-01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 | 2E-01 | 1E-01 |
| **Hawk - high** | **tPCB-high** | **1.83E+00** | **1.68E-01** | 1.00E+01 | 2.30E-01 | 1.22E-01 | 3.51E-01 | 9.19E+00 | 4.86E+00 | 1.41E+01 | 2.10E+00 | 4.50E+00 | **4E+00** | **2E+00** | **2E+00** | **1E+00** | **7E+00** | **3E+00** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-111**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C6, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **2.72E+00** | **1.68E-01** | 1.00E+01 | 3.12E-02 | NA | 3.12E-02 | 1.25E+00 | -- | 1.25E+00 | 2.80E+01 | 6.60E+01 | 4E-02 | 2E-02 | -- | -- | 4E-02 | 2E-02 |
| | **Mercury** | **2.75E+00** | **8.15E-01** | 8.00E-01 | 8.81E-03 | NA | 8.82E-03 | 2.82E-02 | -- | 2.82E-02 | 4.40E-01 | 8.00E-01 | 6E-02 | 4E-02 | -- | -- | 6E-02 | 4E-02 |
| **Mourning Dove - high** | **tPCB-high** | **2.72E+00** | **1.68E-01** | 1.00E+01 | 3.12E-02 | NA | 3.12E-02 | 1.25E+00 | -- | 1.25E+00 | 2.10E+00 | 4.50E+00 | 6E-01 | 3E-01 | -- | -- | 6E-01 | 3E-01 |
| **Blue Jay - mid** | **tPCB-med** | **2.72E+00** | **1.68E-01** | 1.00E+01 | 3.89E-02 | NA | 3.89E-02 | 1.56E+00 | -- | 1.56E+00 | 2.80E+01 | 6.60E+01 | 6E-02 | 2E-02 | -- | -- | 6E-02 | 2E-02 |
| | **Mercury** | **2.75E+00** | **8.15E-01** | 8.00E-01 | 1.29E-02 | NA | 1.29E-02 | 4.12E-02 | -- | 4.13E-02 | 4.40E-01 | 8.00E-01 | 9E-02 | 5E-02 | -- | -- | 9E-02 | 5E-02 |
| **Blue Jay - high** | **tPCB-high** | **2.72E+00** | **1.68E-01** | 1.00E+01 | 3.89E-02 | NA | 3.89E-02 | 1.56E+00 | -- | 1.56E+00 | 2.10E+00 | 4.50E+00 | 7E-01 | 3E-01 | -- | -- | 7E-01 | 3E-01 |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **2.72E+00** | **1.68E-01** | 1.00E+01 | 3.10E-02 | NA | 3.10E-02 | 1.24E+00 | -- | 1.24E+00 | 2.80E+01 | 6.60E+01 | 4E-02 | 2E-02 | -- | -- | 4E-02 | 2E-02 |
| | **Mercury** | **2.75E+00** | **8.15E-01** | 8.00E-01 | 1.16E-02 | NA | 1.16E-02 | 3.72E-02 | -- | 3.72E-02 | 4.40E-01 | 8.00E-01 | 8E-02 | 5E-02 | -- | -- | 8E-02 | 5E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **2.72E+00** | **1.68E-01** | 1.00E+01 | 3.10E-02 | NA | 3.10E-02 | 1.24E+00 | -- | 1.24E+00 | 2.10E+00 | 4.50E+00 | 6E-01 | 3E-01 | -- | -- | 6E-01 | 3E-01 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **2.72E+00** | **1.68E-01** | 1.00E+01 | 1.18E-02 | 3.89E-04 | 1.22E-02 | 4.73E-01 | 1.56E-02 | 4.89E-01 | 2.80E+01 | 6.60E+01 | 2E-02 | 7E-03 | 6E-04 | 2E-04 | 2E-02 | 7E-03 |
| | **Mercury** | **2.75E+00** | **8.15E-01** | 8.00E-01 | 5.12E-03 | 2.67E-03 | 7.79E-03 | 1.64E-02 | 8.55E-03 | 2.49E-02 | 4.40E-01 | 8.00E-01 | 4E-02 | 2E-02 | 2E-02 | 1E-02 | 6E-02 | 3E-02 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **2.72E+00** | **1.68E-01** | 1.00E+01 | 1.18E-02 | 3.89E-04 | 1.22E-02 | 4.73E-01 | 1.56E-02 | 4.89E-01 | 2.10E+00 | 4.50E+00 | 2E-01 | 1E-01 | 7E-03 | 3E-03 | 2E-01 | 1E-01 |
| **Hawk - mid** | **tPCB-med** | **2.72E+00** | **1.68E-01** | 1.00E+01 | 2.88E-01 | 1.22E-01 | 4.10E-01 | 1.15E+01 | 4.86E+00 | 1.64E+01 | 2.80E+01 | 6.60E+01 | 4E-01 | 2E-01 | 2E-01 | 7E-02 | 6E-01 | 2E-01 |
| | **Mercury** | **2.75E+00** | **8.15E-01** | 8.00E-01 | 3.01E-02 | 1.64E-02 | 4.65E-02 | 9.63E-02 | 5.25E-02 | 1.49E-01 | 4.40E-01 | 8.00E-01 | 2E-01 | 1E-01 | 1E-01 | 7E-02 | 3E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | **2.72E+00** | **1.68E-01** | 1.00E+01 | 2.88E-01 | 1.22E-01 | 4.10E-01 | 1.15E+01 | 4.86E+00 | 1.64E+01 | 2.10E+00 | 4.50E+00 | **5E+00** | **3E+00** | **2E+00** | **1E+00** | **8E+00** | **4E+00** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-112**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C6, Aquatic and Subarea Soil - Riparian**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Tree Swallow - mid** | **tPCB-med** | **2.59E+00** | **1.68E-01** | 1.00E+01 | NA | 4.52E-04 | 4.53E-04 | -- | 1.81E-02 | 1.81E-02 | 2.80E+01 | 6.60E+01 | -- | -- | 6E-04 | 3E-04 | 6E-04 | 3E-04 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | 8.00E-01 | NA | 5.27E-04 | 5.28E-04 | -- | 1.69E-03 | 1.69E-03 | 4.40E-01 | 8.00E-01 | -- | -- | 4E-03 | 2E-03 | 4E-03 | 2E-03 |
| **Tree Swallow - high** | **tPCB-high** | **2.59E+00** | **1.68E-01** | 1.00E+01 | NA | 4.52E-04 | 4.53E-04 | -- | 1.81E-02 | 1.81E-02 | 2.10E+00 | 4.50E+00 | -- | -- | 9E-03 | 4E-03 | 9E-03 | 4E-03 |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.59E+00** | **1.68E-01** | 1.00E+01 | 4.62E-02 | 8.51E-04 | 4.71E-02 | 1.85E+00 | 3.40E-02 | 1.88E+00 | 2.80E+01 | 6.60E+01 | 7E-02 | 3E-02 | 1E-03 | 5E-04 | 7E-02 | 3E-02 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | 8.00E-01 | 1.40E-02 | 1.70E-03 | 1.57E-02 | 4.49E-02 | 5.43E-03 | 5.03E-02 | 4.40E-01 | 8.00E-01 | 1E-01 | 6E-02 | 1E-02 | 7E-03 | 1E-01 | 6E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.59E+00** | **1.68E-01** | 1.00E+01 | 4.62E-02 | 8.51E-04 | 4.71E-02 | 1.85E+00 | 3.40E-02 | 1.88E+00 | 2.10E+00 | 4.50E+00 | 9E-01 | 4E-01 | 2E-02 | 8E-03 | 9E-01 | 4E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **2.59E+00** | **1.68E-01** | 1.00E+01 | NA | 7.03E-02 | 7.03E-02 | -- | 2.81E+00 | 2.81E+00 | 2.80E+01 | 6.60E+01 | -- | -- | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | 8.00E-01 | NA | 5.38E-03 | 5.38E-03 | -- | 1.72E-02 | 1.72E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **2.59E+00** | **1.68E-01** | 1.00E+01 | NA | 7.03E-02 | 7.03E-02 | -- | 2.81E+00 | 2.81E+00 | 2.10E+00 | 4.50E+00 | -- | -- | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **2.59E+00** | **1.68E-01** | 1.00E+01 | NA | 8.63E-02 | 8.63E-02 | -- | 3.45E+00 | 3.45E+00 | 2.80E+01 | 6.60E+01 | -- | -- | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | 8.00E-01 | NA | 8.89E-03 | 8.90E-03 | -- | 2.84E-02 | 2.85E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 6E-02 | 4E-02 | 6E-02 | 4E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **2.59E+00** | **1.68E-01** | 1.00E+01 | NA | 8.63E-02 | 8.63E-02 | -- | 3.45E+00 | 3.45E+00 | 2.10E+00 | 4.50E+00 | -- | -- | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **2.59E+00** | **1.68E-01** | 1.00E+01 | NA | 6.71E-02 | 6.71E-02 | -- | 2.69E+00 | 2.69E+00 | 2.80E+01 | 6.60E+01 | -- | -- | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | 8.00E-01 | NA | 8.25E-03 | 8.26E-03 | -- | 2.64E-02 | 2.64E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **2.59E+00** | **1.68E-01** | 1.00E+01 | NA | 6.71E-02 | 6.71E-02 | -- | 2.69E+00 | 2.69E+00 | 2.10E+00 | 4.50E+00 | -- | -- | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **GBH - mid** | **tPCB-med** | **2.59E+00** | **1.68E-01** | 1.00E+01 | 1.41E-02 | 1.53E+00 | 1.54E+00 | 5.63E-01 | 6.10E+01 | 6.16E+01 | 2.80E+01 | 6.60E+01 | 2E-02 | 9E-03 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | 8.00E-01 | 6.26E-04 | 1.61E-01 | 1.62E-01 | 2.00E-03 | 5.17E-01 | 5.19E-01 | 4.40E-01 | 8.00E-01 | 5E-03 | 3E-03 | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **GBH - high** | **tPCB-high** | **2.59E+00** | **1.68E-01** | 1.00E+01 | 1.41E-02 | 1.53E+00 | 1.54E+00 | 5.63E-01 | 6.10E+01 | 6.16E+01 | 2.10E+00 | 4.50E+00 | 3E-01 | 1E-01 | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| **Osprey - mid** | **tPCB-med** | **2.59E+00** | **1.68E-01** | 1.00E+01 | NA | 4.50E-01 | 4.50E-01 | -- | 1.80E+01 | 1.80E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Mercury** | **2.01E+00** | **8.15E-01** | 8.00E-01 | NA | 4.33E-02 | 4.33E-02 | -- | 1.38E-01 | 1.39E-01 | 4.40E-01 | 8.00E-01 | -- | -- | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| **Osprey - high** | **tPCB-high** | **2.59E+00** | **1.68E-01** | 1.00E+01 | NA | 4.50E-01 | 4.50E-01 | -- | 1.80E+01 | 1.80E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **9E+00** | **4E+00** | **9E+00** | **4E+00** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-113**

**Lower Trophic Level Terrestrial Risk Calculations For MAA**

**Anniston PCB Site, Anniston, Alabama**

| Media | Receptor Community | COPC | Soil EPC (mg/kg) | Toxicity Benchmarks[a] (mg/kg) | | Hazard Quotients | |
|---|---|---|---|---|---|---|---|
| | | | | NOAEL | LOAEL | NOAEL | LOAEL |
| Soil - Combined | **Terrestrial Plants** | **PCB** | 1.41E+00 | 4.00E+01 | NA | 4E-02 | -- |
| | | **Chromium** | 1.90E+01 | 1.00E+00 | NA | **2E+01** | -- |
| | | **Lead** | 4.16E+01 | 1.20E+02 | NA | 3E-01 | -- |
| | | **Mercury** | 8.31E-01 | 3.00E-01 | NA | **3E+00** | -- |
| | | **Vanadium** | 2.52E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 1.41E+00 | 3.60E+00 | 3.60E+01 | 4E-01 | 4E-02 |
| | | **Chromium** | 1.90E+01 | 4.00E-01 | NA | **5E+01** | -- |
| | | **Lead** | 4.16E+01 | 1.70E+03 | NA | 2E-02 | -- |
| | | **Mercury** | 8.31E-01 | 1.00E-01 | 0.23 | **8E+00** | **4E+00** |
| | | **Vanadium** | 2.52E+01 | NA | NA | -- | -- |
| Soil - Riparian | **Terrestrial Plants** | **PCB** | 2.47E+00 | 4.00E+01 | NA | 6E-02 | -- |
| | | **Chromium** | 4.19E+01 | 1.00E+00 | NA | **4E+01** | -- |
| | | **Lead** | 5.27E+01 | 1.20E+02 | NA | 4E-01 | -- |
| | | **Mercury** | 1.42E+00 | 3.00E-01 | NA | **5E+00** | -- |
| | | **Vanadium** | 1.57E+01 | 2.00E+00 | NA | **8E+00** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 2.47E+00 | 3.60E+00 | 3.60E+01 | 7E-01 | 7E-02 |
| | | **Chromium** | 4.19E+01 | 4.00E-01 | NA | **1E+02** | -- |
| | | **Lead** | 5.27E+01 | 1.70E+03 | NA | 3E-02 | -- |
| | | **Mercury** | 1.42E+00 | 1.00E-01 | 0.23 | **1E+01** | **6E+00** |
| | | **Vanadium** | 1.57E+01 | NA | NA | -- | -- |

**Notes:**
a = NOAELs represent chronic values and LOAELs represent acute values
COPC = constituent of potential concern
EPC - exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
NA = not applicable
NOAEL = no observed adverse effect level
OU = Operable Unit
PCB = total polychlorinated biphenyl
**Bold indicates hazard quotients greater than 1**

**Table E3-114**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-114**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | |
|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Tree Swallow - mid** | **tPCB-med** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Tree Swallow - high** | **tPCB-high** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Osprey - mid** | **tPCB-med** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Osprey - high** | **tPCB-high** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Bat** | **tPCB** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Otter** | **tPCB-mink** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 4.17E-01 | 1.14E+00 | 5.34E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 6.92E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.28E-01 | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |

**Table E3-114**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.37E+01 | 4.66E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 4.70E-01 | 1.34E+00 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-114**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 9.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 9.72E-02 | 9.72E-02 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 3.21E+00 | 3.24E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.44E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 1.44E+01 | 1.44E+01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 6.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 6.10E-01 | 6.13E-01 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 3.50E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 3.50E-01 | 3.64E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.60E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 2.60E-02 | 2.61E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 8.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 8.28E-01 | 8.31E-01 | 3.44E-01 | 7.00E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 9.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 9.72E-02 | 9.72E-02 | 4.33E-02 | 1.30E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 7.72E-02 | 0.00E+00 | 4.15E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.43E-02 | 2.66E-05 | 4.25E+00 | 4.25E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 2.04E+01 | 0.00E+00 | 2.04E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.04E+00 | 2.06E-02 | 4.88E+01 | 4.88E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 1.72E+00 | 0.00E+00 | 1.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 3.06E-03 | 5.19E+00 | 5.19E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 3.80E+00 | 0.00E+00 | 3.80E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E+00 | 2.07E-03 | 8.70E+00 | 8.70E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 5.04E+00 | 0.00E+00 | 5.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E+00 | 1.14E-02 | 1.24E+01 | 1.24E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 2.67E-02 | 0.00E+00 | 7.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-02 | 7.31E-05 | 1.29E-01 | 1.29E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 1.68E+00 | 0.00E+00 | 1.68E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E+00 | 2.91E-03 | 4.73E+00 | 4.74E+00 | 3.44E-01 | 7.00E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 7.72E-02 | 0.00E+00 | 4.15E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.43E-02 | 2.66E-05 | 4.25E+00 | 4.25E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E+00 | 0.00E+00 | 0.00E+00 | 2.39E-03 | 1.72E-05 | 2.63E+00 | 2.63E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E+01 | 0.00E+00 | 0.00E+00 | 7.91E-01 | 1.33E-02 | 3.79E+01 | 3.79E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.10E+00 | 0.00E+00 | 0.00E+00 | 1.72E-01 | 1.98E-03 | 5.28E+00 | 5.28E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 1.08E-01 | 1.34E-03 | 3.15E+00 | 3.15E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.44E-01 | 0.00E+00 | 0.00E+00 | 2.24E-01 | 7.40E-03 | 4.67E-01 | 4.75E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.96E-02 | 0.00E+00 | 0.00E+00 | 2.66E-03 | 4.73E-05 | 6.23E-02 | 6.23E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 1.88E-03 | 1.23E+00 | 1.23E+00 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E+00 | 0.00E+00 | 0.00E+00 | 2.39E-03 | 1.72E-05 | 2.63E+00 | 2.63E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.11E-02 | 0.00E+00 | 0.00E+00 | 2.00E+00 | 0.00E+00 | 1.49E-02 | 2.39E-03 | 1.72E-05 | 2.05E+00 | 2.05E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.27E+01 | 0.00E+00 | 0.00E+00 | 2.82E+01 | 0.00E+00 | 2.32E+00 | 7.91E-01 | 1.33E-02 | 7.40E+01 | 7.40E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-01 | 0.00E+00 | 0.00E+00 | 3.88E+00 | 0.00E+00 | 4.76E-01 | 1.72E-01 | 1.98E-03 | 4.65E+00 | 4.66E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.05E-01 | 1.08E-01 | 1.34E-03 | 3.13E+00 | 3.13E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-01 | 0.00E+00 | 0.00E+00 | 1.85E-01 | 0.00E+00 | 2.20E-01 | 2.24E-01 | 7.40E-03 | 9.04E-01 | 9.12E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.41E-03 | 0.00E+00 | 0.00E+00 | 4.53E-02 | 0.00E+00 | 4.18E-03 | 2.66E-03 | 4.73E-05 | 5.76E-02 | 5.76E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.42E-01 | 0.00E+00 | 0.00E+00 | 8.29E-01 | 0.00E+00 | 6.13E-02 | 1.36E-01 | 1.88E-03 | 1.27E+00 | 1.27E+00 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.11E-02 | 0.00E+00 | 0.00E+00 | 2.00E+00 | 0.00E+00 | 1.49E-02 | 2.39E-03 | 1.72E-05 | 2.05E+00 | 2.05E+00 | 4.33E-02 | 1.30E-01 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 1.27E+00 | 1.27E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.24E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 5.24E+00 | 5.25E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.75E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 6.75E-01 | 6.76E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 1.80E-01 | 1.80E-01 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 1.28E-01 | 1.32E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 2.80E-02 | 2.81E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 1.48E-01 | 1.49E-01 | 3.44E-01 | 7.00E-01 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 1.27E+00 | 1.27E+00 | 4.33E-02 | 1.30E-01 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 7.18E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 7.18E-02 | 7.18E-02 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 2.37E+00 | 2.39E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.06E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 1.06E+01 | 1.06E+01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 4.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 4.51E-01 | 4.53E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 2.59E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 2.59E-01 | 2.69E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.92E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 1.92E-02 | 1.93E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 6.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 6.11E-01 | 6.14E-01 | 4.16E+00 | 8.31E+00 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.01E-01 | 2.71E-01 | 1.74E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 7.46E-01 | 7.46E-01 | 5.00E-02 | 1.00E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.01E-01 | 2.71E-01 | 1.74E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 7.46E-01 | 7.46E-01 | na | 5.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E+00 | 4.50E-01 | 2.46E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 4.16E+00 | 4.17E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E-01 | 6.69E-02 | 3.39E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 5.66E-01 | 5.67E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.26E-02 | 1.58E-02 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.60E-01 | 2.61E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E-02 | 1.39E-02 | 1.62E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 6.05E-02 | 6.59E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.64E-03 | 8.68E-03 | 3.96E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 1.93E-02 | 1.93E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.51E-02 | 9.22E-03 | 7.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 1.17E-01 | 1.18E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-114**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 2E-01 | 7E-02 | 2E-01 | 7E-02 |
| | **Barium** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | **5E+00** | **5E+00** | **5E+00** | **5E+00** |
| | **Cobalt** | 8E-02 | 8E-02 | 8E-02 | 8E-02 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Tree Swallow - high** | **tPCB-high** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Barium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Mercury** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | **1E+01** | **7E+00** | **1E+01** | **7E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1E+02** | **3E+01** | **1E+02** | **3E+01** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Barium** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Vanadium** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Kingfisher - 1 - high** | **tPCB-high** | **6E+01** | **2E+01** | **6E+01** | **2E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Mercury** | **3E+00** | 8E-01 | **3E+00** | 8E-01 |
| | **Vanadium** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Kingfisher - 2 - high** | **tPCB-high** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Osprey - mid** | **tPCB-med** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Cobalt** | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Osprey - high** | **tPCB-high** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| **Bat** | **tPCB** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Barium** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | **4E+00** | **4E+00** | **4E+00** | **4E+00** |
| | **Cobalt** | 6E-02 | 5E-02 | 6E-02 | 5E-02 |
| | **Lead** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Mercury** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| **Otter** | **tPCB-mink** | **1E+01** | **7E+00** | **1E+01** | **7E+00** |
| **Otter (Alternative TRV)** | **tPCB-mink** | **--** | **1E+01** | **--** | **1E+01** |
| | **Barium** | 8E-02 | 3E-02 | 8E-02 | 3E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 4E-02 | 3E-02 | 4E-02 | 3E-02 |
| | **Lead** | 1E-02 | 7E-03 | 1E-02 | 7E-03 |
| | **Mercury** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-115**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil |
| **Mourning Dove - mid** | **tPCB-med** | **1.41E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| **Mourning Dove - high** | **tPCB-high** | **1.41E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.41E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Blue Jay - high** | **tPCB-high** | **1.41E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.41E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.41E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Shrew - 1** | **tPCB** | **1.41E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 |
| **Deer** | **tPCB** | **1.41E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Weasel** | **tPCB** | **1.41E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 |
| **Fox - 1** | **tPCB** | **1.41E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 |
| **Fox - 2** | **tPCB** | **1.41E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 |

**Table E3-115**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioaccumulation Factors<br>Terrestrial Plants | Bioaccumulation Factors<br>Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg)<br>Body Weight (kg) |
|---|---|---|---|---|---|---|
| **Mourning Dove - mid** | **tPCB-med** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 |
| | **Mercury** | 5.00E-02 | 1.84E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 1.20E-01 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 1.20E-01 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 1.20E-01 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 |
| **Mourning Dove - high** | **tPCB-high** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 |
| **Blue Jay - mid** | **tPCB-med** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 |
| | **Mercury** | 5.00E-02 | 1.84E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 8.70E-02 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 8.70E-02 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 8.70E-02 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 |
| **Blue Jay - high** | **tPCB-high** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 |
| | **Mercury** | 5.00E-02 | 1.84E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 2.00E-02 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 2.00E-02 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 2.00E-02 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 |
| **Shrew - 1** | **tPCB** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 |
| | **Mercury** | 5.00E-02 | 1.84E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 1.70E-02 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 1.70E-02 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 1.70E-02 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 |
| **Deer** | **tPCB** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 |
| | **Mercury** | 5.00E-02 | 1.84E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 5.66E+01 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 5.66E+01 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 5.66E+01 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 |
| **Weasel** | **tPCB** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 |
| | **Mercury** | 5.00E-02 | 1.84E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 3.00E-01 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 3.00E-01 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 3.00E-01 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 |
| **Fox - 1** | **tPCB** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 |
| | **Mercury** | 5.00E-02 | 1.84E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 4.50E+00 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 4.50E+00 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 4.50E+00 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 |
| **Fox - 2** | **tPCB** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 |
| | **Mercury** | 5.00E-02 | 1.84E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 7.70E-02 | 4.50E+00 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 4.50E+00 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 4.50E+00 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 |

**Table E3-115**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/ Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.15E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.76E-02 | 1.88E-05 | 1.43E-01 | 1.43E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 5.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.63E-02 | 5.16E-05 | 2.22E-02 | 2.22E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.41E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.72E-01 | 2.16E-03 | 6.13E-01 | 6.15E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.17E-01 | 8.08E-03 | 8.35E-01 | 8.43E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.52E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.94E-01 | 2.05E-03 | 5.19E-01 | 5.21E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.15E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.76E-02 | 1.88E-05 | 1.43E-01 | 1.43E-01 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 9.71E-02 | 4.02E-03 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 3.01E-02 | 2.04E-05 | 2.33E-01 | 2.33E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 4.96E-03 | 2.58E-04 | 0.00E+00 | 2.98E-02 | 0.00E+00 | 1.78E-02 | 5.59E-05 | 5.28E-02 | 5.29E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.03E-01 | 1.24E-01 | 0.00E+00 | 2.93E-01 | 0.00E+00 | 4.06E-01 | 2.34E-03 | 1.03E+00 | 1.03E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.56E-02 | 5.77E-03 | 0.00E+00 | 4.63E-01 | 0.00E+00 | 8.91E-01 | 8.75E-03 | 1.38E+00 | 1.38E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.13E-02 | 3.48E-03 | 0.00E+00 | 2.65E-01 | 0.00E+00 | 5.39E-01 | 2.22E-03 | 8.29E-01 | 8.31E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 9.71E-02 | 4.02E-03 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 3.01E-02 | 2.04E-05 | 2.33E-01 | 2.33E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.79E-02 | 2.62E-02 | 2.21E-01 | 4.58E-01 | 0.00E+00 | 4.80E-02 | 4.23E-05 | 7.71E-01 | 7.71E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.11E-04 | 1.68E-03 | 6.48E-02 | 1.34E-01 | 0.00E+00 | 2.84E-02 | 1.16E-04 | 2.30E-01 | 2.30E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.74E-02 | 8.09E-01 | 6.36E-01 | 1.31E+00 | 0.00E+00 | 6.47E-01 | 4.86E-03 | 3.44E+00 | 3.45E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.87E-03 | 3.76E-02 | 1.01E+00 | 2.08E+00 | 0.00E+00 | 1.42E+00 | 1.82E-02 | 4.55E+00 | 4.57E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.92E-03 | 2.27E-02 | 5.77E-01 | 1.19E+00 | 0.00E+00 | 8.59E-01 | 4.62E-03 | 2.65E+00 | 2.66E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.79E-02 | 2.62E-02 | 2.21E-01 | 4.58E-01 | 0.00E+00 | 4.80E-02 | 4.23E-05 | 7.71E-01 | 7.71E-01 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.25E-02 | 7.79E-03 | 2.86E-01 | 1.97E-01 | 0.00E+00 | 5.39E-03 | 2.35E-05 | 5.10E-01 | 5.10E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.37E-04 | 4.99E-04 | 8.38E-02 | 5.78E-02 | 0.00E+00 | 3.19E-03 | 6.45E-05 | 1.46E-01 | 1.46E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.61E-02 | 2.41E-01 | 8.23E-01 | 5.67E-01 | 0.00E+00 | 7.27E-02 | 2.70E-03 | 1.73E+00 | 1.73E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.00E-03 | 1.12E-02 | 1.30E+00 | 8.98E-01 | 0.00E+00 | 1.60E-01 | 1.01E-02 | 2.37E+00 | 2.38E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.74E-03 | 6.73E-03 | 7.46E-01 | 5.14E-01 | 0.00E+00 | 9.65E-02 | 2.57E-03 | 1.37E+00 | 1.37E+00 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.19E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.12E-04 | 1.03E-05 | 1.23E-02 | 1.23E-02 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.09E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.44E-04 | 2.84E-05 | 8.52E-04 | 8.81E-04 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.56E-03 | 1.19E-03 | 3.05E-02 | 3.17E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.91E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-02 | 4.44E-03 | 1.41E-02 | 1.86E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.62E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.38E-03 | 1.13E-03 | 1.00E-02 | 1.11E-02 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-01 | 3.59E-03 | 1.72E-05 | 1.52E-01 | 1.52E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.80E-03 | 2.12E-03 | 4.73E-05 | 5.92E-03 | 5.97E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.36E-01 | 4.84E-02 | 1.98E-03 | 3.85E-01 | 3.87E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.41E-01 | 1.06E-01 | 7.40E-03 | 3.48E-01 | 3.55E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 6.42E-02 | 1.88E-03 | 4.35E-01 | 4.37E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.24E-03 | 0.00E+00 | 9.18E-03 | 0.00E+00 | 7.46E-02 | 1.49E-03 | 1.33E-05 | 9.05E-02 | 9.05E-02 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.67E-04 | 0.00E+00 | 2.69E-03 | 0.00E+00 | 1.91E-03 | 8.81E-04 | 3.66E-05 | 5.75E-03 | 5.78E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.10E-02 | 0.00E+00 | 2.63E-02 | 0.00E+00 | 1.70E-01 | 2.01E-02 | 1.53E-03 | 2.27E-01 | 2.29E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.41E-04 | 0.00E+00 | 4.17E-02 | 0.00E+00 | 1.22E-01 | 4.41E-02 | 5.72E-03 | 2.08E-01 | 2.14E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.15E-03 | 0.00E+00 | 2.39E-02 | 0.00E+00 | 1.87E-01 | 2.67E-02 | 1.45E-03 | 2.39E-01 | 2.40E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.97E-02 | 1.49E-03 | 1.33E-05 | 9.28E-02 | 9.28E-02 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.87E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.30E-03 | 8.81E-04 | 3.66E-05 | 3.26E-03 | 3.30E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.23E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-01 | 2.01E-02 | 1.53E-03 | 2.27E-01 | 2.29E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.47E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-01 | 4.41E-02 | 5.72E-03 | 1.91E-01 | 1.96E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.38E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.67E-02 | 1.45E-03 | 2.52E-01 | 2.53E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-115**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Blue Jay - mid** | **tPCB-med** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| **Shrew - 1** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Chromium** | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Lead** | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| **Deer** | **tPCB** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Mercury** | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 1E-02 | 1E-02 | 1E-02 | 1E-02 |
| | **Lead** | 3E-03 | 2E-03 | 4E-03 | 2E-03 |
| | **Vanadium** | 2E-03 | 1E-03 | 3E-03 | 1E-03 |
| **Weasel** | **tPCB** | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Mercury** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Chromium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 7E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Chromium** | 9E-02 | 8E-02 | 1E-01 | 8E-02 |
| | **Lead** | 4E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 9E-02 | 8E-02 | 1E-01 | 8E-02 |
| | **Lead** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-116**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| Carolina Wren - 2 - mid | tPCB-med | 1.41E+00 | 7.58E-01 | 1.57E-04 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Barium | 8.96E+01 | 2.51E+02 | 1.21E-01 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Chromium | 1.90E+01 | 5.47E+01 | 1.80E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 8.14E+00 | 3.43E+01 | 1.22E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Lead | 4.16E+01 | 7.10E+01 | 6.73E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Mercury | 8.31E-01 | 8.45E-01 | 4.30E-04 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 2.52E+01 | 4.31E+01 | 1.71E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| Carolina wren - 2 - high | tPCB-high | 1.41E+00 | 7.58E-01 | 1.57E-04 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| Hawk - mid | tPCB-med | 1.41E+00 | 7.58E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Barium | 8.96E+01 | 2.51E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Chromium | 1.90E+01 | 5.47E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Cobalt | 8.14E+00 | 3.43E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Lead | 4.16E+01 | 7.10E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Mercury | 8.31E-01 | 8.45E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Vanadium | 2.52E+01 | 4.31E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| Hawk - high | tPCB-high | 1.41E+00 | 7.58E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| Raccoon - 1 | tPCB | 1.41E+00 | 7.58E-01 | 1.57E-04 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Barium | 8.96E+01 | 2.51E+02 | 1.21E-01 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Chromium | 1.90E+01 | 5.47E+01 | 1.80E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Cobalt | 8.14E+00 | 3.43E+01 | 1.22E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Lead | 4.16E+01 | 7.10E+01 | 6.73E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Mercury | 8.31E-01 | 8.45E-01 | 4.30E-04 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Vanadium | 2.52E+01 | 4.31E+01 | 1.71E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| Shrew - 2 | tPCB | 1.41E+00 | 7.58E-01 | 1.57E-04 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Barium | 8.96E+01 | 2.51E+02 | 1.21E-01 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Chromium | 1.90E+01 | 5.47E+01 | 1.80E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Cobalt | 8.14E+00 | 3.43E+01 | 1.22E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Lead | 4.16E+01 | 7.10E+01 | 6.73E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Mercury | 8.31E-01 | 8.45E-01 | 4.30E-04 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Vanadium | 2.52E+01 | 4.31E+01 | 1.71E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-116**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.92E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-116**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.28E-01 | 1.84E-02 | 7.70E-02 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-116**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 | 1.37E+00 | 2.37E+01 | 2.20E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 2.58E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-116**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 6.27E+01 | 2.49E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 6.27E+01 | 2.49E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 6.27E+01 | 2.49E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 6.27E+01 | 2.49E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 6.27E+01 | 2.49E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 6.27E+01 | 2.49E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-116**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 6.94E-03 | 0.00E+00 | 0.00E+00 | 2.21E-01 | 0.00E+00 | 2.62E-02 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 8.12E+00 | 0.00E+00 | 0.00E+00 | 2.68E+00 | 0.00E+00 | 3.85E-01 | 0.00E+00 | 1.55E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 3.38E-01 | 0.00E+00 | 0.00E+00 | 6.36E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 3.79E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.55E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 2.22E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 7.90E-01 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 3.76E-02 | 0.00E+00 | 3.55E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.28E-03 | 0.00E+00 | 0.00E+00 | 6.48E-02 | 0.00E+00 | 1.68E-03 | 0.00E+00 | 1.35E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 3.11E-01 | 0.00E+00 | 0.00E+00 | 5.77E-01 | 0.00E+00 | 2.27E-02 | 0.00E+00 | 2.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 6.94E-03 | 0.00E+00 | 0.00E+00 | 2.21E-01 | 0.00E+00 | 2.62E-02 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.32E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.84E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.46E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 9.61E-03 | 0.00E+00 | 1.63E-02 | 0.00E+00 | 6.41E-04 | 1.63E-02 | 0.00E+00 | 3.55E-03 | 0.00E+00 | 0.00E+00 | 3.63E-03 | 1.06E-02 |
| | **Barium** | 0.00E+00 | 9.20E-01 | 0.00E+00 | 1.97E-01 | 0.00E+00 | 9.41E-03 | 1.97E-01 | 0.00E+00 | 2.68E-02 | 0.00E+00 | 0.00E+00 | 4.97E+00 | 4.38E-02 |
| | **Chromium** | 0.00E+00 | 2.01E-02 | 0.00E+00 | 4.67E-02 | 0.00E+00 | 1.98E-02 | 4.67E-02 | 0.00E+00 | 8.06E-03 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 5.64E-03 |
| | **Cobalt** | 0.00E+00 | 5.46E-03 | 0.00E+00 | 1.87E-02 | 0.00E+00 | 4.95E-02 | 1.87E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.50E-03 |
| | **Lead** | 0.00E+00 | 1.54E-03 | 0.00E+00 | 7.39E-02 | 0.00E+00 | 9.20E-04 | 7.39E-02 | 0.00E+00 | 5.78E-03 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 1.07E-03 |
| | **Mercury** | 0.00E+00 | 4.90E-04 | 0.00E+00 | 4.76E-03 | 0.00E+00 | 4.11E-05 | 4.76E-03 | 0.00E+00 | 9.09E-05 | 0.00E+00 | 0.00E+00 | 6.30E-04 | 2.34E-04 |
| | **Vanadium** | 0.00E+00 | 2.11E-03 | 0.00E+00 | 4.23E-02 | 0.00E+00 | 5.54E-04 | 4.23E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 2.82E-02 | 1.24E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 1.77E-02 | 0.00E+00 | 3.17E-01 | 0.00E+00 | 5.35E-03 | 1.36E-01 | 0.00E+00 | 1.59E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 1.69E+00 | 0.00E+00 | 3.84E+00 | 0.00E+00 | 7.85E-02 | 1.64E+00 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 3.70E-02 | 0.00E+00 | 9.11E-01 | 0.00E+00 | 1.65E-01 | 3.89E-01 | 0.00E+00 | 3.62E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 1.01E-02 | 0.00E+00 | 3.66E-01 | 0.00E+00 | 4.13E-01 | 1.56E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.84E-03 | 0.00E+00 | 1.44E+00 | 0.00E+00 | 7.67E-03 | 6.16E-01 | 0.00E+00 | 2.60E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 9.03E-04 | 0.00E+00 | 9.29E-02 | 0.00E+00 | 3.43E-04 | 3.97E-02 | 0.00E+00 | 4.09E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 3.88E-03 | 0.00E+00 | 8.27E-01 | 0.00E+00 | 4.62E-03 | 3.53E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-116**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-02 | 0.00E+00 | 4.23E-05 | 2.96E-01 | 2.34E-01 | 5.30E-01 | 5.30E-01 | 4.67E-01 | 1.40E+00 | 6E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.06E+00 | 0.00E+00 | 3.27E-02 | 6.12E+00 | 2.36E+01 | 2.98E+01 | 2.98E+01 | 2.08E+01 | 4.17E+01 | 3E-01 | 1E-01 | **1E+00** | 6E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.47E-01 | 0.00E+00 | 4.86E-03 | 2.09E+00 | 4.13E+00 | 6.22E+00 | 6.23E+00 | 2.66E+00 | 2.80E+00 | 8E-01 | 7E-01 | **2E+00** | **1E+00** |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 3.29E-03 | 2.56E+00 | 2.99E+00 | 5.54E+00 | 5.55E+00 | 7.61E+00 | 7.80E+00 | 3E-01 | 3E-01 | 4E-01 | 4E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E+00 | 0.00E+00 | 1.82E-02 | 2.46E+00 | 4.34E+00 | 6.80E+00 | 6.82E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 8E-01 | **3E+00** | **1E+00** |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.84E-02 | 0.00E+00 | 1.16E-04 | 9.48E-02 | 1.37E-01 | 2.31E-01 | 2.32E-01 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.59E-01 | 0.00E+00 | 4.62E-03 | 1.46E+00 | 2.35E+00 | 3.81E+00 | 3.82E+00 | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **7E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-02 | 0.00E+00 | 4.23E-05 | 2.96E-01 | 2.34E-01 | 5.30E-01 | 5.30E-01 | 4.33E-02 | 1.30E-01 | **7E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 4.95E-01 | 0.00E+00 | 6.42E-03 | 3.46E-03 | 8.93E-06 | 1.80E-01 | 4.99E-01 | 6.79E-01 | 6.79E-01 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | **1E+00** | 4E-01 |
| | **Barium** | 0.00E+00 | 6.94E-01 | 0.00E+00 | 4.09E-01 | 1.15E+00 | 6.90E-03 | 1.72E+00 | 1.84E+00 | 3.57E+00 | 3.57E+00 | 2.08E+01 | 4.17E+01 | 8E-02 | 4E-02 | 9E-02 | 4E-02 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 8.66E-02 | 2.50E-01 | 1.03E-03 | 4.82E-01 | 3.44E-01 | 8.26E-01 | 8.27E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 3.72E-02 | 1.57E-01 | 6.95E-04 | 1.13E+00 | 3.92E-01 | 1.52E+00 | 1.52E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 5E-02 | 5E-02 |
| | **Lead** | 0.00E+00 | 6.59E-02 | 0.00E+00 | 1.90E-01 | 3.24E-01 | 3.84E-03 | 4.74E-01 | 3.90E-01 | 8.64E-01 | 8.68E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | 0.00E+00 | 1.13E-02 | 0.00E+00 | 3.80E-03 | 3.86E-03 | 2.45E-05 | 8.26E-03 | 1.51E-02 | 2.34E-02 | 2.34E-02 | 2.27E-02 | 6.80E-02 | 4E-01 | 1E-01 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.15E-01 | 1.97E-01 | 9.75E-04 | 5.51E-01 | 2.91E-01 | 8.42E-01 | 8.43E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 8E-01 | 4E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 4.95E-01 | 0.00E+00 | 6.42E-03 | 3.46E-03 | 8.93E-06 | 1.80E-01 | 4.99E-01 | 6.79E-01 | 6.79E-01 | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **1E+01** | **4E+00** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 2.55E-02 | 1.52E-03 | 3.55E-03 | 0.00E+00 | 1.30E-05 | 4.98E-02 | 4.13E-02 | 9.11E-02 | 9.11E-02 | 2.30E-01 | 6.80E-01 | 2E-01 | 7E-02 | 2E-01 | 6E-02 |
| | **Barium** | 0.00E+00 | 3.58E-02 | 2.37E-01 | 2.26E-01 | 0.00E+00 | 1.00E-02 | 1.58E+00 | 5.29E+00 | 6.86E+00 | 6.87E+00 | 5.18E+01 | 1.21E+02 | 3E-02 | 1E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 4.87E-02 | 4.78E-02 | 0.00E+00 | 1.49E-03 | 1.89E-01 | 7.37E-02 | 2.63E-01 | 2.64E-01 | 2.40E+00 | 2.82E+00 | 8E-02 | 7E-02 | 3E-02 | 3E-02 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 1.08E-02 | 2.05E-02 | 0.00E+00 | 1.01E-03 | 1.35E-01 | 9.41E-02 | 2.29E-01 | 2.30E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 9E-03 |
| | **Lead** | 0.00E+00 | 3.39E-03 | 2.25E-02 | 1.05E-01 | 0.00E+00 | 5.59E-03 | 2.61E-01 | 5.90E-02 | 3.20E-01 | 3.26E-01 | 4.70E+00 | 8.90E+00 | 6E-02 | 3E-02 | 1E-02 | 7E-03 |
| | **Mercury** | 0.00E+00 | 5.81E-04 | 4.27E-04 | 2.10E-03 | 0.00E+00 | 3.57E-05 | 1.22E-02 | 1.87E-03 | 1.41E-02 | 1.41E-02 | 7.50E-02 | 1.50E-01 | 2E-01 | 8E-02 | 2E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 6.26E-03 | 6.35E-02 | 0.00E+00 | 1.42E-03 | 1.60E-01 | 4.05E-02 | 2.00E-01 | 2.02E-01 | 4.16E+00 | 8.31E+00 | 4E-02 | 2E-02 | 1E-02 | 5E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 6.08E-02 | 2.42E-03 | 5.39E-03 | 2.91E-03 | 2.35E-05 | 4.97E-01 | 6.61E-02 | 5.63E-01 | 5.63E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 7E-01 | 3E-01 | 1E-01 |
| | **Barium** | 0.00E+00 | 8.52E-02 | 3.77E-01 | 3.43E-01 | 9.62E-01 | 1.82E-02 | 7.72E+00 | 1.42E+00 | 9.14E+00 | 9.16E+00 | 5.18E+01 | 1.21E+02 | 1E-01 | 6E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 7.73E-02 | 7.27E-02 | 2.10E-01 | 2.70E-03 | 1.61E+00 | 2.99E-01 | 1.91E+00 | 1.91E+00 | 2.40E+00 | 2.82E+00 | 7E-01 | 6E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 1.71E-02 | 3.12E-02 | 1.32E-01 | 1.83E-03 | 1.08E+00 | 1.77E-01 | 1.25E+00 | 1.26E+00 | 7.33E+00 | 1.00E+01 | 1E-01 | 1E-01 | 2E-02 | 2E-02 |
| | **Lead** | 0.00E+00 | 8.08E-03 | 3.57E-02 | 1.60E-01 | 2.72E-01 | 1.01E-02 | 2.26E+00 | 3.16E-01 | 2.57E+00 | 2.58E+00 | 4.70E+00 | 8.90E+00 | 5E-01 | 3E-01 | 7E-02 | 4E-02 |
| | **Mercury** | 0.00E+00 | 1.38E-03 | 6.78E-04 | 3.19E-03 | 3.24E-03 | 6.45E-05 | 1.37E-01 | 5.30E-03 | 1.43E-01 | 1.43E-01 | 7.50E-02 | 1.50E-01 | **2E+00** | 9E-01 | 7E-02 | 4E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 9.94E-03 | 9.65E-02 | 1.65E-01 | 2.57E-03 | 1.32E+00 | 1.87E-01 | 1.51E+00 | 1.51E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 2E-01 | 4E-02 | 2E-02 |

**Table E3-116**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Lead** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Mercury** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Vanadium** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Hawk - mid** | **tPCB-med** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Barium** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Mercury** | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Hawk - high** | **tPCB-high** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| **Raccoon - 1** | **tPCB** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Barium** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 7E-02 | 4E-02 | 7E-02 | 4E-02 |
| | **Mercury** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Vanadium** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Barium** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Mercury** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-117**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**MAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| **Raccoon - 2** | **tPCB** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-117**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**MAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Barium** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Lead** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Barium** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Chromium** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Cobalt** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Lead** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Mercury** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Vanadium** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table E3-117**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**MAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | |
|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **GBH - mid** | **tPCB-med** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |
| **GBH - high** | **tPCB-high** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Mink - 1** | **tPCB-mink** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |
| **Mink - 2** | **tPCB-mink** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |
| **Raccoon - 1** | **tPCB** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |
| **Raccoon - 2** | **tPCB** | 4.17E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.14E+00 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 6.92E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |

**Table E3-117**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**MAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.28E-01 | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| **GBH - mid** | **tPCB-med** | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.28E-01 | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **GBH - high** | **tPCB-high** | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| **Mink - 1** | **tPCB-mink** | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.28E-01 | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Mink - 2** | **tPCB-mink** | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.28E-01 | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 1** | **tPCB** | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.28E-01 | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 2** | **tPCB** | 5.34E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 4.73E+00 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.28E-01 | 1.84E-02 | 7.70E-02 | 1.00E+00 | 2.58E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |

**Table E3-117**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**MAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Forage Fish | Reptiles | Amphibians |
| Spotted Sandpiper - 1 - mid | tPCB-med | 1.37E+00 | 2.37E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 |
| | Barium | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | Chromium | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | Lead | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |
| Spotted Sandpiper - 1 - high | tPCB-high | 1.37E+00 | 2.37E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 |
| GBH - mid | tPCB-med | 1.37E+00 | 2.37E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 |
| | Barium | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | Chromium | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | Lead | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |
| GBH - high | tPCB-high | 1.37E+00 | 2.37E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 |
| Mink - 1 | tPCB-mink | 1.37E+00 | 2.37E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 1.37E+00 | 2.37E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 |
| | Barium | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | Chromium | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | Lead | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |
| Mink - 2 | tPCB-mink | 1.37E+00 | 2.37E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 1.37E+00 | 2.37E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 |
| | Barium | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | Chromium | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | Lead | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |
| Raccoon - 1 | tPCB | 1.37E+00 | 2.37E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 |
| | Barium | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | Chromium | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | Lead | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |
| Raccoon - 2 | tPCB | 1.37E+00 | 2.37E+01 | 2.20E+01 | 6.27E+01 | 2.49E+00 |
| | Barium | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | Chromium | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | Cobalt | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | Lead | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | Mercury | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 4.70E-01 | 4.48E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | Vanadium | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |

**Table E3-117**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**MAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 7.72E-02 | 9.83E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.04E+01 | 9.98E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.72E+00 | 3.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.80E+00 | 6.57E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.04E+00 | 3.10E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.67E-02 | 2.26E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.68E+00 | 8.76E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 7.72E-02 | 9.83E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.56E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.56E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.83E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 7.62E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.78E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.89E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 7.02E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.54E-02 | 0.00E+00 | 2.96E-02 | 0.00E+00 | 1.12E-03 | 2.96E-02 | 0.00E+00 |
| | **Barium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.41E+00 | 0.00E+00 | 3.01E-01 | 0.00E+00 | 1.44E-02 | 3.01E-01 | 0.00E+00 |
| | **Chromium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.45E-02 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 1.98E-02 | 1.03E-01 | 0.00E+00 |
| | **Cobalt** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.77E-03 | 0.00E+00 | 1.98E-02 | 0.00E+00 | 4.95E-02 | 1.98E-02 | 0.00E+00 |
| | **Lead** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.95E-03 | 0.00E+00 | 9.35E-02 | 0.00E+00 | 1.17E-03 | 9.35E-02 | 0.00E+00 |
| | **Mercury** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 8.36E-04 | 0.00E+00 | 6.80E-03 | 0.00E+00 | 7.01E-05 | 6.80E-03 | 0.00E+00 |
| | **Vanadium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.32E-03 | 0.00E+00 | 2.64E-02 | 0.00E+00 | 3.46E-04 | 2.64E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.69E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 7.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.64E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.67E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 6.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-117**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**MAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.95E-02 | 1.21E-02 | 2.66E-05 | 1.02E+00 | 8.93E-02 | 1.11E+00 | 1.11E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.20E+00 | 4.02E+00 | 2.06E-02 | 1.22E+01 | 2.44E+01 | 3.66E+01 | 3.66E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.71E-01 | 8.76E-01 | 3.06E-03 | 4.09E+00 | 2.60E+00 | 6.69E+00 | 6.69E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 5.50E-01 | 2.07E-03 | 7.95E-01 | 4.35E+00 | 5.15E+00 | 5.15E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.44E-01 | 1.14E+00 | 1.14E-02 | 3.95E+00 | 6.18E+00 | 1.01E+01 | 1.01E+01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.27E-02 | 1.35E-02 | 7.31E-05 | 2.48E-01 | 4.03E-02 | 2.89E-01 | 2.89E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.52E-01 | 6.91E-01 | 2.91E-03 | 1.13E+00 | 2.37E+00 | 3.50E+00 | 3.50E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.95E-02 | 1.21E-02 | 2.66E-05 | 1.02E+00 | 8.93E-02 | 1.11E+00 | 1.11E+00 |
| **GBH - mid** | **tPCB-med** | 5.96E-03 | 0.00E+00 | 0.00E+00 | 1.83E-03 | 2.98E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 2.67E-03 | 7.05E-06 | 5.96E-03 | 2.99E+00 | 3.00E+00 | 3.00E+00 |
| | **Barium** | 5.08E-02 | 0.00E+00 | 0.00E+00 | 2.51E+00 | 1.23E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.08E+00 | 0.00E+00 | 8.84E-01 | 5.45E-03 | 5.08E-02 | 1.77E+01 | 1.78E+01 | 1.78E+01 |
| | **Chromium** | 2.21E-02 | 0.00E+00 | 0.00E+00 | 7.38E-03 | 1.58E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.26E-01 | 0.00E+00 | 1.93E-01 | 8.10E-04 | 2.21E-02 | 2.21E+00 | 2.23E+00 | 2.23E+00 |
| | **Cobalt** | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 4.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.42E-02 | 0.00E+00 | 1.21E-01 | 5.49E-04 | 2.75E-02 | 6.72E-01 | 6.99E-01 | 7.00E-01 |
| | **Lead** | 9.06E-03 | 0.00E+00 | 0.00E+00 | 1.62E-02 | 3.01E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E-01 | 0.00E+00 | 2.50E-01 | 3.03E-03 | 9.06E-03 | 7.64E-01 | 7.73E-01 | 7.76E-01 |
| | **Mercury** | 1.92E-04 | 0.00E+00 | 0.00E+00 | 3.18E-04 | 6.57E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E-03 | 0.00E+00 | 2.98E-03 | 1.94E-05 | 1.92E-04 | 7.27E-02 | 7.29E-02 | 7.29E-02 |
| | **Vanadium** | 1.10E-02 | 0.00E+00 | 0.00E+00 | 1.42E-02 | 3.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.48E-02 | 0.00E+00 | 1.52E-01 | 7.70E-04 | 1.10E-02 | 5.68E-01 | 5.79E-01 | 5.80E-01 |
| **GBH - high** | **tPCB-high** | 5.96E-03 | 0.00E+00 | 0.00E+00 | 1.83E-03 | 2.98E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 2.67E-03 | 7.05E-06 | 5.96E-03 | 2.99E+00 | 3.00E+00 | 3.00E+00 |
| **Mink - 1** | **tPCB-mink** | 7.37E-02 | 0.00E+00 | 0.00E+00 | 4.63E-03 | 0.00E+00 | 0.00E+00 | 1.73E-01 | 0.00E+00 | 2.43E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 7.37E-02 | 2.02E-01 | 2.76E-01 | 2.76E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 7.37E-02 | 0.00E+00 | 0.00E+00 | 4.63E-03 | 0.00E+00 | 0.00E+00 | 1.73E-01 | 0.00E+00 | 2.43E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 7.37E-02 | 2.02E-01 | 2.76E-01 | 2.76E-01 |
| | **Barium** | 6.28E-01 | 0.00E+00 | 0.00E+00 | 6.34E+00 | 0.00E+00 | 0.00E+00 | 2.45E+00 | 0.00E+00 | 3.79E+00 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 6.28E-01 | 1.26E+01 | 1.32E+01 | 1.32E+01 |
| | **Chromium** | 2.73E-01 | 0.00E+00 | 0.00E+00 | 1.87E-02 | 0.00E+00 | 0.00E+00 | 3.36E-01 | 0.00E+00 | 7.77E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 2.73E-01 | 1.13E+00 | 1.41E+00 | 1.41E+00 |
| | **Cobalt** | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 1.72E-01 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 4.62E-01 | 8.02E-01 | 8.03E-01 |
| | **Lead** | 1.12E-01 | 0.00E+00 | 0.00E+00 | 4.09E-02 | 0.00E+00 | 0.00E+00 | 1.61E-02 | 0.00E+00 | 3.59E-01 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.12E-01 | 4.16E-01 | 5.28E-01 | 5.35E-01 |
| | **Mercury** | 2.37E-03 | 0.00E+00 | 0.00E+00 | 8.04E-04 | 0.00E+00 | 0.00E+00 | 3.93E-03 | 0.00E+00 | 6.82E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 2.37E-03 | 1.16E-02 | 1.39E-02 | 1.40E-02 |
| | **Vanadium** | 1.36E-01 | 0.00E+00 | 0.00E+00 | 3.60E-02 | 0.00E+00 | 0.00E+00 | 7.19E-02 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 2.08E-01 | 3.44E-01 | 3.46E-01 |
| **Mink - 2** | **tPCB-mink** | 1.01E-02 | 0.00E+00 | 0.00E+00 | 2.06E-03 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 2.81E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.01E-02 | 7.15E-01 | 7.25E-01 | 7.25E-01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.01E-02 | 0.00E+00 | 0.00E+00 | 2.06E-03 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 2.81E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 1.01E-02 | 7.15E-01 | 7.25E-01 | 7.25E-01 |
| | **Barium** | 8.56E-02 | 0.00E+00 | 0.00E+00 | 2.82E+00 | 0.00E+00 | 0.00E+00 | 1.00E+01 | 0.00E+00 | 4.37E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 8.56E-02 | 1.35E+01 | 1.35E+01 | 1.36E+01 |
| | **Chromium** | 3.72E-02 | 0.00E+00 | 0.00E+00 | 8.29E-03 | 0.00E+00 | 0.00E+00 | 1.38E+00 | 0.00E+00 | 8.97E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 3.72E-02 | 1.48E+00 | 1.52E+00 | 1.52E+00 |
| | **Cobalt** | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 1.98E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.98E-01 | 9.44E-01 | 9.46E-01 |
| | **Lead** | 1.53E-02 | 0.00E+00 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 0.00E+00 | 6.58E-02 | 0.00E+00 | 4.14E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.53E-02 | 1.43E-01 | 1.58E-01 | 1.65E-01 |
| | **Mercury** | 3.24E-04 | 0.00E+00 | 0.00E+00 | 3.57E-04 | 0.00E+00 | 0.00E+00 | 1.61E-02 | 0.00E+00 | 7.87E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 3.24E-04 | 1.73E-02 | 1.76E-02 | 1.76E-02 |
| | **Vanadium** | 1.85E-02 | 0.00E+00 | 0.00E+00 | 1.60E-02 | 0.00E+00 | 0.00E+00 | 2.94E-01 | 0.00E+00 | 1.15E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 3.29E-01 | 3.47E-01 | 3.49E-01 |
| **Raccoon - 1** | **tPCB** | 4.82E-03 | 0.00E+00 | 0.00E+00 | 3.63E-03 | 1.06E-02 | 0.00E+00 | 0.00E+00 | 2.55E-02 | 1.52E-03 | 6.22E-03 | 0.00E+00 | 1.30E-05 | 9.68E-02 | 4.13E-02 | 1.38E-01 | 1.38E-01 |
| | **Barium** | 4.10E-02 | 0.00E+00 | 0.00E+00 | 4.97E+00 | 4.38E-02 | 0.00E+00 | 0.00E+00 | 3.58E-02 | 2.37E-01 | 3.45E-01 | 0.00E+00 | 1.00E-02 | 2.41E+00 | 5.29E+00 | 7.70E+00 | 7.71E+00 |
| | **Chromium** | 1.78E-02 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 5.64E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 4.87E-02 | 1.06E-01 | 0.00E+00 | 1.49E-03 | 3.94E-01 | 7.37E-02 | 4.68E-01 | 4.69E-01 |
| | **Cobalt** | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.50E-03 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.08E-02 | 2.17E-02 | 0.00E+00 | 1.01E-03 | 1.39E-01 | 9.41E-02 | 2.33E-01 | 2.34E-01 |
| | **Lead** | 7.32E-03 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 1.07E-03 | 0.00E+00 | 0.00E+00 | 3.39E-03 | 2.25E-02 | 1.33E-01 | 0.00E+00 | 5.59E-03 | 3.30E-01 | 5.90E-02 | 3.89E-01 | 3.95E-01 |
| | **Mercury** | 1.55E-04 | 0.00E+00 | 0.00E+00 | 6.30E-04 | 2.34E-04 | 0.00E+00 | 0.00E+00 | 5.81E-04 | 4.27E-04 | 3.57E-03 | 0.00E+00 | 3.57E-05 | 1.82E-02 | 1.87E-03 | 2.01E-02 | 2.02E-02 |
| | **Vanadium** | 8.89E-03 | 0.00E+00 | 0.00E+00 | 2.82E-02 | 1.24E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 6.26E-03 | 3.96E-02 | 0.00E+00 | 1.42E-03 | 1.03E-01 | 4.05E-02 | 1.43E-01 | 1.45E-01 |
| **Raccoon - 2** | **tPCB** | 1.73E-02 | 3.75E-02 | 1.25E-02 | 3.63E-03 | 1.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.09E-03 | 0.00E+00 | 1.91E-03 | 1.30E-05 | 1.73E-02 | 1.74E-01 | 1.91E-01 | 1.91E-01 |
| | **Barium** | 1.47E-01 | 1.84E-01 | 6.99E-01 | 4.97E+00 | 4.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.49E-01 | 0.00E+00 | 6.33E-01 | 1.00E-02 | 1.47E-01 | 9.58E+00 | 9.73E+00 | 9.74E+00 |
| | **Chromium** | 6.39E-02 | 1.55E-02 | 2.42E-01 | 1.46E-02 | 5.90E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-01 | 0.00E+00 | 1.38E-01 | 1.49E-03 | 6.39E-02 | 7.34E-01 | 7.98E-01 | 7.99E-01 |
| | **Cobalt** | 7.96E-02 | 3.44E-02 | 2.02E-01 | 6.97E-02 | 1.57E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.31E-02 | 0.00E+00 | 8.65E-02 | 1.01E-03 | 7.96E-02 | 6.10E-01 | 6.89E-01 | 6.90E-01 |
| | **Lead** | 2.62E-02 | 4.56E-02 | 2.57E-01 | 3.21E-02 | 1.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.99E-02 | 0.00E+00 | 1.79E-01 | 5.59E-03 | 2.62E-02 | 7.80E-01 | 8.06E-01 | 8.11E-01 |
| | **Mercury** | 5.56E-04 | 6.80E-04 | 7.60E-04 | 6.30E-04 | 2.45E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 0.00E+00 | 2.13E-03 | 3.57E-05 | 5.56E-04 | 8.63E-03 | 9.18E-03 | 9.22E-03 |
| | **Vanadium** | 3.19E-02 | 1.52E-02 | 8.32E-02 | 2.82E-02 | 1.30E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E-02 | 0.00E+00 | 1.09E-01 | 1.42E-03 | 3.19E-02 | 3.38E-01 | 3.70E-01 | 3.71E-01 |

**Table E3-117**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**MAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **2E+00** | 7E-01 | 2E-01 | 6E-02 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Barium** | 2.08E+01 | 4.17E+01 | 6E-01 | 3E-01 | **1E+00** | 6E-01 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | **2E+00** | **1E+00** | 1E+00 | 9E-01 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 6E-01 | 6E-01 | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **2E+00** | **1E+00** | **4E+00** | **2E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **1E+01** | **4E+00** | **2E+00** | 6E-01 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **7E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **2E+01** | **8E+00** | **2E+00** | 7E-01 | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| **GBH - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 1E-02 | 4E-03 | **6E+00** | **2E+00** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 2E-03 | 1E-03 | 9E-01 | 4E-01 | 9E-01 | 4E-01 | 9E-01 | 4E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 8E-03 | 8E-03 | 8E-01 | 8E-01 | 8E-01 | 8E-01 | 8E-01 | 8E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 9E-02 | 9E-02 | 9E-02 | 9E-02 | 9E-02 | 9E-02 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 8E-03 | 3E-03 | **3E+00** | **1E+00** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | **2E+00** | 8E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **GBH - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | 1E-01 | 5E-02 | **7E+01** | **2E+01** | **7E+01** | **2E+01** | **7E+01** | **2E+01** |
| **Mink - 1** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | **1E+00** | 7E-01 | **4E+00** | **2E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | -- | **1E+00** | -- | **4E+00** | -- | **6E+00** | -- | **6E+00** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 1E-02 | 5E-03 | 2E-01 | 1E-01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 5E-01 | 4E-01 | 6E-01 | 5E-01 | 6E-01 | 5E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 6E-02 | 5E-02 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 9E-02 | 5E-02 | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 3E-02 | 2E-02 | 2E-01 | 8E-02 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 5E-02 | 3E-02 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| **Mink - 2** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | 2E-01 | 1E-01 | **1E+01** | **7E+00** | **1E+01** | **7E+00** | **1E+01** | **7E+00** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | -- | 2E-01 | -- | **1E+01** | -- | **1E+01** | -- | **1E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-03 | 7E-04 | 3E-01 | 1E-01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 2E-02 | 1E-02 | 6E-01 | 5E-01 | 6E-01 | 5E-01 | 6E-01 | 5E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 4E-03 | 2E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 8E-02 | 4E-02 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 2E-01 | 6E-02 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 5E-02 | 2E-02 | 1E-01 | 4E-02 | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 2E-01 | 1E-01 | 3E-02 | 3E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 9E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 7E-02 | 4E-02 | 1E-02 | 7E-03 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 2E-01 | 1E-01 | 2E-02 | 1E-02 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 1E-02 | 5E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | 8E-02 | 3E-02 | 8E-01 | 3E-01 | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 3E-03 | 1E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 3E-02 | 2E-02 | 3E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 8E-02 | 6E-02 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 7E-03 | 4E-03 | 1E-01 | 6E-02 | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 8E-02 | 4E-02 | 9E-02 | 4E-02 | 9E-02 | 4E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-118**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-118**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 9.78E-01 | 1.83E+00 | 8.06E-01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 2.58E-01 | 3.50E-01 | 1.88E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-118**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.93E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 1.93E-01 | 1.93E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 2.72E+00 | 2.75E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 3.21E+00 | 3.21E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 6.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 6.82E-02 | 7.07E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 1.62E-01 | 1.76E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 4.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 4.51E-02 | 4.52E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 1.40E-01 | 1.44E-01 | 3.44E-01 | 7.00E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.93E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 1.93E-01 | 1.93E-01 | 4.33E-02 | 1.30E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 1.63E-01 | 0.00E+00 | 1.63E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.43E-02 | 2.66E-05 | 3.50E-01 | 3.50E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 5.34E+00 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.04E+00 | 2.06E-02 | 1.87E+01 | 1.87E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 3.44E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 3.06E-03 | 2.44E+00 | 2.44E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 3.96E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E+00 | 2.07E-03 | 1.89E+00 | 1.89E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 5.34E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E+00 | 1.14E-02 | 3.34E+00 | 3.36E+00 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 3.12E-02 | 0.00E+00 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-02 | 7.31E-05 | 8.94E-02 | 8.95E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 2.28E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E+00 | 2.91E-03 | 1.84E+00 | 1.84E+00 | 3.44E-01 | 7.00E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 1.63E-01 | 0.00E+00 | 1.63E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.43E-02 | 2.66E-05 | 3.50E-01 | 3.50E-01 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.67E+00 | 0.00E+00 | 0.00E+00 | 2.39E-03 | 1.72E-05 | 5.68E+00 | 5.68E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E+00 | 0.00E+00 | 0.00E+00 | 7.91E-01 | 1.33E-02 | 5.98E+00 | 6.00E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 0.00E+00 | 0.00E+00 | 1.72E-01 | 1.98E-03 | 1.92E+00 | 1.93E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 1.08E-01 | 1.34E-03 | 3.15E+00 | 3.15E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 2.24E-01 | 7.40E-03 | 5.50E-01 | 5.57E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.07E-02 | 0.00E+00 | 0.00E+00 | 2.66E-03 | 4.73E-05 | 8.34E-02 | 8.34E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 1.88E-03 | 3.23E-01 | 3.25E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.67E+00 | 0.00E+00 | 0.00E+00 | 2.39E-03 | 1.72E-05 | 5.68E+00 | 5.68E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.85E-02 | 0.00E+00 | 0.00E+00 | 4.31E+00 | 0.00E+00 | 3.61E-02 | 2.39E-03 | 1.72E-05 | 4.43E+00 | 4.43E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E+00 | 0.00E+00 | 0.00E+00 | 3.95E+00 | 0.00E+00 | 3.47E-01 | 7.91E-01 | 1.33E-02 | 1.11E+01 | 1.11E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.33E+00 | 0.00E+00 | 1.42E-01 | 1.72E-01 | 1.98E-03 | 1.69E+00 | 1.69E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.23E-02 | 1.08E-01 | 1.34E-03 | 3.03E+00 | 3.03E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-02 | 0.00E+00 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 3.25E-02 | 2.24E-01 | 7.40E-03 | 6.02E-01 | 6.10E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 6.13E-02 | 0.00E+00 | 1.38E-02 | 2.66E-03 | 4.73E-05 | 8.40E-02 | 8.40E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 1.28E-02 | 1.36E-01 | 1.88E-03 | 3.32E-01 | 3.34E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.85E-02 | 0.00E+00 | 0.00E+00 | 4.31E+00 | 0.00E+00 | 3.61E-02 | 2.39E-03 | 1.72E-05 | 4.43E+00 | 4.43E+00 | 4.33E-02 | 1.30E-01 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.25E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 3.25E+00 | 3.25E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 1.04E+00 | 1.05E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 3.22E-01 | 3.23E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 3.21E-02 | 3.28E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 3.86E-02 | 4.21E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 5.24E-02 | 5.24E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 8.39E-02 | 8.48E-02 | 3.44E-01 | 7.00E-01 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.25E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 3.25E+00 | 3.25E+00 | 4.33E-02 | 1.30E-01 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 1.43E-01 | 1.43E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 2.01E+00 | 2.03E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 2.37E+00 | 2.37E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 5.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 5.03E-02 | 5.23E-02 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 1.20E-01 | 1.30E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 3.33E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 3.33E-02 | 3.34E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 1.03E-01 | 1.06E-01 | 4.16E+00 | 8.31E+00 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.70E-01 | 7.32E-01 | 3.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.88E+00 | 1.88E+00 | 5.00E-02 | 1.00E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.70E-01 | 7.32E-01 | 3.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.88E+00 | 1.88E+00 | na | 5.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 1.17E-01 | 3.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 7.09E-01 | 7.19E-01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-02 | 1.46E-02 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 2.07E-01 | 2.08E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E-03 | 3.49E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.13E-01 | 2.14E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.15E-03 | 1.64E-03 | 2.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 3.24E-02 | 3.79E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-02 | 1.22E-02 | 5.36E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 3.00E-02 | 3.00E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-02 | 1.14E-03 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 3.34E-02 | 3.48E-02 | 4.16E+00 | 8.31E+00 |

**Table E3-118**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Barium** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 9E-03 | 9E-03 | 9E-03 | 9E-03 |
| | **Lead** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Barium** | 9E-01 | 4E-01 | 9E-01 | 4E-01 |
| | **Chromium** | 9E-01 | 9E-01 | 9E-01 | 9E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 9E-01 | 5E-01 | 9E-01 | 5E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Barium** | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Chromium** | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 1E+00 | 5E-01 | 1E+00 | 5E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | **1E+02** | **3E+01** | **1E+02** | **3E+01** |
| **Osprey - mid** | **tPCB-med** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Barium** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 4E-03 | 4E-03 | 4E-03 | 4E-03 |
| | **Lead** | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | **7E+01** | **2E+01** | **7E+01** | **2E+01** |
| **Bat** | **tPCB** | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 1E+00 | 8E-01 | 1E+00 | 8E-01 |
| | **Cobalt** | 7E-03 | 5E-03 | 7E-03 | 5E-03 |
| | **Lead** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | **4E+01** | **2E+01** | **4E+01** | **2E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | **--** | **4E+01** | **--** | **4E+01** |
| | **Barium** | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 7E-03 | 4E-03 | 8E-03 | 4E-03 |
| | **Mercury** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 8E-03 | 4E-03 | 8E-03 | 4E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-119**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) |
| **Mourning Dove - mid** | **tPCB-med** | **1.41E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 | 1.20E-01 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 | 1.20E-01 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 1.20E-01 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 1.20E-01 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 1.20E-01 |
| **Mourning Dove - high** | **tPCB-high** | **1.41E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 | 1.20E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.41E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 | 8.70E-02 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 | 8.70E-02 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 8.70E-02 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 8.70E-02 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 8.70E-02 |
| **Blue Jay - high** | **tPCB-high** | **1.41E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 | 8.70E-02 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.41E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 | 2.00E-02 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 | 2.00E-02 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 2.00E-02 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 2.00E-02 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 2.00E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.41E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 | 2.00E-02 |
| **Shrew - 1** | **tPCB** | **1.41E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 | 1.70E-02 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 | 1.70E-02 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 1.70E-02 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 1.70E-02 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 1.70E-02 |
| **Deer** | **tPCB** | **1.41E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 | 5.66E+01 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 | 5.66E+01 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 5.66E+01 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 5.66E+01 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 5.66E+01 |
| **Weasel** | **tPCB** | **1.41E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 | 3.00E-01 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 | 3.00E-01 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 3.00E-01 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 3.00E-01 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 3.00E-01 |
| **Fox - 1** | **tPCB** | **1.41E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 | 4.50E+00 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 | 4.50E+00 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 4.50E+00 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 4.50E+00 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 4.50E+00 |
| **Fox - 2** | **tPCB** | **1.41E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 4.64E+00 | 1.49E+01 | 4.50E+00 |
| | **Mercury** | **8.31E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 2.78E-02 | 3.16E+00 | 1.17E-01 | 4.50E+00 |
| | **Chromium** | **1.90E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 4.50E+00 |
| | **Lead** | **4.16E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 4.50E+00 |
| | **Vanadium** | **2.52E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 4.50E+00 |

**Table E3-119**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water |
| **Mourning Dove - mid** | **tPCB-med** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.76E-02 | 1.88E-05 | 8.93E-02 | 8.93E-02 |
| | **Mercury** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.63E-02 | 5.16E-05 | 2.48E-02 | 2.48E-02 |
| | **Chromium** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.72E-01 | 2.16E-03 | 7.11E-01 | 7.13E-01 |
| | **Lead** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.17E-01 | 8.08E-03 | 8.31E-01 | 8.40E-01 |
| | **Vanadium** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.94E-01 | 2.05E-03 | 5.11E-01 | 5.13E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.76E-02 | 1.88E-05 | 8.93E-02 | 8.93E-02 |
| **Blue Jay - mid** | **tPCB-med** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 7.81E-02 | 0.00E+00 | 0.00E+00 | 3.01E-02 | 2.04E-05 | 1.62E-01 | 1.62E-01 |
| | **Mercury** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 4.68E-04 | 0.00E+00 | 5.31E-02 | 0.00E+00 | 0.00E+00 | 1.78E-02 | 5.59E-05 | 7.85E-02 | 7.86E-02 |
| | **Chromium** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 4.06E-01 | 2.34E-03 | 1.14E+00 | 1.15E+00 |
| | **Lead** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 0.00E+00 | 8.91E-01 | 8.75E-03 | 2.85E+00 | 2.86E+00 |
| | **Vanadium** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 5.39E-01 | 2.22E-03 | 7.15E-01 | 7.18E-01 |
| **Blue Jay - high** | **tPCB-high** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 7.81E-02 | 0.00E+00 | 0.00E+00 | 3.01E-02 | 2.04E-05 | 1.62E-01 | 1.62E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.70E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 4.80E-02 | 4.23E-05 | 5.88E-01 | 5.88E-01 |
| | **Mercury** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 3.05E-03 | 1.15E-01 | 2.39E-01 | 0.00E+00 | 0.00E+00 | 2.84E-02 | 1.16E-04 | 3.87E-01 | 3.87E-01 |
| | **Chromium** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 6.47E-01 | 4.86E-03 | 3.69E+00 | 3.69E+00 |
| | **Lead** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 1.42E+00 | 1.82E-02 | 1.44E+01 | 1.44E+01 |
| | **Vanadium** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 8.59E-01 | 4.62E-03 | 1.94E+00 | 1.94E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.70E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 4.80E-02 | 4.23E-05 | 5.88E-01 | 5.88E-01 |
| **Shrew - 1** | **tPCB** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.70E-03 | 3.13E-03 | 2.19E-01 | 1.51E-01 | 0.00E+00 | 0.00E+00 | 5.39E-03 | 2.35E-05 | 3.86E-01 | 3.86E-01 |
| | **Mercury** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 9.06E-04 | 1.49E-01 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 3.19E-03 | 6.45E-05 | 2.57E-01 | 2.57E-01 |
| | **Chromium** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 0.00E+00 | 7.27E-02 | 2.70E-03 | 1.90E+00 | 1.90E+00 |
| | **Lead** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 0.00E+00 | 1.60E-01 | 1.01E-02 | 9.41E+00 | 9.42E+00 |
| | **Vanadium** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 0.00E+00 | 9.65E-02 | 2.57E-03 | 8.57E-01 | 8.60E-01 |
| **Deer** | **tPCB** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.40E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.12E-04 | 1.03E-05 | 6.82E-03 | 6.83E-03 |
| | **Mercury** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.44E-04 | 2.84E-05 | 1.12E-03 | 1.15E-03 |
| | **Chromium** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.56E-03 | 1.19E-03 | 4.07E-02 | 4.19E-02 |
| | **Lead** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-02 | 4.44E-03 | 1.37E-02 | 1.81E-02 |
| | **Vanadium** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.38E-03 | 1.13E-03 | 9.16E-03 | 1.03E-02 |
| **Weasel** | **tPCB** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.84E-01 | 3.59E-03 | 1.72E-05 | 8.88E-01 | 8.88E-01 |
| | **Mercury** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.95E-03 | 2.12E-03 | 4.73E-05 | 9.07E-03 | 9.11E-03 |
| | **Chromium** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 4.84E-02 | 1.98E-03 | 3.27E-01 | 3.29E-01 |
| | **Lead** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 1.06E-01 | 7.40E-03 | 4.22E-01 | 4.29E-01 |
| | **Vanadium** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 6.42E-02 | 1.88E-03 | 4.35E-01 | 4.37E-01 |
| **Fox - 1** | **tPCB** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.81E-03 | 0.00E+00 | 7.03E-03 | 0.00E+00 | 0.00E+00 | 4.46E-01 | 1.49E-03 | 1.33E-05 | 4.57E-01 | 4.57E-01 |
| | **Mercury** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 4.78E-03 | 0.00E+00 | 0.00E+00 | 3.50E-03 | 8.81E-04 | 3.66E-05 | 9.55E-03 | 9.59E-03 |
| | **Chromium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.01E-02 | 1.53E-03 | 2.05E-01 | 2.07E-01 |
| | **Lead** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 4.41E-02 | 5.72E-03 | 3.79E-01 | 3.85E-01 |
| | **Vanadium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 2.67E-02 | 1.45E-03 | 2.29E-01 | 2.30E-01 |
| **Fox - 2** | **tPCB** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.27E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.36E-01 | 1.49E-03 | 1.33E-05 | 5.38E-01 | 5.38E-01 |
| | **Mercury** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.21E-03 | 8.81E-04 | 3.66E-05 | 5.20E-03 | 5.24E-03 |
| | **Chromium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 2.01E-02 | 1.53E-03 | 1.93E-01 | 1.95E-01 |
| | **Lead** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 4.41E-02 | 5.72E-03 | 2.35E-01 | 2.41E-01 |
| | **Vanadium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.67E-02 | 1.45E-03 | 2.52E-01 | 2.53E-01 |

**Table E3-119**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 2E-01 | 6E-02 | 2E-01 | 6E-02 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| **Blue Jay - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Blue Jay - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Chromium** | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | 1.63E+00 | 3.26E+00 | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Shrew - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | 4.70E+00 | 8.90E+00 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 1E-02 | 7E-03 | 2E-02 | 8E-03 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 4E-03 | 2E-03 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-03 | 1E-03 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | 2.30E-01 | 6.80E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 5E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 7E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concer
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight pe
LOAEL = lowest observed adverse effe
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect l
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients grea**

**Table E3-120**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores |
| Carolina Wren - 2 - mid | tPCB-med | 1.41E+00 | 7.58E-01 | 1.57E-04 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | Barium | 8.96E+01 | 2.51E+02 | 1.21E-01 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | Chromium | 1.90E+01 | 5.47E+01 | 1.80E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | Cobalt | 8.14E+00 | 3.43E+01 | 1.22E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | Lead | 4.16E+01 | 7.10E+01 | 6.73E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | Mercury | 8.31E-01 | 8.45E-01 | 4.30E-04 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | Vanadium | 2.52E+01 | 4.31E+01 | 1.71E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| Carolina wren - 2 - high | tPCB-high | 1.41E+00 | 7.58E-01 | 1.57E-04 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| Hawk - mid | tPCB-med | 1.41E+00 | 7.58E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 8.96E+01 | 2.51E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 1.90E+01 | 5.47E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 8.14E+00 | 3.43E+01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 4.16E+01 | 7.10E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 8.31E-01 | 8.45E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 2.52E+01 | 4.31E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hawk - high | tPCB-high | 1.41E+00 | 7.58E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 1.41E+00 | 7.58E-01 | 1.57E-04 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | Barium | 8.96E+01 | 2.51E+02 | 1.21E-01 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | Chromium | 1.90E+01 | 5.47E+01 | 1.80E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | Cobalt | 8.14E+00 | 3.43E+01 | 1.22E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | Lead | 4.16E+01 | 7.10E+01 | 6.73E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | Mercury | 8.31E-01 | 8.45E-01 | 4.30E-04 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | Vanadium | 2.52E+01 | 4.31E+01 | 1.71E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| Shrew - 2 | tPCB | 1.41E+00 | 7.58E-01 | 1.57E-04 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | Barium | 8.96E+01 | 2.51E+02 | 1.21E-01 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | Chromium | 1.90E+01 | 5.47E+01 | 1.80E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | Cobalt | 8.14E+00 | 3.43E+01 | 1.22E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | Lead | 4.16E+01 | 7.10E+01 | 6.73E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | Mercury | 8.31E-01 | 8.45E-01 | 4.30E-04 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | Vanadium | 2.52E+01 | 4.31E+01 | 1.71E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |

**Table E3-120**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| Carolina Wren - 2 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| Carolina wren - 2 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| Hawk - mid | tPCB-med | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Barium | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Chromium | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Cobalt | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Lead | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Mercury | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Vanadium | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| Hawk - high | tPCB-high | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| Raccoon - 1 | tPCB | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Barium | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Chromium | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Cobalt | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Lead | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Mercury | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Vanadium | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| Shrew - 2 | tPCB | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Barium | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Chromium | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Cobalt | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Lead | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Mercury | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Vanadium | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |

**Table E3-120**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| **Hawk - mid** | **tPCB-med** | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Hawk - high** | **tPCB-high** | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| **Raccoon - 1** | **tPCB** | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Shrew - 2** | **tPCB** | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 |
| | **Barium** | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 |
| | **Vanadium** | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |

**Table E3-120**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| Carolina Wren - 2 - mid | tPCB-med | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Barium | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Chromium | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Cobalt | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Lead | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Mercury | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Vanadium | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| Carolina wren - 2 - high | tPCB-high | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| Hawk - mid | tPCB-med | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Barium | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Chromium | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Cobalt | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Lead | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Mercury | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Vanadium | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| Hawk - high | tPCB-high | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| Raccoon - 1 | tPCB | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Barium | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Chromium | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Cobalt | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Lead | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Mercury | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Vanadium | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| Shrew - 2 | tPCB | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Barium | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Chromium | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Cobalt | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Lead | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Mercury | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Vanadium | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-120**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 5.66E-03 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 3.05E-03 | 0.00E+00 | 2.39E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.15E-02 | 0.00E+00 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.16E-03 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.24E-02 | 0.00E+00 | 2.58E-04 | 1.24E-02 | 0.00E+00 | 2.12E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 7.06E-04 | 0.00E+00 | 8.47E-03 | 0.00E+00 | 7.46E-05 | 8.47E-03 | 0.00E+00 | 1.66E-04 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 9.50E-03 | 0.00E+00 | 2.43E-01 | 0.00E+00 | 2.15E-03 | 1.04E-01 | 0.00E+00 | 9.52E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-03 | 0.00E+00 | 1.66E-01 | 0.00E+00 | 6.22E-04 | 7.07E-02 | 0.00E+00 | 7.48E-04 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 |

**Table E3-120**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| Carolina Wren - 2 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-02 | 0.00E+00 | 4.23E-05 | 2.28E-01 | 3.72E-01 | 6.00E-01 | 6.00E-01 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.06E+00 | 0.00E+00 | 3.27E-02 | 1.24E+01 | 1.88E+01 | 3.12E+01 | 3.13E+01 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.47E-01 | 0.00E+00 | 4.86E-03 | 2.17E+00 | 1.54E+00 | 3.70E+00 | 3.71E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 3.29E-03 | 2.51E+00 | 1.19E+00 | 3.70E+00 | 3.70E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E+00 | 0.00E+00 | 1.82E-02 | 5.68E+00 | 8.90E+00 | 1.46E+01 | 1.46E+01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.84E-02 | 0.00E+00 | 1.16E-04 | 1.47E-01 | 2.44E-01 | 3.91E-01 | 3.91E-01 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.59E-01 | 0.00E+00 | 4.62E-03 | 1.23E+00 | 7.53E-01 | 1.98E+00 | 1.98E+00 |
| Carolina wren - 2 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-02 | 0.00E+00 | 4.23E-05 | 2.28E-01 | 3.72E-01 | 6.00E-01 | 6.00E-01 |
| Hawk - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E+00 | 0.00E+00 | 6.42E-03 | 3.46E-03 | 8.93E-06 | 1.05E+00 | 1.28E+00 | 2.32E+00 | 2.32E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 4.09E-01 | 1.15E+00 | 6.90E-03 | 3.44E+00 | 1.25E+00 | 4.69E+00 | 4.70E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 8.66E-02 | 2.50E-01 | 1.03E-03 | 4.14E-01 | 3.44E-01 | 7.57E-01 | 7.58E-01 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00 | 3.72E-02 | 1.57E-01 | 6.95E-04 | 1.13E+00 | 3.91E-01 | 1.52E+00 | 1.52E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.98E-03 | 0.00E+00 | 1.90E-01 | 3.24E-01 | 3.84E-03 | 5.61E-01 | 3.32E-01 | 8.93E-01 | 8.97E-01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-02 | 0.00E+00 | 3.80E-03 | 3.86E-03 | 2.45E-05 | 1.20E-02 | 2.16E-02 | 3.36E-02 | 3.36E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.15E-01 | 1.97E-01 | 9.75E-04 | 5.51E-01 | 2.91E-01 | 8.42E-01 | 8.43E-01 |
| Hawk - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E+00 | 0.00E+00 | 6.42E-03 | 3.46E-03 | 8.93E-06 | 1.05E+00 | 1.28E+00 | 2.32E+00 | 2.32E+00 |
| Raccoon - 1 | tPCB | 9.14E-03 | 2.71E-02 | 0.00E+00 | 0.00E+00 | 6.56E-02 | 3.69E-03 | 3.55E-03 | 0.00E+00 | 1.30E-05 | 5.50E-02 | 1.06E-01 | 1.61E-01 | 1.61E-01 |
| | Barium | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 2.26E-01 | 0.00E+00 | 1.00E-02 | 4.50E+00 | 7.44E-01 | 5.24E+00 | 5.25E+00 |
| | Chromium | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 4.78E-02 | 0.00E+00 | 1.49E-03 | 2.07E-01 | 2.69E-02 | 2.34E-01 | 2.35E-01 |
| | Cobalt | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.05E-02 | 0.00E+00 | 1.01E-03 | 1.27E-01 | 8.34E-02 | 2.11E-01 | 2.12E-01 |
| | Lead | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 1.05E-01 | 0.00E+00 | 5.59E-03 | 7.35E-01 | 1.55E-02 | 7.51E-01 | 7.56E-01 |
| | Mercury | 7.18E-04 | 4.37E-04 | 0.00E+00 | 0.00E+00 | 9.15E-04 | 1.41E-03 | 2.10E-03 | 0.00E+00 | 3.57E-05 | 2.00E-02 | 3.48E-03 | 2.35E-02 | 2.35E-02 |
| | Vanadium | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 6.35E-02 | 0.00E+00 | 1.42E-03 | 1.25E-01 | 1.17E-02 | 1.37E-01 | 1.38E-01 |
| Shrew - 2 | tPCB | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-01 | 5.86E-03 | 5.39E-03 | 2.91E-03 | 2.35E-05 | 4.59E-01 | 1.65E-01 | 6.24E-01 | 6.24E-01 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-02 | 5.62E-02 | 3.43E-01 | 9.62E-01 | 1.82E-02 | 2.34E+01 | 1.03E+00 | 2.44E+01 | 2.44E+01 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.31E-02 | 7.27E-02 | 2.10E-01 | 2.70E-03 | 1.77E+00 | 2.44E-01 | 2.02E+00 | 2.02E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 1.99E-03 | 3.12E-02 | 1.32E-01 | 1.83E-03 | 9.77E-01 | 1.62E-01 | 1.14E+00 | 1.14E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-04 | 5.27E-03 | 1.60E-01 | 2.72E-01 | 1.01E-02 | 8.85E+00 | 2.79E-01 | 9.13E+00 | 9.14E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.18E-03 | 2.24E-03 | 3.19E-03 | 3.24E-03 | 6.45E-05 | 2.42E-01 | 7.66E-03 | 2.50E-01 | 2.50E-01 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.07E-03 | 9.65E-02 | 1.65E-01 | 2.57E-03 | 8.47E-01 | 1.79E-01 | 1.03E+00 | 1.03E+00 |

**Table E3-120**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**MAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 5E-01 | 2E-01 | 8E-01 | 3E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 2.08E+01 | 4.17E+01 | 6E-01 | 3E-01 | 9E-01 | 5E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 8E-01 | 8E-01 | 6E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **3E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **6E+00** | **2E+00** | **1E+01** | **4E+00** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **2E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **5E+00** | **2E+00** | **9E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Hawk - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **2E+00** | 7E-01 | **3E+00** | 9E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 2E-01 | 8E-02 | 6E-02 | 3E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 2E-01 | 1E-01 | 1E-01 | 1E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 5E-02 | 5E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 3E-01 | 2E-01 | 2E-01 | 1E-01 | 5E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 5E-01 | 2E-01 | 1E+00 | 3E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 8E-01 | 4E-01 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Hawk - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **2E+01** | **8E+00** | **3E+01** | **1E+01** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | 2E-01 | 8E-02 | 5E-01 | 2E-01 | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 1E-02 | 1E-02 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 3E-01 | 1E-01 | 5E-02 | 2E-02 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+00** | 7E-01 | 7E-01 | 2E-01 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 5E-01 | 2E-01 | 2E-02 | 9E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 7E-01 | 6E-01 | 1E-01 | 9E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-01 | 1E-01 | 2E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 4.70E+00 | 8.90E+00 | **2E+00** | 1E+00 | 6E-02 | 3E-02 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | **3E+00** | **2E+00** | 1E-01 | 5E-02 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-01 | 1E-01 | 4E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-121**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**MAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | | | | Percent Diet (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Soil EPC (mg/kg)** | **Sediment EPC (mg/kg)** | **Water EPC (mg/L)** | **Aquatic Plants** | **Terrestrial Plants** | **Benthic Invertebrates (odonata larvae)** | **Soil Invertebrates (worms)** | **Aquatic Emergent Insects** | **Terrestrial Insects (Grasshoppers)** | **Terrestrial Spiders / Detritivores** | **Riparian Spiders / Detritivores** | **Small mammals/birds** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 2** | **tPCB-mink** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Raccoon - 1** | **tPCB** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| **Raccoon - 2** | **tPCB** | **2.47E+00** | **7.58E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Barium** | **1.37E+02** | **2.51E+02** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Chromium** | **4.19E+01** | **5.47E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Cobalt** | **8.60E+00** | **3.43E+01** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Lead** | **5.27E+01** | **7.10E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Vanadium** | **1.57E+01** | **4.31E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |

**Table E3-121**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**MAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Percent Diet (%) | | | | | | | | | | Measured Tissue (mg/kg dry weight) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** | **Fish (all sizes)** | **Predator Fish** | **Forage Fish** | **Reptiles** | **Amphibians** | **Soil** | **Sediment** | **Aquatic Plants** | **Terrestrial Plants** | **Benthic Invertebrates (odonata larvae)** | **Soil Invertebrates (Worms / Spiders / Detritivores)** | **Aquatic Emergent Insects** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |
| **Raccoon - 2** | **tPCB** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 9.78E-01 | 4.37E-01 | 1.83E+00 | 4.64E+00 | 8.06E-01 |
| | **Barium** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 2.58E-01 | 5.98E-02 | 3.50E-01 | 3.16E+00 | 1.88E-01 |
| | **Vanadium** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |

**Table E3-121**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**MAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Terrestrial Insects** | **Terrestrial Spiders / Detritivores** | **Riparian Spiders / Detritivores** | **Small mammals/birds** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** | **Fish (all sizes)** | **Predator Fish** | **Forage Fish** | **Reptiles** | **Amphibians** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **GBH - mid** | **tPCB-med** | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **GBH - high** | **tPCB-high** | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **Mink - 1** | **tPCB-mink** | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Mink - 2** | **tPCB-mink** | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Raccoon - 1** | **tPCB** | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Raccoon - 2** | **tPCB** | 9.60E-02 | 4.64E+00 | 4.64E+00 | 1.49E+01 | 1.83E+00 | 9.48E+00 | 2.62E+00 | 4.60E+01 | 9.54E+01 | 3.60E+01 | 1.22E+02 | 4.58E+00 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 2.78E-02 | 3.16E+00 | 3.16E+00 | 1.17E-01 | 3.50E-01 | 3.60E-01 | 2.06E-01 | 7.41E-01 | 1.59E+00 | 5.12E-01 | 1.71E+00 | 1.76E+00 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |

**Table E3-121**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**MAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Body Weight (kg)** | **Food Ingestion Rate** | **Soil Ingestion** | **Sediment Ingestion Rate** | **Water Ingestion Rate** | **Aquatic Plants** | **Terrestrial Plants** | **Benthic Invertebrates (odonata larvae)** | **Soil Invertebrates (worms)** | **Aquatic Emergent Insects** | **Terrestrial Insects** | **Terrestrial Spiders / Detritivores** | **Riparian Spiders / Detritivores** | **Small mammals/ birds** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** | **Fish (all sizes)** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.63E-01 | 4.13E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E+00 | 2.04E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 1.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.96E-01 | 5.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 1.03E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.12E-02 | 2.81E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.28E-01 | 8.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.63E-01 | 4.13E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.62E-02 | 0.00E+00 | 0.00E+00 | 4.62E-03 | 7.61E+00 |
| | **Barium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 | 0.00E+00 | 0.00E+00 | 3.51E-01 | 2.45E+00 |
| | **Chromium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-03 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 7.54E-01 |
| | **Cobalt** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 7.53E-02 |
| | **Lead** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.35E-03 | 0.00E+00 | 0.00E+00 | 5.78E-03 | 9.05E-02 |
| | **Mercury** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-04 | 0.00E+00 | 0.00E+00 | 3.63E-04 | 1.23E-01 |
| | **Vanadium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 1.97E-01 |
| **GBH - high** | **tPCB-high** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.62E-02 | 0.00E+00 | 0.00E+00 | 4.62E-03 | 7.61E+00 |
| **Mink - 1** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-01 | 0.00E+00 | 0.00E+00 | 1.17E-02 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-01 | 0.00E+00 | 0.00E+00 | 1.17E-02 | 0.00E+00 |
| | **Barium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.45E-01 | 0.00E+00 | 0.00E+00 | 8.87E-01 | 0.00E+00 |
| | **Chromium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 |
| | **Cobalt** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 |
| | **Lead** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 0.00E+00 |
| | **Mercury** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.55E-03 | 0.00E+00 | 0.00E+00 | 9.17E-04 | 0.00E+00 |
| | **Vanadium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.42E-02 | 0.00E+00 | 0.00E+00 | 5.19E-03 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.42E-02 | 0.00E+00 | 0.00E+00 | 5.19E-03 | 0.00E+00 |
| | **Barium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 3.94E-01 | 0.00E+00 |
| | **Chromium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 |
| | **Cobalt** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 |
| | **Lead** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 6.50E-03 | 0.00E+00 |
| | **Mercury** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.28E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.47E-04 | 0.00E+00 | 0.00E+00 | 4.08E-04 | 0.00E+00 |
| | **Vanadium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 9.62E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.24E-02 | 0.00E+00 | 2.58E-04 | 1.24E-02 | 0.00E+00 | 2.12E-02 | 0.00E+00 | 0.00E+00 | 9.14E-03 | 2.71E-02 |
| | **Barium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 |
| | **Chromium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 |
| | **Cobalt** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 |
| | **Lead** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 |
| | **Mercury** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 8.47E-03 | 0.00E+00 | 7.46E-05 | 8.47E-03 | 0.00E+00 | 1.66E-04 | 0.00E+00 | 0.00E+00 | 7.18E-04 | 4.37E-04 |
| | **Vanadium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 |
| **Raccoon - 2** | **tPCB** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 4.46E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.59E-02 | 1.47E-03 | 3.31E-02 | 9.14E-03 | 2.84E-01 |
| | **Barium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-01 | 4.83E-02 | 1.19E-01 | 6.95E-01 | 9.12E-02 |
| | **Chromium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-02 | 3.11E-03 | 4.68E-02 | 4.84E-03 | 2.81E-02 |
| | **Cobalt** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-02 | 3.58E-03 | 1.35E-02 | 6.97E-02 | 2.81E-03 |
| | **Lead** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-02 | 4.83E-03 | 1.56E-02 | 1.15E-02 | 3.38E-03 |
| | **Mercury** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.18E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.96E-04 | 2.82E-04 | 1.26E-03 | 7.18E-04 | 4.57E-03 |
| | **Vanadium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 8.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 | 2.06E-03 | 6.56E-03 | 4.84E-03 | 7.33E-03 |

**Table E3-121**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**MAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Predator Fish** | **Forage Fish** | **Reptiles** | **Amphibians** | **Soil** | **Sediment** | **Water** | **Soil + Prey** | **Sediment + Prey** | **Soil + Sediment + Prey** | **Soil + Sediment + Prey + Water** | **NOAEL TRV** | **LOAEL TRV** | **Soil NOAEL HQ (excluding water)** | **Soil LOAEL HQ (excluding water)** | **Sediment NOAEL HQ (excluding water)** | **Sediment LOAEL HQ (excluding water)** | **NOAEL HQ (excluding water)** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.95E-02 | 1.21E-02 | 2.66E-05 | 4.53E-01 | 1.75E-01 | 6.27E-01 | 6.27E-01 | 4.67E-01 | 1.40E+00 | 1E+00 | 3E-01 | 4E-01 | 1E-01 | **1E+00** |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.20E+00 | 4.02E+00 | 2.06E-02 | 2.26E+01 | 9.36E+00 | 3.19E+01 | 3.20E+01 | 2.08E+01 | 4.17E+01 | **1E+00** | 5E-01 | 5E-01 | 2E-01 | **2E+00** |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.71E-01 | 8.76E-01 | 3.06E-03 | 2.40E+00 | 1.22E+00 | 3.62E+00 | 3.62E+00 | 2.66E+00 | 2.80E+00 | 9E-01 | 9E-01 | 5E-01 | 4E-01 | **1E+00** |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 5.50E-01 | 2.07E-03 | 6.44E-01 | 9.45E-01 | 1.59E+00 | 1.59E+00 | 7.61E+00 | 7.80E+00 | 8E-02 | 8E-02 | 1E-01 | 1E-01 | 2E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.44E-01 | 1.14E+00 | 1.14E-02 | 1.11E+01 | 1.67E+00 | 1.28E+01 | 1.28E+01 | 1.63E+00 | 3.26E+00 | **7E+00** | **3E+00** | 1E+00 | 5E-01 | **8E+00** |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.27E-02 | 1.35E-02 | 7.31E-05 | 3.04E-01 | 4.47E-02 | 3.49E-01 | 3.49E-01 | 2.27E-02 | 6.80E-02 | **1E+01** | **4E+00** | **2E+00** | 7E-01 | **2E+01** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.52E-01 | 6.91E-01 | 2.91E-03 | 1.09E+00 | 9.18E-01 | 2.01E+00 | 2.01E+00 | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **3E+00** | **1E+00** | **6E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.95E-02 | 1.21E-02 | 2.66E-05 | 4.53E-01 | 1.75E-01 | 6.27E-01 | 6.27E-01 | 4.33E-02 | 1.30E-01 | **1E+01** | **3E+00** | **4E+00** | **1E+00** | **1E+01** |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.23E-02 | 0.00E+00 | 2.67E-03 | 7.05E-06 | 2.62E-02 | 7.65E+00 | 7.68E+00 | 7.68E+00 | 4.67E-01 | 1.40E+00 | 6E-02 | 2E-02 | **2E+01** | **5E+00** | **2E+01** |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 8.84E-01 | 5.45E-03 | 7.65E-02 | 3.99E+00 | 4.07E+00 | 4.07E+00 | 2.08E+01 | 4.17E+01 | 4E-03 | 2E-03 | 2E-01 | 1E-01 | 2E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 1.93E-01 | 8.10E-04 | 8.25E-03 | 1.08E+00 | 1.08E+00 | 1.09E+00 | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 4E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 1.21E-01 | 5.49E-04 | 2.75E-02 | 2.42E-01 | 2.70E-01 | 2.70E-01 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 3E-02 | 3E-02 | 4E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 0.00E+00 | 2.50E-01 | 3.03E-03 | 9.35E-03 | 3.75E-01 | 3.85E-01 | 3.88E-01 | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 2E-01 | 1E-01 | 2E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-02 | 0.00E+00 | 2.98E-03 | 1.94E-05 | 2.06E-04 | 1.38E-01 | 1.39E-01 | 1.39E-01 | 2.27E-02 | 6.80E-02 | 9E-03 | 3E-03 | **6E+00** | **2E+00** | **6E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 1.52E-01 | 7.70E-04 | 1.10E-02 | 3.62E-01 | 3.73E-01 | 3.74E-01 | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | **1E+00** | 5E-01 | **1E+00** |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.23E-02 | 0.00E+00 | 2.67E-03 | 7.05E-06 | 2.62E-02 | 7.65E+00 | 7.68E+00 | 7.68E+00 | 4.33E-02 | 1.30E-01 | 6E-01 | 2E-01 | **2E+02** | **6E+01** | **2E+02** |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 3.74E-01 | 0.00E+00 | 5.89E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.24E-01 | 4.45E-01 | 7.69E-01 | 7.69E-01 | 5.00E-02 | 1.00E-01 | **6E+00** | **3E+00** | **9E+00** | **4E+00** | **2E+01** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 3.74E-01 | 0.00E+00 | 5.89E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.24E-01 | 4.45E-01 | 7.69E-01 | 7.69E-01 | na | 5.00E-02 | -- | **6E+00** | -- | **9E+00** | -- |
| | **Barium** | 0.00E+00 | 3.42E-01 | 0.00E+00 | 5.66E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 9.45E-01 | 1.80E+00 | 2.74E+00 | 2.75E+00 | 5.18E+01 | 1.21E+02 | 2E-02 | 8E-03 | 3E-02 | 1E-02 | 5E-02 |
| | **Chromium** | 0.00E+00 | 1.15E-01 | 0.00E+00 | 2.32E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.02E-01 | 3.54E-01 | 4.56E-01 | 4.58E-01 | 2.40E+00 | 2.82E+00 | 4E-02 | 4E-02 | 1E-01 | 1E-01 | 2E-01 |
| | **Cobalt** | 0.00E+00 | 2.01E-01 | 0.00E+00 | 2.00E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 3.10E-01 | 6.50E-01 | 6.51E-01 | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 |
| | **Lead** | 0.00E+00 | 2.15E-02 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.16E-01 | 8.91E-02 | 2.05E-01 | 2.11E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 4E-02 |
| | **Mercury** | 0.00E+00 | 5.32E-03 | 0.00E+00 | 2.26E-02 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 2.55E-03 | 2.88E-02 | 3.14E-02 | 3.14E-02 | 7.50E-02 | 1.50E-01 | 3E-02 | 2E-02 | 4E-01 | 2E-01 | 4E-01 |
| | **Vanadium** | 0.00E+00 | 1.23E-02 | 0.00E+00 | 2.08E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 3.93E-02 | 1.75E-01 | 1.77E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 5E-03 | 4E-02 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 1.53E+00 | 0.00E+00 | 6.80E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.42E-02 | 1.54E+00 | 1.59E+00 | 1.59E+00 | 5.00E-02 | 1.00E-01 | 9E-01 | 4E-01 | **3E+01** | **2E+01** | **3E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 1.53E+00 | 0.00E+00 | 6.80E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.42E-02 | 1.54E+00 | 1.59E+00 | 1.59E+00 | na | 5.00E-02 | -- | 9E-01 | -- | **3E+01** | -- |
| | **Barium** | 0.00E+00 | 1.40E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.29E-01 | 1.90E+00 | 2.02E+00 | 2.04E+00 | 5.18E+01 | 1.21E+02 | 2E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 |
| | **Chromium** | 0.00E+00 | 4.73E-01 | 0.00E+00 | 2.68E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.39E-02 | 5.04E-01 | 5.18E-01 | 5.19E-01 | 2.40E+00 | 2.82E+00 | 6E-03 | 5E-03 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.80E-01 | 9.27E-01 | 9.28E-01 | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 |
| | **Lead** | 0.00E+00 | 8.80E-02 | 0.00E+00 | 6.11E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.58E-02 | 1.04E-01 | 1.20E-01 | 1.27E-01 | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 2E-02 | 1E-02 | 3E-02 |
| | **Mercury** | 0.00E+00 | 2.18E-02 | 0.00E+00 | 2.60E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 3.47E-04 | 2.49E-02 | 2.53E-02 | 2.53E-02 | 7.50E-02 | 1.50E-01 | 5E-03 | 2E-03 | 3E-01 | 2E-01 | 3E-01 |
| | **Vanadium** | 0.00E+00 | 5.05E-02 | 0.00E+00 | 2.40E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 5.66E-02 | 7.52E-02 | 7.69E-02 | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 0.00E+00 | 6.56E-02 | 3.69E-03 | 6.22E-03 | 0.00E+00 | 1.30E-05 | 5.77E-02 | 1.06E-01 | 1.63E-01 | 1.63E-01 | 2.30E-01 | 6.80E-01 | 3E-01 | 8E-02 | 5E-01 | 2E-01 | 7E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 3.45E-01 | 0.00E+00 | 1.00E-02 | 4.62E+00 | 7.44E-01 | 5.36E+00 | 5.37E+00 | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 1.06E-01 | 0.00E+00 | 1.49E-03 | 2.65E-01 | 2.69E-02 | 2.92E-01 | 2.93E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 9E-02 | 1E-02 | 1E-02 | 1E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.17E-02 | 0.00E+00 | 1.01E-03 | 1.29E-01 | 8.34E-02 | 2.12E-01 | 2.13E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 1.33E-01 | 0.00E+00 | 5.59E-03 | 7.63E-01 | 1.55E-02 | 7.79E-01 | 7.84E-01 | 4.70E+00 | 8.90E+00 | 2E-01 | 9E-02 | 3E-03 | 2E-03 | 2E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 9.15E-04 | 1.41E-03 | 3.57E-03 | 0.00E+00 | 3.57E-05 | 2.15E-02 | 3.48E-03 | 2.50E-02 | 2.50E-02 | 7.50E-02 | 1.50E-01 | 3E-01 | 1E-01 | 5E-02 | 2E-02 | 3E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 3.96E-02 | 0.00E+00 | 1.42E-03 | 1.01E-01 | 1.17E-02 | 1.13E-01 | 1.14E-01 | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-02 | 0.00E+00 | 1.91E-03 | 1.30E-05 | 7.59E-02 | 3.49E-01 | 4.25E-01 | 4.25E-01 | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | **2E+00** | 5E-01 | **2E+00** |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 6.33E-01 | 1.00E-02 | 2.21E-01 | 2.05E+00 | 2.27E+00 | 2.28E+00 | 5.18E+01 | 1.21E+02 | 4E-03 | 2E-03 | 4E-02 | 2E-02 | 4E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-02 | 0.00E+00 | 1.38E-01 | 1.49E-03 | 2.39E-02 | 2.93E-01 | 3.17E-01 | 3.19E-01 | 2.40E+00 | 2.82E+00 | 1E-02 | 8E-03 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-03 | 0.00E+00 | 8.65E-02 | 1.01E-03 | 7.96E-02 | 3.40E-01 | 4.19E-01 | 4.20E-01 | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 5E-02 | 3E-02 | 6E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 1.79E-01 | 5.59E-03 | 2.71E-02 | 2.60E-01 | 2.87E-01 | 2.92E-01 | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 6E-02 | 3E-02 | 6E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.65E-03 | 0.00E+00 | 2.13E-03 | 3.57E-05 | 5.96E-04 | 1.58E-02 | 1.64E-02 | 1.64E-02 | 7.50E-02 | 1.50E-01 | 8E-03 | 4E-03 | 2E-01 | 1E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-03 | 0.00E+00 | 1.09E-01 | 1.42E-03 | 3.19E-02 | 1.44E-01 | 1.75E-01 | 1.77E-01 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 3E-02 | 2E-02 | 4E-02 |

**Table E3-121**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**MAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Hazard Quotients | | |
|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **LOAEL HQ (excluding water)** | **NOAEL HQ (including water)** | **LOAEL HQ (including water)** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | **4E+00** | **8E+00** | **4E+00** |
| | **Mercury** | **5E+00** | **2E+01** | **5E+00** |
| | **Vanadium** | **3E+00** | **6E+00** | **3E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **5E+00** | **1E+01** | **5E+00** |
| **GBH - mid** | **tPCB-med** | **5E+00** | **2E+01** | **5E+00** |
| | **Barium** | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 4E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 3E-02 | 4E-02 | 3E-02 |
| | **Lead** | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 5E-01 | **1E+00** | 5E-01 |
| **GBH - high** | **tPCB-high** | **6E+01** | **2E+02** | **6E+01** |
| **Mink - 1** | **tPCB-mink** | **8E+00** | **2E+01** | **8E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 6E-02 | 9E-02 | 7E-02 |
| | **Lead** | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 2E-02 | 4E-02 | 2E-02 |
| **Mink - 2** | **tPCB-mink** | **2E+01** | **3E+01** | **2E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **3E+01** | **--** | **3E+01** |
| | **Barium** | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 9E-03 | 2E-02 | 9E-03 |
| **Raccoon - 1** | **tPCB** | 2E-01 | 7E-01 | 2E-01 |
| | **Barium** | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 9E-02 | 2E-01 | 9E-02 |
| | **Mercury** | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 1E-02 | 3E-02 | 1E-02 |
| **Raccoon - 2** | **tPCB** | 6E-01 | **2E+00** | 6E-01 |
| | **Barium** | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 4E-02 | 6E-02 | 4E-02 |
| | **Lead** | 3E-02 | 6E-02 | 3E-02 |
| | **Mercury** | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 2E-02 | 4E-02 | 2E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-122**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**MAA Soil - Combined**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values (mg/kg dw) | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| Mourning Dove - mid | tPCB-med | **1.41E+00** | **7.58E-01** | 1.00E+01 | 1.71E-02 | NA | 1.71E-02 | 6.84E-01 | -- | 6.84E-01 | 2.80E+01 | 6.60E+01 | 2E-02 | 1E-02 | -- | -- | 2E-02 | 1E-02 |
| | Mercury | **8.31E-01** | **8.45E-01** | 8.00E-01 | 2.66E-03 | NA | 2.67E-03 | 8.52E-03 | -- | 8.54E-03 | 4.40E-01 | 8.00E-01 | 2E-02 | 1E-02 | -- | -- | 2E-02 | 1E-02 |
| Mourning Dove - high | tPCB-high | **1.41E+00** | **7.58E-01** | 1.00E+01 | 1.71E-02 | NA | 1.71E-02 | 6.84E-01 | -- | 6.84E-01 | 2.10E+00 | 4.50E+00 | 3E-01 | 2E-01 | -- | -- | 3E-01 | 2E-01 |
| Blue Jay - mid | tPCB-med | **1.41E+00** | **7.58E-01** | 1.00E+01 | 2.03E-02 | NA | 2.03E-02 | 8.11E-01 | -- | 8.11E-01 | 2.80E+01 | 6.60E+01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| | Mercury | **8.31E-01** | **8.45E-01** | 8.00E-01 | 4.60E-03 | NA | 4.60E-03 | 1.47E-02 | -- | 1.47E-02 | 4.40E-01 | 8.00E-01 | 3E-02 | 2E-02 | -- | -- | 3E-02 | 2E-02 |
| Blue Jay - high | tPCB-high | **1.41E+00** | **7.58E-01** | 1.00E+01 | 2.03E-02 | NA | 2.03E-02 | 8.11E-01 | -- | 8.11E-01 | 2.10E+00 | 4.50E+00 | 4E-01 | 2E-01 | -- | -- | 4E-01 | 2E-01 |
| Carolina Wren - 1 - mid | tPCB-med | **1.41E+00** | **7.58E-01** | 1.00E+01 | 1.54E-02 | NA | 1.54E-02 | 6.17E-01 | -- | 6.17E-01 | 2.80E+01 | 6.60E+01 | 2E-02 | 9E-03 | -- | -- | 2E-02 | 9E-03 |
| | Mercury | **8.31E-01** | **8.45E-01** | 8.00E-01 | 4.59E-03 | NA | 4.60E-03 | 1.47E-02 | -- | 1.47E-02 | 4.40E-01 | 8.00E-01 | 3E-02 | 2E-02 | -- | -- | 3E-02 | 2E-02 |
| Carolina Wren - 1 - high | tPCB-high | **1.41E+00** | **7.58E-01** | 1.00E+01 | 1.54E-02 | NA | 1.54E-02 | 6.17E-01 | -- | 6.17E-01 | 2.10E+00 | 4.50E+00 | 3E-01 | 1E-01 | -- | -- | 3E-01 | 1E-01 |
| Carolina Wren - 2 - mid | tPCB-med | **1.41E+00** | **7.58E-01** | 1.00E+01 | 5.91E-03 | 4.69E-03 | 1.06E-02 | 2.37E-01 | 1.88E-01 | 4.24E-01 | 2.80E+01 | 6.60E+01 | 8E-03 | 4E-03 | 7E-03 | 3E-03 | 2E-02 | 6E-03 |
| | Mercury | **8.31E-01** | **8.45E-01** | 8.00E-01 | 1.90E-03 | 2.73E-03 | 4.63E-03 | 6.07E-03 | 8.75E-03 | 1.48E-02 | 4.40E-01 | 8.00E-01 | 1E-02 | 8E-03 | 2E-02 | 1E-02 | 3E-02 | 2E-02 |
| Carolina Wren - 2 - high | tPCB-high | **1.41E+00** | **7.58E-01** | 1.00E+01 | 5.91E-03 | 4.69E-03 | 1.06E-02 | 2.37E-01 | 1.88E-01 | 4.24E-01 | 2.10E+00 | 4.50E+00 | 1E-01 | 5E-02 | 9E-02 | 4E-02 | 2E-01 | 9E-02 |
| Hawk - mid | tPCB-med | **1.41E+00** | **7.58E-01** | 1.00E+01 | 1.98E-01 | 5.49E-01 | 7.47E-01 | 7.94E+00 | 2.19E+01 | 2.99E+01 | 2.80E+01 | 6.60E+01 | 3E-01 | 1E-01 | 8E-01 | 3E-01 | **1E+00** | 5E-01 |
| | Mercury | **8.31E-01** | **8.45E-01** | 8.00E-01 | 9.08E-03 | 1.67E-02 | 2.57E-02 | 2.91E-02 | 5.33E-02 | 8.24E-02 | 4.40E-01 | 8.00E-01 | 7E-02 | 4E-02 | 1E-01 | 7E-02 | 2E-01 | 1E-01 |
| Hawk - high | tPCB-high | **1.41E+00** | **7.58E-01** | 1.00E+01 | 1.98E-01 | 5.49E-01 | 7.47E-01 | 7.94E+00 | 2.19E+01 | 2.99E+01 | 2.10E+00 | 4.50E+00 | **4E+00** | **2E+00** | **1E+01** | **5E+00** | **1E+01** | **7E+00** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-123**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**MAA, Aquatic and Subarea Soil - Riparian**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values (mg/kg dw) | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Tree Swallow - mid** | **tPCB-med** | **2.47E+00** | **7.58E-01** | 1.00E+01 | NA | 2.04E-03 | 2.04E-03 | -- | 8.17E-02 | 8.17E-02 | 2.80E+01 | 6.60E+01 | -- | -- | 3E-03 | 1E-03 | 3E-03 | 1E-03 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | 8.00E-01 | NA | 5.46E-04 | 5.48E-04 | -- | 1.75E-03 | 1.75E-03 | 4.40E-01 | 8.00E-01 | -- | -- | 4E-03 | 2E-03 | 4E-03 | 2E-03 |
| **Tree Swallow - high** | **tPCB-high** | **2.47E+00** | **7.58E-01** | 1.00E+01 | NA | 2.04E-03 | 2.04E-03 | -- | 8.17E-02 | 8.17E-02 | 2.10E+00 | 4.50E+00 | -- | -- | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.47E+00** | **7.58E-01** | 1.00E+01 | 4.40E-02 | 3.84E-03 | 4.78E-02 | 1.76E+00 | 1.54E-01 | 1.91E+00 | 2.80E+01 | 6.60E+01 | 6E-02 | 3E-02 | 5E-03 | 2E-03 | 7E-02 | 3E-02 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | 8.00E-01 | 1.07E-02 | 1.73E-03 | 1.24E-02 | 3.42E-02 | 5.54E-03 | 3.97E-02 | 4.40E-01 | 8.00E-01 | 8E-02 | 4E-02 | 1E-02 | 7E-03 | 9E-02 | 5E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.47E+00** | **7.58E-01** | 1.00E+01 | 4.40E-02 | 3.84E-03 | 4.78E-02 | 1.76E+00 | 1.54E-01 | 1.91E+00 | 2.10E+00 | 4.50E+00 | 8E-01 | 4E-01 | 7E-02 | 3E-02 | 9E-01 | 4E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **2.47E+00** | **7.58E-01** | 1.00E+01 | NA | 1.83E-01 | 1.83E-01 | -- | 7.31E+00 | 7.31E+00 | 2.80E+01 | 6.60E+01 | -- | -- | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | 8.00E-01 | NA | 5.55E-03 | 5.55E-03 | -- | 1.78E-02 | 1.78E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **2.47E+00** | **7.58E-01** | 1.00E+01 | NA | 1.83E-01 | 1.83E-01 | -- | 7.31E+00 | 7.31E+00 | 2.10E+00 | 4.50E+00 | -- | -- | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **2.47E+00** | **7.58E-01** | 1.00E+01 | NA | 3.89E-01 | 3.89E-01 | -- | 1.56E+01 | 1.56E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | 8.00E-01 | NA | 9.22E-03 | 9.23E-03 | -- | 2.95E-02 | 2.95E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 7E-02 | 4E-02 | 7E-02 | 4E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **2.47E+00** | **7.58E-01** | 1.00E+01 | NA | 3.89E-01 | 3.89E-01 | -- | 1.56E+01 | 1.56E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **7E+00** | **3E+00** | **7E+00** | **3E+00** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **2.47E+00** | **7.58E-01** | 1.00E+01 | NA | 3.03E-01 | 3.03E-01 | -- | 1.21E+01 | 1.21E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | **1.42E+00** | **8.45E-01** | 8.00E-01 | NA | 8.52E-03 | 8.53E-03 | -- | 2.73E-02 | 2.73E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **2.47E+00** | **7.58E-01** | 1.00E+01 | NA | 3.03E-01 | 3.03E-01 | -- | 1.21E+01 | 1.21E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **GBH - mid** | **tPCB-med** | **2.47E+00** | **7.58E-01** | 1.00E+01 | 1.37E-02 | 6.88E+00 | 6.90E+00 | 5.49E-01 | 2.75E+02 | 2.76E+02 | 2.80E+01 | 6.60E+01 | 2E-02 | 8E-03 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Mercury** | **1.42E+00** | **8.45E-01** | 8.00E-01 | 4.42E-04 | 1.67E-01 | 1.68E-01 | 1.41E-03 | 5.35E-01 | 5.37E-01 | 4.40E-01 | 8.00E-01 | 3E-03 | 2E-03 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **GBH - high** | **tPCB-high** | **2.47E+00** | **7.58E-01** | 1.00E+01 | 1.37E-02 | 6.88E+00 | 6.90E+00 | 5.49E-01 | 2.75E+02 | 2.76E+02 | 2.10E+00 | 4.50E+00 | 3E-01 | 1E-01 | **1E+02** | **6E+01** | **1E+02** | **6E+01** |
| **Osprey - mid** | **tPCB-med** | **2.47E+00** | **7.58E-01** | 1.00E+01 | NA | 2.03E+00 | 2.03E+00 | -- | 8.13E+01 | 8.13E+01 | 2.80E+01 | 6.60E+01 | -- | -- | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | **1.42E+00** | **8.45E-01** | 8.00E-01 | NA | 4.49E-02 | 4.49E-02 | -- | 1.44E-01 | 1.44E-01 | 4.40E-01 | 8.00E-01 | -- | -- | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| **Osprey - high** | **tPCB-high** | **2.47E+00** | **7.58E-01** | 1.00E+01 | NA | 2.03E+00 | 2.03E+00 | -- | 8.13E+01 | 8.13E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **4E+01** | **2E+01** | **4E+01** | **2E+01** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-124**

**Lower Trophic Level Terrestrial Risk Calculations For Reach C7**

**Anniston PCB Site, Anniston, Alabama**

| Media | Receptor Community | COPC | Soil EPC (mg/kg) | Toxicity Benchmarks[a] (mg/kg) | | Hazard Quotients | |
|---|---|---|---|---|---|---|---|
| | | | | NOAEL | LOAEL | NOAEL | LOAEL |
| Soil - North | **Terrestrial Plants** | **PCB** | 7.41E-01 | 4.00E+01 | NA | 2E-02 | -- |
| | | **Chromium** | 2.22E+01 | 1.00E+00 | NA | **2E+01** | -- |
| | | **Lead** | 3.94E+01 | 1.20E+02 | NA | 3E-01 | -- |
| | | **Mercury** | 5.36E-01 | 3.00E-01 | NA | **2E+00** | -- |
| | | **Vanadium** | 2.88E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 7.41E-01 | 3.60E+00 | 3.60E+01 | 2E-01 | 2E-02 |
| | | **Chromium** | 2.22E+01 | 4.00E-01 | NA | **6E+01** | -- |
| | | **Lead** | 3.94E+01 | 1.70E+03 | NA | 2E-02 | -- |
| | | **Mercury** | 5.36E-01 | 1.00E-01 | 0.23 | **5E+00** | **2E+00** |
| | | **Vanadium** | 2.88E+01 | NA | NA | -- | -- |
| Soil - South | **Terrestrial Plants** | **PCB** | 1.34E+00 | 4.00E+01 | NA | 3E-02 | -- |
| | | **Chromium** | 2.95E+01 | 1.00E+00 | NA | **3E+01** | -- |
| | | **Lead** | 2.48E+01 | 1.20E+02 | NA | 2E-01 | -- |
| | | **Mercury** | 1.75E+00 | 3.00E-01 | NA | **6E+00** | -- |
| | | **Vanadium** | 2.99E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 1.34E+00 | 3.60E+00 | 3.60E+01 | 4E-01 | 4E-02 |
| | | **Chromium** | 2.95E+01 | 4.00E-01 | NA | **7E+01** | -- |
| | | **Lead** | 2.48E+01 | 1.70E+03 | NA | 1E-02 | -- |
| | | **Mercury** | 1.75E+00 | 1.00E-01 | 0.23 | **2E+01** | **8E+00** |
| | | **Vanadium** | 2.99E+01 | NA | NA | -- | -- |
| Soil - Riparian | **Terrestrial Plants** | **PCB** | 2.62E+00 | 4.00E+01 | NA | 7E-02 | -- |
| | | **Chromium** | 2.78E+01 | 1.00E+00 | NA | **3E+01** | -- |
| | | **Lead** | 3.21E+01 | 1.20E+02 | NA | 3E-01 | -- |
| | | **Mercury** | 3.02E+00 | 3.00E-01 | NA | **1E+01** | -- |
| | | **Vanadium** | 1.54E+01 | 2.00E+00 | NA | **8E+00** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 2.62E+00 | 3.60E+00 | 3.60E+01 | 7E-01 | 7E-02 |
| | | **Chromium** | 2.78E+01 | 4.00E-01 | NA | **7E+01** | -- |
| | | **Lead** | 3.21E+01 | 1.70E+03 | NA | 2E-02 | -- |
| | | **Mercury** | 3.02E+00 | 1.00E-01 | 0.23 | **3E+01** | **1E+01** |
| | | **Vanadium** | 1.54E+01 | NA | NA | -- | -- |

**Notes:**

a = NOAELs represent chronic values and LOAELs represent acute values
COPC = constituent of potential concern
EPC - exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
NA = not applicable
NOAEL = no observed adverse effect level
OU = Operable Unit
PCB = total polychlorinated biphenyl

**Bold indicates hazard quotients greater than 1**

**Table E3-125**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C7**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-125**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C7**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | |
|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Tree Swallow - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Osprey - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Osprey - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Bat** | **tPCB** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Otter** | **tPCB-mink** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |

**Table E3-125**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C7**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-125**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C7**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 1.21E-01 | 1.21E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 3.44E-01 | 3.70E-01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 3.58E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 3.58E+00 | 3.58E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 6.94E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 6.94E-02 | 7.20E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.54E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 4.54E-02 | 5.95E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.60E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 2.60E-02 | 2.61E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.46E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 1.46E-01 | 1.50E-01 | 3.44E-01 | 7.00E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 1.21E-01 | 1.21E-01 | 4.33E-02 | 1.30E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 4.60E-02 | 0.00E+00 | 4.61E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 2.66E-05 | 4.68E+00 | 4.68E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 2.19E+00 | 0.00E+00 | 2.19E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.62E-01 | 2.06E-02 | 5.23E+00 | 5.25E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 4.27E-01 | 0.00E+00 | 4.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 3.06E-03 | 1.29E+00 | 1.29E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 4.32E-01 | 0.00E+00 | 4.32E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-01 | 2.07E-03 | 9.89E-01 | 9.92E-01 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 6.53E-01 | 0.00E+00 | 6.53E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-01 | 1.14E-02 | 1.60E+00 | 1.61E+00 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 2.64E-02 | 0.00E+00 | 7.26E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E-02 | 7.31E-05 | 1.25E-01 | 1.25E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 2.96E-01 | 0.00E+00 | 2.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.44E-01 | 2.91E-03 | 8.35E-01 | 8.38E-01 | 3.44E-01 | 7.00E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 4.60E-02 | 0.00E+00 | 4.61E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 2.66E-05 | 4.68E+00 | 4.68E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.73E+00 | 0.00E+00 | 0.00E+00 | 2.83E-03 | 1.72E-05 | 2.73E+00 | 2.73E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.98E+00 | 0.00E+00 | 0.00E+00 | 8.48E-02 | 1.33E-02 | 4.06E+00 | 4.08E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E+00 | 0.00E+00 | 0.00E+00 | 4.29E-02 | 1.98E-03 | 1.31E+00 | 1.31E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 1.34E-03 | 3.06E+00 | 3.06E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.16E-02 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 7.40E-03 | 6.06E-02 | 6.80E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.89E-02 | 0.00E+00 | 0.00E+00 | 2.57E-03 | 4.73E-05 | 6.14E-02 | 6.15E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.92E-01 | 0.00E+00 | 0.00E+00 | 2.40E-02 | 1.88E-03 | 2.16E-01 | 2.18E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.73E+00 | 0.00E+00 | 0.00E+00 | 2.83E-03 | 1.72E-05 | 2.73E+00 | 2.73E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-02 | 0.00E+00 | 0.00E+00 | 2.07E+00 | 0.00E+00 | 1.54E-02 | 2.83E-03 | 1.72E-05 | 2.11E+00 | 2.11E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.57E+00 | 0.00E+00 | 0.00E+00 | 3.02E+00 | 0.00E+00 | 2.49E-01 | 8.48E-02 | 1.33E-02 | 7.93E+00 | 7.94E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 9.64E-01 | 0.00E+00 | 1.18E-01 | 4.29E-02 | 1.98E-03 | 1.16E+00 | 1.16E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.20E-02 | 1.23E-02 | 1.34E-03 | 2.94E+00 | 2.94E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.57E-02 | 0.00E+00 | 0.00E+00 | 2.40E-02 | 0.00E+00 | 2.85E-02 | 2.90E-02 | 7.40E-03 | 1.17E-01 | 1.25E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.37E-03 | 0.00E+00 | 0.00E+00 | 4.47E-02 | 0.00E+00 | 4.11E-03 | 2.57E-03 | 4.73E-05 | 5.68E-02 | 5.68E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.26E-02 | 0.00E+00 | 0.00E+00 | 1.46E-01 | 0.00E+00 | 1.08E-02 | 2.40E-02 | 1.88E-03 | 2.24E-01 | 2.25E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-02 | 0.00E+00 | 0.00E+00 | 2.07E+00 | 0.00E+00 | 1.54E-02 | 2.83E-03 | 1.72E-05 | 2.11E+00 | 2.11E+00 | 4.33E-02 | 1.30E-01 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 1.42E+00 | 1.42E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 5.62E-01 | 5.68E-01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 1.68E-01 | 1.69E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 2.05E-02 | 2.11E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.66E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 1.66E-02 | 2.01E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 3.19E-02 | 3.19E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.62E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 2.62E-02 | 2.70E-02 | 3.44E-01 | 7.00E-01 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 1.42E+00 | 1.42E+00 | 4.33E-02 | 1.30E-01 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 8.95E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 8.95E-02 | 8.95E-02 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 2.54E-01 | 2.74E-01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.64E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 2.64E+00 | 2.65E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 5.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 5.12E-02 | 5.32E-02 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 3.35E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 3.35E-02 | 4.43E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.92E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 1.92E-02 | 1.93E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.08E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 1.08E-01 | 1.10E-01 | 4.16E+00 | 8.31E+00 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.37E-01 | 4.28E-01 | 1.81E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 9.45E-01 | 9.45E-01 | 5.00E-02 | 1.00E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.37E-01 | 4.28E-01 | 1.81E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 9.45E-01 | 9.45E-01 | na | 5.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-01 | 4.82E-02 | 2.64E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 4.45E-01 | 4.55E-01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.98E-02 | 1.66E-02 | 8.42E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 1.41E-01 | 1.42E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 1.80E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.09E-01 | 2.10E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.94E-03 | 1.80E-03 | 2.10E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 7.83E-03 | 1.33E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.56E-03 | 9.90E-03 | 3.91E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 2.14E-02 | 2.14E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.20E-03 | 1.63E-03 | 1.28E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 2.06E-02 | 2.20E-02 | 4.16E+00 | 8.31E+00 |

**Table E3-125**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C7**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 3E-01 | 9E-02 | 3E-01 | 9E-02 |
| | **Barium** | 2E-02 | 8E-03 | 2E-02 | 9E-03 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 9E-03 | 9E-03 | 9E-03 | 9E-03 |
| | **Lead** | 3E-02 | 1E-02 | 4E-02 | 2E-02 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Barium** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1E+00 | 5E-01 | 1E+00 | 5E-01 |
| | **Mercury** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Barium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Vanadium** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | **6E+01** | **2E+01** | **6E+01** | **2E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Chromium** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 7E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Mercury** | **3E+00** | 8E-01 | **3E+00** | 8E-01 |
| | **Vanadium** | 6E-01 | 3E-01 | 7E-01 | 3E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Osprey - mid** | **tPCB-med** | **3E+00** | 1E+00 | **3E+00** | 1E+00 |
| | **Barium** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 6E-02 | 6E-02 | 6E-02 | 6E-02 |
| | **Cobalt** | 3E-03 | 3E-03 | 3E-03 | 3E-03 |
| | **Lead** | 1E-02 | 5E-03 | 1E-02 | 6E-03 |
| | **Mercury** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| **Osprey - high** | **tPCB-high** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| **Bat** | **tPCB** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Barium** | 5E-03 | 2E-03 | 5E-03 | 2E-03 |
| | **Chromium** | **1E+00** | 9E-01 | **1E+00** | 9E-01 |
| | **Cobalt** | 7E-03 | 5E-03 | 7E-03 | 5E-03 |
| | **Lead** | 7E-03 | 4E-03 | 9E-03 | 5E-03 |
| | **Mercury** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | **2E+01** | **9E+00** | **2E+01** | **9E+00** |
| **Otter (Alternative TRV)** | **tPCB-mink** | **--** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 9E-03 | 4E-03 | 9E-03 | 4E-03 |
| | **Chromium** | 6E-02 | 5E-02 | 6E-02 | 5E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 2E-03 | 9E-04 | 3E-03 | 1E-03 |
| | **Mercury** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 5E-03 | 2E-03 | 5E-03 | 3E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-126**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **7.41E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.94E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **7.41E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **7.41E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.94E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **7.41E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **7.41E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.94E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **7.41E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **7.41E-01** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.94E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **7.41E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.94E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **7.41E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.94E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **7.41E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.94E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **7.41E-01** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.94E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-126**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioacccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.85E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-02 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.78E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-02 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.82E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.75E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.73E-01 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.89E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.65E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.85E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-02 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.79E-02 | 2.12E-03 | 0.00E+00 | 4.93E-02 | 0.00E+00 | 1.59E-02 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.20E-03 | 5.87E-04 | 0.00E+00 | 2.34E-02 | 0.00E+00 | 1.15E-02 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.38E-01 | 1.24E-01 | 0.00E+00 | 3.43E-01 | 0.00E+00 | 4.75E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.48E-02 | 5.46E-03 | 0.00E+00 | 4.39E-01 | 0.00E+00 | 8.44E-01 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.44E-02 | 3.98E-03 | 0.00E+00 | 3.04E-01 | 0.00E+00 | 6.17E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.79E-02 | 2.12E-03 | 0.00E+00 | 4.93E-02 | 0.00E+00 | 1.59E-02 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.06E-02 | 1.38E-02 | 1.07E-01 | 2.21E-01 | 0.00E+00 | 2.53E-02 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.88E-04 | 3.83E-03 | 5.08E-02 | 1.05E-01 | 0.00E+00 | 1.83E-02 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 4.38E-02 | 8.09E-01 | 7.45E-01 | 1.54E+00 | 0.00E+00 | 7.58E-01 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.71E-03 | 3.56E-02 | 9.53E-01 | 1.97E+00 | 0.00E+00 | 1.34E+00 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 4.49E-03 | 2.59E-02 | 6.60E-01 | 1.36E+00 | 0.00E+00 | 9.83E-01 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.06E-02 | 1.38E-02 | 1.07E-01 | 2.21E-01 | 0.00E+00 | 2.53E-02 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 7.44E-03 | 4.11E-03 | 1.39E-01 | 9.55E-02 | 0.00E+00 | 2.84E-03 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 4.11E-04 | 1.14E-03 | 6.57E-02 | 4.53E-02 | 0.00E+00 | 2.06E-03 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.06E-02 | 2.41E-01 | 9.63E-01 | 6.64E-01 | 0.00E+00 | 8.51E-02 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.90E-03 | 1.06E-02 | 1.23E+00 | 8.50E-01 | 0.00E+00 | 1.51E-01 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.14E-03 | 7.71E-03 | 8.54E-01 | 5.88E-01 | 0.00E+00 | 1.10E-01 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 7.11E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E-04 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.93E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-04 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.92E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.51E-03 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.00E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.44E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-01 | 1.89E-03 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.41E-03 | 1.37E-03 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.94E-01 | 5.67E-02 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E-01 | 1.01E-01 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 7.35E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.12E-03 | 0.00E+00 | 4.44E-03 | 0.00E+00 | 5.26E-02 | 7.86E-04 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.73E-04 | 0.00E+00 | 2.10E-03 | 0.00E+00 | 2.22E-03 | 5.68E-04 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.28E-02 | 0.00E+00 | 3.08E-02 | 0.00E+00 | 1.99E-01 | 2.35E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.96E-04 | 0.00E+00 | 3.95E-02 | 0.00E+00 | 1.15E-01 | 4.18E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.32E-03 | 0.00E+00 | 2.73E-02 | 0.00E+00 | 1.87E-01 | 3.05E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 9.19E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.33E-02 | 7.86E-04 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.07E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.67E-03 | 5.68E-04 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.78E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-01 | 2.35E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.34E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 4.18E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.87E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 3.05E-02 | 1.45E-03 |

**Table E3-126**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 8.31E-02 | 8.31E-02 | 4.67E-01 | 1.40E+00 | 2E-01 | 6E-02 | 2E-01 | 6E-02 |
| | **Mercury** | 1.43E-02 | 1.44E-02 | 2.27E-02 | 6.80E-02 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Chromium** | 7.18E-01 | 7.20E-01 | 2.66E+00 | 2.80E+00 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 7.91E-01 | 7.99E-01 | 1.63E+00 | 3.26E+00 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | 5.94E-01 | 5.96E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | **2E+00** | 9E-01 |
| **Mourning Dove - high** | **tPCB-high** | 8.31E-02 | 8.31E-02 | 4.33E-02 | 1.30E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| **Blue Jay - mid** | **tPCB-med** | 1.25E-01 | 1.25E-01 | 4.67E-01 | 1.40E+00 | 3E-01 | 9E-02 | 3E-01 | 9E-02 |
| | **Mercury** | 3.86E-02 | 3.87E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Chromium** | 1.18E+00 | 1.18E+00 | 2.66E+00 | 2.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 1.30E+00 | 1.31E+00 | 1.63E+00 | 3.26E+00 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Vanadium** | 9.49E-01 | 9.51E-01 | 3.44E-01 | 7.00E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | 1.25E-01 | 1.25E-01 | 4.33E-02 | 1.30E-01 | **3E+00** | 1E+00 | **3E+00** | 1E+00 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 3.78E-01 | 3.78E-01 | 4.67E-01 | 1.40E+00 | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| | **Mercury** | 1.78E-01 | 1.78E-01 | 2.27E-02 | 6.80E-02 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Chromium** | 3.89E+00 | 3.90E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | 4.31E+00 | 4.32E+00 | 1.63E+00 | 3.26E+00 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 3.04E+00 | 3.04E+00 | 3.44E-01 | 7.00E-01 | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 3.78E-01 | 3.78E-01 | 4.33E-02 | 1.30E-01 | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| **Shrew - 1** | **tPCB** | 2.49E-01 | 2.49E-01 | 2.30E-01 | 6.80E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | 1.15E-01 | 1.15E-01 | 7.50E-02 | 1.50E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 1.98E+00 | 1.99E+00 | 2.40E+00 | 2.82E+00 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | 2.25E+00 | 2.26E+00 | 4.70E+00 | 8.90E+00 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 1.56E+00 | 1.57E+00 | 4.16E+00 | 8.31E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Deer** | **tPCB** | 7.33E-03 | 7.34E-03 | 2.30E-01 | 6.80E-01 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 5.50E-04 | 5.78E-04 | 7.50E-02 | 1.50E-01 | 7E-03 | 4E-03 | 8E-03 | 4E-03 |
| | **Chromium** | 3.57E-02 | 3.69E-02 | 2.40E+00 | 2.82E+00 | 1E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 1.34E-02 | 1.78E-02 | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 4E-03 | 2E-03 |
| | **Vanadium** | 1.14E-02 | 1.26E-02 | 4.16E+00 | 8.31E+00 | 3E-03 | 1E-03 | 3E-03 | 2E-03 |
| **Weasel** | **tPCB** | 1.06E-01 | 1.06E-01 | 2.30E-01 | 6.80E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 5.78E-03 | 5.82E-03 | 7.50E-02 | 1.50E-01 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Chromium** | 4.51E-01 | 4.53E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3.29E-01 | 3.36E-01 | 4.70E+00 | 8.90E+00 | 7E-02 | 4E-02 | 7E-02 | 4E-02 |
| | **Vanadium** | 4.45E-01 | 4.46E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 6.10E-02 | 6.10E-02 | 2.30E-01 | 6.80E-01 | 3E-01 | 9E-02 | 3E-01 | 9E-02 |
| | **Mercury** | 5.06E-03 | 5.10E-03 | 7.50E-02 | 1.50E-01 | 7E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 2.66E-01 | 2.67E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 1.97E-01 | 2.03E-01 | 4.70E+00 | 8.90E+00 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Vanadium** | 2.46E-01 | 2.48E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 6.50E-02 | 6.50E-02 | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 3.29E-03 | 3.33E-03 | 7.50E-02 | 1.50E-01 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.66E-01 | 2.68E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 1.80E-01 | 1.86E-01 | 4.70E+00 | 8.90E+00 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Vanadium** | 2.56E-01 | 2.57E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-127**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **1.34E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.48E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **1.34E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.34E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.48E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **1.34E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.34E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.48E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.34E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **1.34E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.48E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **1.34E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.48E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **1.34E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.48E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **1.34E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.48E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **1.34E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.48E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-127**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E-02 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.44E-02 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.75E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.79E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.87E-01 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.86E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E-02 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 9.33E-02 | 3.84E-03 | 0.00E+00 | 9.68E-02 | 0.00E+00 | 2.87E-02 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.04E-02 | 1.92E-03 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 3.75E-02 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.16E-01 | 1.24E-01 | 0.00E+00 | 4.55E-01 | 0.00E+00 | 6.32E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 9.29E-03 | 3.44E-03 | 0.00E+00 | 2.76E-01 | 0.00E+00 | 5.31E-01 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.53E-02 | 4.13E-03 | 0.00E+00 | 3.15E-01 | 0.00E+00 | 6.40E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 9.33E-02 | 3.84E-03 | 0.00E+00 | 9.68E-02 | 0.00E+00 | 2.87E-02 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.72E-02 | 2.50E-02 | 2.10E-01 | 4.35E-01 | 0.00E+00 | 4.58E-02 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.92E-03 | 1.25E-02 | 1.09E-01 | 2.24E-01 | 0.00E+00 | 5.97E-02 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.82E-02 | 8.09E-01 | 9.90E-01 | 2.05E+00 | 0.00E+00 | 1.01E+00 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.71E-03 | 2.24E-02 | 6.00E-01 | 1.24E+00 | 0.00E+00 | 8.47E-01 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 4.65E-03 | 2.69E-02 | 6.85E-01 | 1.41E+00 | 0.00E+00 | 1.02E+00 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.72E-02 | 2.50E-02 | 2.10E-01 | 4.35E-01 | 0.00E+00 | 4.58E-02 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.20E-02 | 7.44E-03 | 2.72E-01 | 1.88E-01 | 0.00E+00 | 5.15E-03 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.34E-03 | 3.71E-03 | 1.40E-01 | 9.68E-02 | 0.00E+00 | 6.71E-03 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 4.07E-02 | 2.41E-01 | 1.28E+00 | 8.82E-01 | 0.00E+00 | 1.13E-01 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.19E-03 | 6.66E-03 | 7.76E-01 | 5.35E-01 | 0.00E+00 | 9.51E-02 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.25E-03 | 7.99E-03 | 8.86E-01 | 6.10E-01 | 0.00E+00 | 1.15E-01 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.93E-04 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.28E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.13E-04 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.89E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.65E-03 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.14E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.27E-03 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.11E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.75E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.44E-01 | 3.43E-03 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.44E-02 | 4.47E-03 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.24E-01 | 7.53E-02 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.44E-01 | 6.33E-02 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 7.62E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.04E-03 | 0.00E+00 | 8.72E-03 | 0.00E+00 | 7.28E-02 | 1.42E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.63E-04 | 0.00E+00 | 4.50E-03 | 0.00E+00 | 7.25E-03 | 1.86E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.71E-02 | 0.00E+00 | 4.10E-02 | 0.00E+00 | 2.64E-01 | 3.13E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.01E-04 | 0.00E+00 | 2.49E-02 | 0.00E+00 | 7.25E-02 | 2.63E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.37E-03 | 0.00E+00 | 2.84E-02 | 0.00E+00 | 1.87E-01 | 3.17E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.48E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.75E-02 | 1.42E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.66E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-03 | 1.86E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.02E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.17E-01 | 3.13E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.47E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-02 | 2.63E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.02E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 3.17E-02 | 1.45E-03 |

**Table E3-127**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 1.37E-01 | 1.37E-01 | 4.67E-01 | 1.40E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 4.67E-02 | 4.68E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Chromium** | 9.54E-01 | 9.56E-01 | 2.66E+00 | 2.80E+00 | 4E-01 | 3E-01 | 4E-01 | 3E-01 |
| | **Lead** | 4.98E-01 | 5.06E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 6.16E-01 | 6.18E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.37E-01 | 1.37E-01 | 4.33E-02 | 1.30E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Blue Jay - mid** | **tPCB-med** | 2.23E-01 | 2.23E-01 | 4.67E-01 | 1.40E+00 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 9.98E-02 | 9.98E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Chromium** | 1.53E+00 | 1.53E+00 | 2.66E+00 | 2.80E+00 | 6E-01 | 5E-01 | 6E-01 | 5E-01 |
| | **Lead** | 8.20E-01 | 8.29E-01 | 1.63E+00 | 3.26E+00 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Vanadium** | 9.84E-01 | 9.86E-01 | 3.44E-01 | 7.00E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | 2.23E-01 | 2.23E-01 | 4.33E-02 | 1.30E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 7.33E-01 | 7.33E-01 | 4.67E-01 | 1.40E+00 | **2E+00** | 5E-01 | **2E+00** | 5E-01 |
| | **Mercury** | 4.07E-01 | 4.07E-01 | 2.27E-02 | 6.80E-02 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Chromium** | 4.91E+00 | 4.91E+00 | 2.66E+00 | 2.80E+00 | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Lead** | 2.71E+00 | 2.73E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | 3.15E+00 | 3.15E+00 | 3.44E-01 | 7.00E-01 | **9E+00** | **5E+00** | **9E+00** | **5E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 7.33E-01 | 7.33E-01 | 4.33E-02 | 1.30E-01 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| **Shrew - 1** | **tPCB** | 4.84E-01 | 4.85E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 2.49E-01 | 2.49E-01 | 7.50E-02 | 1.50E-01 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Chromium** | 2.56E+00 | 2.56E+00 | 2.40E+00 | 2.82E+00 | **1E+00** | 9E-01 | **1E+00** | 9E-01 |
| | **Lead** | 1.41E+00 | 1.42E+00 | 4.70E+00 | 8.90E+00 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 1.62E+00 | 1.62E+00 | 4.16E+00 | 8.31E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Deer** | **tPCB** | 1.19E-02 | 1.19E-02 | 2.30E-01 | 6.80E-01 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Mercury** | 1.80E-03 | 1.82E-03 | 7.50E-02 | 1.50E-01 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Chromium** | 4.75E-02 | 4.87E-02 | 2.40E+00 | 2.82E+00 | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 8.41E-03 | 1.29E-02 | 4.70E+00 | 8.90E+00 | 2E-03 | 9E-04 | 3E-03 | 1E-03 |
| | **Vanadium** | 1.19E-02 | 1.30E-02 | 4.16E+00 | 8.31E+00 | 3E-03 | 1E-03 | 3E-03 | 2E-03 |
| **Weasel** | **tPCB** | 1.48E-01 | 1.48E-01 | 2.30E-01 | 6.80E-01 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Mercury** | 1.89E-02 | 1.89E-02 | 7.50E-02 | 1.50E-01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 5.99E-01 | 6.01E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Lead** | 2.07E-01 | 2.15E-01 | 4.70E+00 | 8.90E+00 | 4E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Vanadium** | 4.47E-01 | 4.49E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 8.79E-02 | 8.79E-02 | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | 1.42E-02 | 1.42E-02 | 7.50E-02 | 1.50E-01 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 3.53E-01 | 3.55E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1.24E-01 | 1.30E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Vanadium** | 2.48E-01 | 2.50E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 9.04E-02 | 9.04E-02 | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | 1.07E-02 | 1.08E-02 | 7.50E-02 | 1.50E-01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 3.54E-01 | 3.55E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1.14E-01 | 1.19E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Vanadium** | 2.57E-01 | 2.58E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-128**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **7.41E-01** | **8.97E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.39E+02** | **2.69E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.22E+01** | **1.36E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **2.52E+01** | **3.90E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.94E+01** | **9.20E+00** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **5.36E-01** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.88E+01** | **7.60E+00** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **7.41E-01** | **8.97E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **7.41E-01** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.39E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.22E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **2.52E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.94E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **5.36E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.88E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **7.41E-01** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **7.41E-01** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.39E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.22E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **2.52E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.94E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **5.36E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.88E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **7.41E-01** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.39E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.22E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **2.52E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.94E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **5.36E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.88E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |

**Table E3-128**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-128**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-128**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-128**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.45E+01 | 2.18E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.45E+01 | 2.18E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 2.45E+01 | 2.18E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 2.45E+01 | 2.18E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 2.45E+01 | 2.18E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 2.45E+01 | 2.18E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-128**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| Carolina Wren - 2 - mid | tPCB-med | 5.07E-03 | 0.00E+00 | 0.00E+00 | 1.07E-01 | 0.00E+00 | 1.38E-02 | 0.00E+00 | 2.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 8.70E-01 | 0.00E+00 | 0.00E+00 | 4.16E+00 | 0.00E+00 | 5.97E-01 | 0.00E+00 | 1.66E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 8.40E-02 | 0.00E+00 | 0.00E+00 | 7.45E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 9.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 7.62E-01 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 2.53E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 1.02E-01 | 0.00E+00 | 0.00E+00 | 9.53E-01 | 0.00E+00 | 3.56E-02 | 0.00E+00 | 4.60E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 1.43E-03 | 0.00E+00 | 0.00E+00 | 5.08E-02 | 0.00E+00 | 3.83E-03 | 0.00E+00 | 1.32E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 5.49E-02 | 0.00E+00 | 0.00E+00 | 6.60E-01 | 0.00E+00 | 2.59E-02 | 0.00E+00 | 3.60E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Carolina wren - 2 - high | tPCB-high | 5.07E-03 | 0.00E+00 | 0.00E+00 | 1.07E-01 | 0.00E+00 | 1.38E-02 | 0.00E+00 | 2.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hawk - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.63E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.68E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.18E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hawk - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 0.00E+00 | 5.73E-03 | 0.00E+00 | 7.86E-03 | 0.00E+00 | 3.38E-04 | 7.86E-03 | 0.00E+00 | 2.50E-03 | 0.00E+00 | 0.00E+00 | 1.83E-03 | 1.19E-02 | 0.00E+00 |
| | Barium | 0.00E+00 | 1.43E+00 | 0.00E+00 | 3.05E-01 | 0.00E+00 | 1.46E-02 | 3.05E-01 | 0.00E+00 | 4.16E-02 | 0.00E+00 | 0.00E+00 | 5.33E-01 | 4.69E-03 | 0.00E+00 |
| | Chromium | 0.00E+00 | 2.36E-02 | 0.00E+00 | 5.46E-02 | 0.00E+00 | 1.98E-02 | 5.46E-02 | 0.00E+00 | 9.44E-03 | 0.00E+00 | 0.00E+00 | 3.63E-03 | 1.40E-03 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 1.69E-02 | 0.00E+00 | 5.80E-02 | 0.00E+00 | 4.95E-02 | 5.80E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.71E-04 | 0.00E+00 |
| | Lead | 0.00E+00 | 1.46E-03 | 0.00E+00 | 6.99E-02 | 0.00E+00 | 8.71E-04 | 6.99E-02 | 0.00E+00 | 5.47E-03 | 0.00E+00 | 0.00E+00 | 4.15E-03 | 1.39E-04 | 0.00E+00 |
| | Mercury | 0.00E+00 | 3.16E-04 | 0.00E+00 | 3.72E-03 | 0.00E+00 | 9.36E-05 | 3.72E-03 | 0.00E+00 | 1.06E-04 | 0.00E+00 | 0.00E+00 | 6.25E-04 | 2.67E-04 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 2.41E-03 | 0.00E+00 | 4.84E-02 | 0.00E+00 | 6.34E-04 | 4.84E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.97E-03 | 2.19E-04 | 0.00E+00 |
| Shrew - 2 | tPCB | 0.00E+00 | 1.05E-02 | 0.00E+00 | 1.54E-01 | 0.00E+00 | 2.82E-03 | 6.56E-02 | 0.00E+00 | 1.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 2.63E+00 | 0.00E+00 | 5.96E+00 | 0.00E+00 | 1.22E-01 | 2.54E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 4.34E-02 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 1.65E-01 | 4.56E-01 | 0.00E+00 | 4.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 3.11E-02 | 0.00E+00 | 1.13E+00 | 0.00E+00 | 4.13E-01 | 4.84E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 2.69E-03 | 0.00E+00 | 1.37E+00 | 0.00E+00 | 7.26E-03 | 5.83E-01 | 0.00E+00 | 2.46E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 5.82E-04 | 0.00E+00 | 7.28E-02 | 0.00E+00 | 7.80E-04 | 3.11E-02 | 0.00E+00 | 4.75E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 4.44E-03 | 0.00E+00 | 9.46E-01 | 0.00E+00 | 5.29E-03 | 4.04E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-128**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E-02 | 0.00E+00 | 4.23E-05 | 1.46E-01 | 2.82E-01 | 4.28E-01 | 4.28E-01 | 4.67E-01 | 1.40E+00 | 3E-01 | 1E-01 | 6E-01 | 2E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.74E+00 | 0.00E+00 | 3.27E-02 | 9.50E+00 | 2.53E+00 | 1.20E+01 | 1.21E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 2E-01 | 1E-01 | 6E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.58E-01 | 0.00E+00 | 4.86E-03 | 2.31E+00 | 1.03E+00 | 3.34E+00 | 3.34E+00 | 2.66E+00 | 2.80E+00 | 9E-01 | 8E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.29E-03 | 3.67E+00 | 1.01E+00 | 4.69E+00 | 4.69E+00 | 7.61E+00 | 7.80E+00 | 5E-01 | 5E-01 | 1E-01 | 1E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E+00 | 0.00E+00 | 1.82E-02 | 2.33E+00 | 5.62E-01 | 2.90E+00 | 2.91E+00 | 1.63E+00 | 3.26E+00 | **1E+00** | 7E-01 | 3E-01 | 2E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-02 | 0.00E+00 | 1.16E-04 | 7.29E-02 | 1.34E-01 | 2.07E-01 | 2.07E-01 | 2.27E-02 | 6.80E-02 | **3E+00** | **1E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.83E-01 | 0.00E+00 | 4.62E-03 | 1.67E+00 | 4.15E-01 | 2.08E+00 | 2.09E+00 | 3.44E-01 | 7.00E-01 | **5E+00** | **2E+00** | **1E+00** | 6E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E-02 | 0.00E+00 | 4.23E-05 | 1.46E-01 | 2.82E-01 | 4.28E-01 | 4.28E-01 | 4.33E-02 | 1.30E-01 | **3E+00** | **1E+00** | **7E+00** | **2E+00** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 2.29E-01 | 0.00E+00 | 3.39E-03 | 4.10E-03 | 8.93E-06 | 1.26E-01 | 2.34E-01 | 3.60E-01 | 3.60E-01 | 4.67E-01 | 1.40E+00 | 3E-01 | 9E-02 | 5E-01 | 2E-01 |
| | **Barium** | 0.00E+00 | 7.44E-02 | 0.00E+00 | 6.35E-01 | 1.23E-01 | 6.90E-03 | 2.68E+00 | 1.97E-01 | 2.87E+00 | 2.88E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 6E-02 | 9E-03 | 5E-03 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.01E-01 | 6.21E-02 | 1.03E-03 | 5.64E-01 | 1.56E-01 | 7.20E-01 | 7.21E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 6E-02 | 6E-02 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 1.15E-01 | 1.78E-02 | 6.95E-04 | 1.20E+00 | 2.53E-01 | 1.46E+00 | 1.46E+00 | 7.61E+00 | 7.80E+00 | 2E-01 | 2E-01 | 3E-02 | 3E-02 |
| | **Lead** | 0.00E+00 | 8.53E-03 | 0.00E+00 | 1.80E-01 | 4.20E-02 | 3.84E-03 | 4.48E-01 | 5.06E-02 | 4.99E-01 | 5.03E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 1E-01 | 3E-02 | 2E-02 |
| | **Mercury** | 0.00E+00 | 1.12E-02 | 0.00E+00 | 2.45E-03 | 3.72E-03 | 2.45E-05 | 7.63E-03 | 1.49E-02 | 2.25E-02 | 2.26E-02 | 2.27E-02 | 6.80E-02 | 3E-01 | 1E-01 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.32E-01 | 3.47E-02 | 9.75E-04 | 5.67E-01 | 1.29E-01 | 6.96E-01 | 6.97E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 4E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 2.29E-01 | 0.00E+00 | 3.39E-03 | 4.10E-03 | 8.93E-06 | 1.26E-01 | 2.34E-01 | 3.60E-01 | 3.60E-01 | 4.33E-02 | 1.30E-01 | **3E+00** | 1E+00 | **5E+00** | **2E+00** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.18E-02 | 1.58E-03 | 1.87E-03 | 0.00E+00 | 1.30E-05 | 2.62E-02 | 2.71E-02 | 5.32E-02 | 5.33E-02 | 2.30E-01 | 6.80E-01 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Barium** | 0.00E+00 | 3.83E-03 | 2.54E-02 | 3.51E-01 | 0.00E+00 | 1.00E-02 | 2.45E+00 | 5.67E-01 | 3.01E+00 | 3.02E+00 | 5.18E+01 | 1.21E+02 | 5E-02 | 2E-02 | 1E-02 | 5E-03 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 1.21E-02 | 5.60E-02 | 0.00E+00 | 1.49E-03 | 2.18E-01 | 2.20E-02 | 2.40E-01 | 2.41E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 8E-02 | 9E-03 | 8E-03 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 1.22E-03 | 6.35E-02 | 0.00E+00 | 1.01E-03 | 2.68E-01 | 8.32E-02 | 3.51E-01 | 3.52E-01 | 7.33E+00 | 1.00E+01 | 4E-02 | 3E-02 | 1E-02 | 8E-03 |
| | **Lead** | 0.00E+00 | 4.39E-04 | 2.91E-03 | 9.94E-02 | 0.00E+00 | 5.59E-03 | 2.47E-01 | 7.65E-03 | 2.55E-01 | 2.60E-01 | 4.70E+00 | 8.90E+00 | 5E-02 | 3E-02 | 2E-03 | 9E-04 |
| | **Mercury** | 0.00E+00 | 5.76E-04 | 4.20E-04 | 1.35E-03 | 0.00E+00 | 3.57E-05 | 9.32E-03 | 1.89E-03 | 1.12E-02 | 1.12E-02 | 7.50E-02 | 1.50E-01 | 1E-01 | 6E-02 | 3E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 1.10E-03 | 7.26E-02 | 0.00E+00 | 1.42E-03 | 1.81E-01 | 1.11E-02 | 1.93E-01 | 1.94E-01 | 4.16E+00 | 8.31E+00 | 4E-02 | 2E-02 | 3E-03 | 1E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 2.81E-02 | 2.50E-03 | 2.84E-03 | 3.44E-03 | 2.35E-05 | 2.47E-01 | 3.41E-02 | 2.81E-01 | 2.81E-01 | 2.30E-01 | 6.80E-01 | **1E+00** | 4E-01 | 1E-01 | 5E-02 |
| | **Barium** | 0.00E+00 | 9.13E-03 | 4.04E-02 | 5.33E-01 | 1.03E-01 | 1.82E-02 | 1.20E+01 | 1.53E-01 | 1.21E+01 | 1.21E+01 | 5.18E+01 | 1.21E+02 | 2E-01 | 1E-01 | 3E-03 | 1E-03 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 1.92E-02 | 8.51E-02 | 5.22E-02 | 2.70E-03 | 1.86E+00 | 8.29E-02 | 1.94E+00 | 1.94E+00 | 2.40E+00 | 2.82E+00 | 8E-01 | 7E-01 | 3E-02 | 3E-02 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 1.94E-03 | 9.66E-02 | 1.50E-02 | 1.83E-03 | 2.26E+00 | 4.57E-02 | 2.30E+00 | 2.30E+00 | 7.33E+00 | 1.00E+01 | 3E-01 | 2E-01 | 6E-03 | 5E-03 |
| | **Lead** | 0.00E+00 | 1.05E-03 | 4.62E-03 | 1.51E-01 | 3.53E-02 | 1.01E-02 | 2.13E+00 | 4.09E-02 | 2.18E+00 | 2.19E+00 | 4.70E+00 | 8.90E+00 | 5E-01 | 2E-01 | 9E-03 | 5E-03 |
| | **Mercury** | 0.00E+00 | 1.37E-03 | 6.67E-04 | 2.06E-03 | 3.13E-03 | 6.45E-05 | 1.08E-01 | 5.17E-03 | 1.13E-01 | 1.13E-01 | 7.50E-02 | 1.50E-01 | **1E+00** | 7E-01 | 7E-02 | 3E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 1.75E-03 | 1.10E-01 | 2.91E-02 | 2.57E-03 | 1.51E+00 | 4.24E-02 | 1.55E+00 | 1.56E+00 | 4.16E+00 | 8.31E+00 | 4E-01 | 2E-01 | 1E-02 | 5E-03 |

**Table E3-128**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Barium** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Lead** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Mercury** | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| **Hawk - mid** | **tPCB-med** | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| | **Barium** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| **Raccoon - 1** | **tPCB** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Barium** | 6E-02 | 2E-02 | 6E-02 | 2E-02 |
| | **Chromium** | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 5E-02 | 4E-02 | 5E-02 | 4E-02 |
| | **Lead** | 5E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Mercury** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Vanadium** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Lead** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-129**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.34E+00** | **8.97E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.10E+02** | **2.69E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.95E+01** | **1.36E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.08E+01** | **3.90E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.48E+01** | **9.20E+00** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.75E+00** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.99E+01** | **7.60E+00** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.34E+00** | **8.97E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.34E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **1.10E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **2.95E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **1.08E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **2.48E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **1.75E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **2.99E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.34E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.34E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **1.10E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **2.95E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **1.08E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **2.48E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **1.75E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **2.99E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **1.34E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **1.10E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **2.95E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **1.08E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **2.48E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **1.75E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **2.99E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-129**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-129**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-129**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-129**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.45E+01 | 2.18E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.45E+01 | 2.18E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 2.45E+01 | 2.18E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 2.45E+01 | 2.18E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 2.45E+01 | 2.18E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 2.45E+01 | 2.18E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-129**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.07E-03 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.50E-02 | 0.00E+00 | 2.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 8.70E-01 | 0.00E+00 | 0.00E+00 | 3.29E+00 | 0.00E+00 | 4.73E-01 | 0.00E+00 | 1.66E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 8.40E-02 | 0.00E+00 | 0.00E+00 | 9.90E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 9.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 3.38E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 2.53E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.02E-01 | 0.00E+00 | 0.00E+00 | 6.00E-01 | 0.00E+00 | 2.24E-02 | 0.00E+00 | 4.60E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.43E-03 | 0.00E+00 | 0.00E+00 | 1.09E-01 | 0.00E+00 | 1.25E-02 | 0.00E+00 | 1.32E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 5.49E-02 | 0.00E+00 | 0.00E+00 | 6.85E-01 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 3.60E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.07E-03 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.50E-02 | 0.00E+00 | 2.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.15E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 9.23E-03 | 0.00E+00 | 1.54E-02 | 0.00E+00 | 6.12E-04 | 1.54E-02 | 0.00E+00 | 3.46E-03 | 0.00E+00 | 0.00E+00 | 1.83E-03 | 1.19E-02 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 1.13E+00 | 0.00E+00 | 2.42E-01 | 0.00E+00 | 1.16E-02 | 2.42E-01 | 0.00E+00 | 3.30E-02 | 0.00E+00 | 0.00E+00 | 5.33E-01 | 4.69E-03 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 3.13E-02 | 0.00E+00 | 7.26E-02 | 0.00E+00 | 1.98E-02 | 7.26E-02 | 0.00E+00 | 1.25E-02 | 0.00E+00 | 0.00E+00 | 3.63E-03 | 1.40E-03 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 7.22E-03 | 0.00E+00 | 2.48E-02 | 0.00E+00 | 4.95E-02 | 2.48E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.71E-04 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 9.19E-04 | 0.00E+00 | 4.40E-02 | 0.00E+00 | 5.48E-04 | 4.40E-02 | 0.00E+00 | 3.45E-03 | 0.00E+00 | 0.00E+00 | 4.15E-03 | 1.39E-04 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.03E-03 | 0.00E+00 | 7.97E-03 | 0.00E+00 | 3.06E-04 | 7.97E-03 | 0.00E+00 | 3.45E-04 | 0.00E+00 | 0.00E+00 | 6.25E-04 | 2.67E-04 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.50E-03 | 0.00E+00 | 5.02E-02 | 0.00E+00 | 6.58E-04 | 5.02E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.97E-03 | 2.19E-04 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 1.70E-02 | 0.00E+00 | 3.02E-01 | 0.00E+00 | 5.10E-03 | 1.29E-01 | 0.00E+00 | 1.55E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.08E+00 | 0.00E+00 | 4.72E+00 | 0.00E+00 | 9.65E-02 | 2.02E+00 | 0.00E+00 | 1.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.76E-02 | 0.00E+00 | 1.42E+00 | 0.00E+00 | 1.65E-01 | 6.06E-01 | 0.00E+00 | 5.64E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 1.33E-02 | 0.00E+00 | 4.84E-01 | 0.00E+00 | 4.13E-01 | 2.07E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.69E-03 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 4.57E-03 | 3.67E-01 | 0.00E+00 | 1.55E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.90E-03 | 0.00E+00 | 1.56E-01 | 0.00E+00 | 2.55E-03 | 6.64E-02 | 0.00E+00 | 1.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 4.61E-03 | 0.00E+00 | 9.81E-01 | 0.00E+00 | 5.48E-03 | 4.19E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-129**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.58E-02 | 0.00E+00 | 4.23E-05 | 2.81E-01 | 2.82E-01 | 5.63E-01 | 5.63E-01 | 4.67E-01 | 1.40E+00 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.76E+00 | 0.00E+00 | 3.27E-02 | 7.52E+00 | 2.53E+00 | 1.01E+01 | 1.01E+01 | 2.08E+01 | 4.17E+01 | 4E-01 | 2E-01 | 1E-01 | 6E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 4.86E-03 | 2.81E+00 | 1.03E+00 | 3.83E+00 | 3.84E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | 1E+00 | 4E-01 | 4E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.67E-01 | 0.00E+00 | 3.29E-03 | 2.73E+00 | 1.01E+00 | 3.74E+00 | 3.75E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 3E-01 | 1E-01 | 1E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.47E-01 | 0.00E+00 | 1.82E-02 | 1.47E+00 | 5.62E-01 | 2.03E+00 | 2.05E+00 | 1.63E+00 | 3.26E+00 | 9E-01 | 5E-01 | 3E-01 | 2E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E-02 | 0.00E+00 | 1.16E-04 | 1.81E-01 | 1.34E-01 | 3.15E-01 | 3.15E-01 | 2.27E-02 | 6.80E-02 | **8E+00** | **3E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 4.62E-03 | 1.73E+00 | 4.15E-01 | 2.15E+00 | 2.15E+00 | 3.44E-01 | 7.00E-01 | **5E+00** | **2E+00** | **1E+00** | 6E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.58E-02 | 0.00E+00 | 4.23E-05 | 2.81E-01 | 2.82E-01 | 5.63E-01 | 5.63E-01 | 4.33E-02 | 1.30E-01 | **6E+00** | **2E+00** | **7E+00** | **2E+00** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 2.29E-01 | 0.00E+00 | 6.13E-03 | 4.10E-03 | 8.93E-06 | 1.76E-01 | 2.34E-01 | 4.09E-01 | 4.09E-01 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | 5E-01 | 2E-01 |
| | **Barium** | 0.00E+00 | 7.44E-02 | 0.00E+00 | 5.03E-01 | 1.23E-01 | 6.90E-03 | 2.12E+00 | 1.97E-01 | 2.32E+00 | 2.32E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 5E-02 | 9E-03 | 5E-03 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.35E-01 | 6.21E-02 | 1.03E-03 | 7.50E-01 | 1.56E-01 | 9.06E-01 | 9.07E-01 | 2.66E+00 | 2.80E+00 | 3E-01 | 3E-01 | 6E-02 | 6E-02 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 4.92E-02 | 1.78E-02 | 6.95E-04 | 1.14E+00 | 2.53E-01 | 1.39E+00 | 1.39E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 3E-02 | 3E-02 |
| | **Lead** | 0.00E+00 | 8.53E-03 | 0.00E+00 | 1.13E-01 | 4.20E-02 | 3.84E-03 | 2.82E-01 | 5.06E-02 | 3.33E-01 | 3.37E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 9E-02 | 3E-02 | 2E-02 |
| | **Mercury** | 0.00E+00 | 1.12E-02 | 0.00E+00 | 8.00E-03 | 3.72E-03 | 2.45E-05 | 2.49E-02 | 1.49E-02 | 3.98E-02 | 3.98E-02 | 2.27E-02 | 6.80E-02 | **1E+00** | 4E-01 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.36E-01 | 3.47E-02 | 9.75E-04 | 5.72E-01 | 1.29E-01 | 7.01E-01 | 7.02E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 4E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 2.29E-01 | 0.00E+00 | 6.13E-03 | 4.10E-03 | 8.93E-06 | 1.76E-01 | 2.34E-01 | 4.09E-01 | 4.09E-01 | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **5E+00** | **2E+00** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.18E-02 | 1.58E-03 | 3.38E-03 | 0.00E+00 | 1.30E-05 | 4.76E-02 | 2.71E-02 | 7.47E-02 | 7.47E-02 | 2.30E-01 | 6.80E-01 | 2E-01 | 7E-02 | 1E-01 | 4E-02 |
| | **Barium** | 0.00E+00 | 3.83E-03 | 2.54E-02 | 2.78E-01 | 0.00E+00 | 1.00E-02 | 1.94E+00 | 5.67E-01 | 2.50E+00 | 2.51E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 1E-02 | 5E-03 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 1.21E-02 | 7.44E-02 | 0.00E+00 | 1.49E-03 | 2.83E-01 | 2.20E-02 | 3.05E-01 | 3.07E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 9E-03 | 8E-03 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 1.22E-03 | 2.71E-02 | 0.00E+00 | 1.01E-03 | 1.56E-01 | 8.32E-02 | 2.39E-01 | 2.40E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 2E-02 | 1E-02 | 8E-03 |
| | **Lead** | 0.00E+00 | 4.39E-04 | 2.91E-03 | 6.26E-02 | 0.00E+00 | 5.59E-03 | 1.56E-01 | 7.65E-03 | 1.63E-01 | 1.69E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 2E-02 | 2E-03 | 9E-04 |
| | **Mercury** | 0.00E+00 | 5.76E-04 | 4.20E-04 | 4.41E-03 | 0.00E+00 | 3.57E-05 | 2.20E-02 | 1.89E-03 | 2.39E-02 | 2.40E-02 | 7.50E-02 | 1.50E-01 | 3E-01 | 1E-01 | 3E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 1.10E-03 | 7.53E-02 | 0.00E+00 | 1.42E-03 | 1.88E-01 | 1.11E-02 | 1.99E-01 | 2.00E-01 | 4.16E+00 | 8.31E+00 | 5E-02 | 2E-02 | 3E-03 | 1E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 2.81E-02 | 2.50E-03 | 5.15E-03 | 3.44E-03 | 2.35E-05 | 4.73E-01 | 3.41E-02 | 5.07E-01 | 5.07E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 7E-01 | 1E-01 | 5E-02 |
| | **Barium** | 0.00E+00 | 9.13E-03 | 4.04E-02 | 4.22E-01 | 1.03E-01 | 1.82E-02 | 9.49E+00 | 1.53E-01 | 9.64E+00 | 9.66E+00 | 5.18E+01 | 1.21E+02 | 2E-01 | 8E-02 | 3E-03 | 1E-03 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 1.92E-02 | 1.13E-01 | 5.22E-02 | 2.70E-03 | 2.42E+00 | 8.29E-02 | 2.50E+00 | 2.50E+00 | 2.40E+00 | 2.82E+00 | 1E+00 | 9E-01 | 3E-02 | 3E-02 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 1.94E-03 | 4.13E-02 | 1.50E-02 | 1.83E-03 | 1.26E+00 | 4.57E-02 | 1.30E+00 | 1.30E+00 | 7.33E+00 | 1.00E+01 | 2E-01 | 1E-01 | 6E-03 | 5E-03 |
| | **Lead** | 0.00E+00 | 1.05E-03 | 4.62E-03 | 9.51E-02 | 3.53E-02 | 1.01E-02 | 1.34E+00 | 4.09E-02 | 1.39E+00 | 1.40E+00 | 4.70E+00 | 8.90E+00 | 3E-01 | 2E-01 | 9E-03 | 5E-03 |
| | **Mercury** | 0.00E+00 | 1.37E-03 | 6.67E-04 | 6.71E-03 | 3.13E-03 | 6.45E-05 | 2.35E-01 | 5.17E-03 | 2.40E-01 | 2.40E-01 | 7.50E-02 | 1.50E-01 | **3E+00** | **2E+00** | 7E-02 | 3E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 1.75E-03 | 1.15E-01 | 2.91E-02 | 2.57E-03 | 1.56E+00 | 4.24E-02 | 1.61E+00 | 1.61E+00 | 4.16E+00 | 8.31E+00 | 4E-01 | 2E-01 | 1E-02 | 5E-03 |

**Table E3-129**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Mercury** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Hawk - mid** | **tPCB-med** | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Barium** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| **Raccoon - 1** | **tPCB** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Barium** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 3E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 1E+00 | 9E-01 | 1E+00 | 9E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-130**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C7, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.07E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.78E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.50E+00** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.21E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.54E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.07E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **2.78E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **8.50E+00** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **3.21E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **1.54E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Barium** | **1.07E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Chromium** | **2.78E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Cobalt** | **8.50E+00** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Lead** | **3.21E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Vanadium** | **1.54E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 2** | **tPCB-mink** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Barium** | **1.07E+02** | **2.69E+01** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Chromium** | **2.78E+01** | **1.36E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Cobalt** | **8.50E+00** | **3.90E+00** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Lead** | **3.21E+01** | **9.20E+00** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Vanadium** | **1.54E+01** | **7.60E+00** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Raccoon - 1** | **tPCB** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Barium** | **1.07E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Chromium** | **2.78E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Cobalt** | **8.50E+00** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Lead** | **3.21E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Vanadium** | **1.54E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| **Raccoon - 2** | **tPCB** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Barium** | **1.07E+02** | **2.69E+01** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Chromium** | **2.78E+01** | **1.36E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Cobalt** | **8.50E+00** | **3.90E+00** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Lead** | **3.21E+01** | **9.20E+00** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Vanadium** | **1.54E+01** | **7.60E+00** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |

**Table E3-130**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C7, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| Spotted Sandpiper - 1 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| Spotted Sandpiper - 1 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| GBH - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| GBH - high | tPCB-high | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| Mink - 1 | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 2 | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| Raccoon - 2 | tPCB | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Barium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Chromium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Cobalt | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Lead | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Mercury | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Vanadium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table E3-130**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C7, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| **GBH - mid** | **tPCB-med** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **GBH - high** | **tPCB-high** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| **Mink - 1** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Mink - 2** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 1** | **tPCB** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 2** | **tPCB** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |

**Table E3-130**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C7, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | |
|---|---|---|---|---|---|
| | | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **GBH - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **GBH - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **Mink - 1** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Mink - 2** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 1** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 2** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |

**Table E3-130**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C7, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| **GBH - mid** | **tPCB-med** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **GBH - high** | **tPCB-high** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| **Mink - 1** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Mink - 2** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Raccoon - 1** | **tPCB** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Raccoon - 2** | **tPCB** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |

**Table E3-130**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C7, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 2.18E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.60E-02 | 1.05E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.19E+00 | 7.79E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 2.27E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.32E-01 | 6.49E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 6.53E-01 | 1.89E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.64E-02 | 4.11E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.96E-01 | 8.59E-01 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 2.18E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.60E-02 | 1.05E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 2.18E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 2.18E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.14E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.14E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.96E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.90E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.23E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.24E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 2.18E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 3.16E-02 | 0.00E+00 | 1.19E-03 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.10E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00 | 1.12E-02 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.95E-02 | 0.00E+00 | 6.84E-02 | 0.00E+00 | 1.98E-02 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.71E-03 | 0.00E+00 | 1.96E-02 | 0.00E+00 | 4.95E-02 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.19E-03 | 0.00E+00 | 5.70E-02 | 0.00E+00 | 7.10E-04 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.78E-03 | 0.00E+00 | 1.24E-02 | 0.00E+00 | 5.27E-04 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.29E-03 | 0.00E+00 | 2.59E-02 | 0.00E+00 | 3.39E-04 |
| **Raccoon - 2** | **tPCB** | 2.18E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.05E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.81E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.75E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.13E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.98E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.14E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-130**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C7, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.20E-02 | 1.44E-02 | 2.66E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.71E+00 | 4.31E-01 | 2.06E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.45E-01 | 2.18E-01 | 3.06E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 6.25E-02 | 2.07E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.14E-01 | 1.47E-01 | 1.14E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.83E-02 | 1.31E-02 | 7.31E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 1.22E-01 | 2.91E-03 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.20E-02 | 1.44E-02 | 2.66E-05 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 6.16E-03 | 0.00E+00 | 0.00E+00 | 9.22E-04 | 3.33E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-02 | 0.00E+00 | 3.16E-03 | 7.05E-06 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 3.97E-02 | 0.00E+00 | 0.00E+00 | 2.69E-01 | 1.32E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.23E-01 | 0.00E+00 | 9.47E-02 | 5.45E-03 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.46E-02 | 0.00E+00 | 0.00E+00 | 1.83E-03 | 3.93E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-01 | 0.00E+00 | 4.79E-02 | 8.10E-04 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 4.79E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E-02 | 0.00E+00 | 1.37E-02 | 5.49E-04 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 5.52E-03 | 0.00E+00 | 0.00E+00 | 2.10E-03 | 3.90E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.55E-02 | 0.00E+00 | 3.24E-02 | 3.03E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 7.36E-04 | 0.00E+00 | 0.00E+00 | 3.16E-04 | 7.48E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.67E-03 | 0.00E+00 | 2.87E-03 | 1.94E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 2.51E-03 | 6.13E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.66E-03 | 0.00E+00 | 2.68E-02 | 7.70E-04 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 6.16E-03 | 0.00E+00 | 0.00E+00 | 9.22E-04 | 3.33E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-02 | 0.00E+00 | 3.16E-03 | 7.05E-06 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 7.62E-02 | 0.00E+00 | 0.00E+00 | 2.33E-03 | 0.00E+00 | 0.00E+00 | 1.80E-01 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 7.62E-02 | 0.00E+00 | 0.00E+00 | 2.33E-03 | 0.00E+00 | 0.00E+00 | 1.80E-01 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 4.90E-01 | 0.00E+00 | 0.00E+00 | 6.80E-01 | 0.00E+00 | 0.00E+00 | 2.62E-01 | 0.00E+00 | 4.06E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.81E-01 | 0.00E+00 | 0.00E+00 | 4.64E-03 | 0.00E+00 | 0.00E+00 | 8.36E-02 | 0.00E+00 | 1.93E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 1.96E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 6.82E-02 | 0.00E+00 | 0.00E+00 | 5.30E-03 | 0.00E+00 | 0.00E+00 | 2.08E-03 | 0.00E+00 | 4.65E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 9.09E-03 | 0.00E+00 | 0.00E+00 | 7.98E-04 | 0.00E+00 | 0.00E+00 | 3.88E-03 | 0.00E+00 | 6.71E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 6.34E-03 | 0.00E+00 | 0.00E+00 | 1.27E-02 | 0.00E+00 | 1.76E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 1.04E-02 | 0.00E+00 | 0.00E+00 | 1.04E-03 | 0.00E+00 | 0.00E+00 | 7.37E-01 | 0.00E+00 | 2.91E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 1.04E-02 | 0.00E+00 | 0.00E+00 | 1.04E-03 | 0.00E+00 | 0.00E+00 | 7.37E-01 | 0.00E+00 | 2.91E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 6.69E-02 | 0.00E+00 | 0.00E+00 | 3.02E-01 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 4.69E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.47E-02 | 0.00E+00 | 0.00E+00 | 2.06E-03 | 0.00E+00 | 0.00E+00 | 3.43E-01 | 0.00E+00 | 2.23E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.26E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 9.31E-03 | 0.00E+00 | 0.00E+00 | 2.36E-03 | 0.00E+00 | 0.00E+00 | 8.52E-03 | 0.00E+00 | 5.37E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.24E-03 | 0.00E+00 | 0.00E+00 | 3.55E-04 | 0.00E+00 | 0.00E+00 | 1.59E-02 | 0.00E+00 | 7.74E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 2.82E-03 | 0.00E+00 | 0.00E+00 | 5.19E-02 | 0.00E+00 | 2.04E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| **Raccoon - 1** | **tPCB** | 3.16E-02 | 0.00E+00 | 4.98E-03 | 0.00E+00 | 0.00E+00 | 1.83E-03 | 1.19E-02 | 0.00E+00 | 0.00E+00 | 1.18E-02 | 1.58E-03 | 6.60E-03 | 0.00E+00 | 1.30E-05 |
| | **Barium** | 2.35E-01 | 0.00E+00 | 3.20E-02 | 0.00E+00 | 0.00E+00 | 5.33E-01 | 4.69E-03 | 0.00E+00 | 0.00E+00 | 3.83E-03 | 2.54E-02 | 2.70E-01 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | 6.84E-02 | 0.00E+00 | 1.18E-02 | 0.00E+00 | 0.00E+00 | 3.63E-03 | 1.40E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.21E-02 | 7.01E-02 | 0.00E+00 | 1.49E-03 |
| | **Cobalt** | 1.96E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.71E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.22E-03 | 2.14E-02 | 0.00E+00 | 1.01E-03 |
| | **Lead** | 5.70E-02 | 0.00E+00 | 4.46E-03 | 0.00E+00 | 0.00E+00 | 4.15E-03 | 1.39E-04 | 0.00E+00 | 0.00E+00 | 4.39E-04 | 2.91E-03 | 8.09E-02 | 0.00E+00 | 5.59E-03 |
| | **Mercury** | 1.24E-02 | 0.00E+00 | 5.94E-04 | 0.00E+00 | 0.00E+00 | 6.25E-04 | 2.67E-04 | 0.00E+00 | 0.00E+00 | 5.76E-04 | 4.20E-04 | 7.61E-03 | 0.00E+00 | 3.57E-05 |
| | **Vanadium** | 2.59E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.97E-03 | 2.19E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.10E-03 | 3.88E-02 | 0.00E+00 | 1.42E-03 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.78E-02 | 4.17E-02 | 2.27E-02 | 1.83E-03 | 1.24E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.31E-03 | 0.00E+00 | 2.26E-03 | 1.30E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.15E-01 | 1.98E-02 | 7.49E-02 | 5.33E-01 | 4.90E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 6.78E-02 | 1.00E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.24E-02 | 3.86E-03 | 6.02E-02 | 3.63E-03 | 1.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.84E-02 | 0.00E+00 | 3.43E-02 | 1.49E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 7.96E-02 | 3.91E-03 | 2.30E-02 | 6.97E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.90E-03 | 0.00E+00 | 9.83E-03 | 1.01E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.60E-02 | 5.90E-03 | 3.34E-02 | 4.15E-03 | 1.45E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-02 | 0.00E+00 | 2.32E-02 | 5.59E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.13E-03 | 6.56E-04 | 2.35E-03 | 6.25E-04 | 2.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-03 | 0.00E+00 | 2.06E-03 | 3.57E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 3.19E-02 | 2.67E-03 | 1.47E-02 | 4.97E-03 | 2.29E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.42E-03 | 0.00E+00 | 1.92E-02 | 1.42E-03 |

**Table E3-130**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C7, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.09E+00 | 6.04E-02 | 1.15E+00 | 1.15E+00 | 4.67E-01 | 1.40E+00 | **2E+00** | 8E-01 | 1E-01 | 4E-02 | **2E+00** | 8E-01 | **2E+00** |
| | **Barium** | 9.51E+00 | 2.62E+00 | 1.21E+01 | 1.21E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 2E-01 | 1E-01 | 6E-02 | 6E-01 | 3E-01 | 6E-01 |
| | **Chromium** | 2.72E+00 | 6.45E-01 | 3.36E+00 | 3.36E+00 | 2.66E+00 | 2.80E+00 | 1E+00 | 1E+00 | 2E-01 | 2E-01 | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 7.85E-01 | 4.95E-01 | 1.28E+00 | 1.28E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 7E-02 | 6E-02 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 2.40E+00 | 8.00E-01 | 3.21E+00 | 3.22E+00 | 1.63E+00 | 3.26E+00 | **1E+00** | 7E-01 | 5E-01 | 2E-01 | **2E+00** | 1E+00 | **2E+00** |
| | **Mercury** | 4.60E-01 | 3.95E-02 | 4.99E-01 | 4.99E-01 | 2.27E-02 | 6.80E-02 | **2E+01** | **7E+00** | **2E+00** | 6E-01 | **2E+01** | **7E+00** | **2E+01** |
| | **Vanadium** | 1.11E+00 | 4.17E-01 | 1.52E+00 | 1.53E+00 | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **1E+00** | 6E-01 | **4E+00** | **2E+00** | **4E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.09E+00 | 6.04E-02 | 1.15E+00 | 1.15E+00 | 4.33E-02 | 1.30E-01 | **3E+01** | **8E+00** | **1E+00** | 5E-01 | **3E+01** | **9E+00** | **3E+01** |
| **GBH - mid** | **tPCB-med** | 6.16E-03 | 3.35E+00 | 3.35E+00 | 3.35E+00 | 4.67E-01 | 1.40E+00 | 1E-02 | 4E-03 | **7E+00** | **2E+00** | **7E+00** | **2E+00** | **7E+00** |
| | **Barium** | 3.97E-02 | 1.90E+00 | 1.94E+00 | 1.95E+00 | 2.08E+01 | 4.17E+01 | 2E-03 | 1E-03 | 9E-02 | 5E-02 | 9E-02 | 5E-02 | 9E-02 |
| | **Chromium** | 1.46E-02 | 5.49E-01 | 5.63E-01 | 5.64E-01 | 2.66E+00 | 2.80E+00 | 6E-03 | 5E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 2.75E-02 | 1.08E-01 | 1.35E-01 | 1.36E-01 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 1E-02 | 1E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 5.52E-03 | 9.90E-02 | 1.04E-01 | 1.08E-01 | 1.63E+00 | 3.26E+00 | 3E-03 | 2E-03 | 6E-02 | 3E-02 | 6E-02 | 3E-02 | 7E-02 |
| | **Mercury** | 7.36E-04 | 8.16E-02 | 8.24E-02 | 8.24E-02 | 2.27E-02 | 6.80E-02 | 3E-02 | 1E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** | **4E+00** |
| | **Vanadium** | 1.10E-02 | 1.00E-01 | 1.11E-01 | 1.12E-01 | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 3E-01 | 1E-01 | 3E-01 | 2E-01 | 3E-01 |
| **GBH - high** | **tPCB-high** | 6.16E-03 | 3.35E+00 | 3.35E+00 | 3.35E+00 | 4.33E-02 | 1.30E-01 | 1E-01 | 5E-02 | **8E+01** | **3E+01** | **8E+01** | **3E+01** | **8E+01** |
| **Mink - 1** | **tPCB-mink** | 7.62E-02 | 2.07E-01 | 2.84E-01 | 2.84E-01 | 5.00E-02 | 1.00E-01 | **2E+00** | 8E-01 | **4E+00** | **2E+00** | **6E+00** | **3E+00** | **6E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 7.62E-02 | 2.07E-01 | 2.84E-01 | 2.84E-01 | na | 5.00E-02 | **--** | **2E+00** | **--** | **4E+00** | **--** | **6E+00** | **--** |
| | **Barium** | 4.90E-01 | 1.35E+00 | 1.84E+00 | 1.85E+00 | 5.18E+01 | 1.21E+02 | 9E-03 | 4E-03 | 3E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 |
| | **Chromium** | 1.81E-01 | 2.82E-01 | 4.62E-01 | 4.64E-01 | 2.40E+00 | 2.82E+00 | 8E-02 | 6E-02 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 3.40E-01 | 3.09E-01 | 6.49E-01 | 6.50E-01 | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 | 6E-02 | 9E-02 |
| | **Lead** | 6.82E-02 | 5.39E-02 | 1.22E-01 | 1.29E-01 | 4.70E+00 | 8.90E+00 | 1E-02 | 8E-03 | 1E-02 | 6E-03 | 3E-02 | 1E-02 | 3E-02 |
| | **Mercury** | 9.09E-03 | 1.14E-02 | 2.05E-02 | 2.05E-02 | 7.50E-02 | 1.50E-01 | 1E-01 | 6E-02 | 2E-01 | 8E-02 | 3E-01 | 1E-01 | 3E-01 |
| | **Vanadium** | 1.36E-01 | 3.67E-02 | 1.73E-01 | 1.74E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 4E-03 | 4E-02 | 2E-02 | 4E-02 |
| **Mink - 2** | **tPCB-mink** | 1.04E-02 | 7.41E-01 | 7.51E-01 | 7.51E-01 | 5.00E-02 | 1.00E-01 | 2E-01 | 1E-01 | **1E+01** | **7E+00** | **2E+01** | **8E+00** | **2E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.04E-02 | 7.41E-01 | 7.51E-01 | 7.51E-01 | na | 5.00E-02 | **--** | 2E-01 | **--** | **1E+01** | **--** | **2E+01** | **--** |
| | **Barium** | 6.69E-02 | 1.44E+00 | 1.51E+00 | 1.52E+00 | 5.18E+01 | 1.21E+02 | 1E-03 | 6E-04 | 3E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 |
| | **Chromium** | 2.47E-02 | 3.69E-01 | 3.93E-01 | 3.95E-01 | 2.40E+00 | 2.82E+00 | 1E-02 | 9E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 |
| | **Cobalt** | 4.64E-02 | 8.80E-01 | 9.27E-01 | 9.28E-01 | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 |
| | **Lead** | 9.31E-03 | 1.86E-02 | 2.79E-02 | 3.46E-02 | 4.70E+00 | 8.90E+00 | 2E-03 | 1E-03 | 4E-03 | 2E-03 | 6E-03 | 3E-03 | 7E-03 |
| | **Mercury** | 1.24E-03 | 1.71E-02 | 1.83E-02 | 1.83E-02 | 7.50E-02 | 1.50E-01 | 2E-02 | 8E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 |
| | **Vanadium** | 1.85E-02 | 5.80E-02 | 7.65E-02 | 7.82E-02 | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 | 9E-03 | 2E-02 |
| **Raccoon - 1** | **tPCB** | 1.03E-01 | 2.71E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 6.80E-01 | 4E-01 | 2E-01 | 1E-01 | 4E-02 | 6E-01 | 2E-01 | 6E-01 |
| | **Barium** | 1.88E+00 | 5.67E-01 | 2.45E+00 | 2.46E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 1E-02 | 5E-03 | 5E-02 | 2E-02 | 5E-02 |
| | **Chromium** | 2.68E-01 | 2.20E-02 | 2.90E-01 | 2.91E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 9E-03 | 8E-03 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 1.38E-01 | 8.32E-02 | 2.21E-01 | 2.22E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 |
| | **Lead** | 2.01E-01 | 7.65E-03 | 2.09E-01 | 2.14E-01 | 4.70E+00 | 8.90E+00 | 4E-02 | 2E-02 | 2E-03 | 9E-04 | 4E-02 | 2E-02 | 5E-02 |
| | **Mercury** | 3.53E-02 | 1.89E-03 | 3.72E-02 | 3.72E-02 | 7.50E-02 | 1.50E-01 | 5E-01 | 2E-01 | 3E-02 | 1E-02 | 5E-01 | 2E-01 | 5E-01 |
| | **Vanadium** | 1.01E-01 | 1.11E-02 | 1.12E-01 | 1.14E-01 | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 1E-02 | 3E-02 |
| **Raccoon - 2** | **tPCB** | 1.78E-02 | 2.00E-01 | 2.18E-01 | 2.18E-01 | 2.30E-01 | 6.80E-01 | 8E-02 | 3E-02 | 9E-01 | 3E-01 | 9E-01 | 3E-01 | 9E-01 |
| | **Barium** | 1.15E-01 | 1.03E+00 | 1.14E+00 | 1.15E+00 | 5.18E+01 | 1.21E+02 | 2E-03 | 9E-04 | 2E-02 | 8E-03 | 2E-02 | 9E-03 | 2E-02 |
| | **Chromium** | 4.24E-02 | 1.83E-01 | 2.25E-01 | 2.26E-01 | 2.40E+00 | 2.82E+00 | 2E-02 | 2E-02 | 8E-02 | 6E-02 | 9E-02 | 8E-02 | 9E-02 |
| | **Cobalt** | 7.96E-02 | 2.71E-01 | 3.51E-01 | 3.52E-01 | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 5E-02 | 4E-02 | 5E-02 |
| | **Lead** | 1.60E-02 | 1.01E-01 | 1.17E-01 | 1.23E-01 | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 3E-02 |
| | **Mercury** | 2.13E-03 | 1.05E-02 | 1.26E-02 | 1.26E-02 | 7.50E-02 | 1.50E-01 | 3E-02 | 1E-02 | 1E-01 | 7E-02 | 2E-01 | 8E-02 | 2E-01 |
| | **Vanadium** | 3.19E-02 | 5.96E-02 | 9.15E-02 | 9.29E-02 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 1E-02 | 7E-03 | 2E-02 | 1E-02 | 2E-02 |

**Table E3-130**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C7, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients |
|---|---|---|
| | | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 8E-01 |
| | **Barium** | 3E-01 |
| | **Chromium** | **1E+00** |
| | **Cobalt** | 2E-01 |
| | **Lead** | 1E+00 |
| | **Mercury** | **7E+00** |
| | **Vanadium** | **2E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **9E+00** |
| **GBH - mid** | **tPCB-med** | **2E+00** |
| | **Barium** | 5E-02 |
| | **Chromium** | 2E-01 |
| | **Cobalt** | 2E-02 |
| | **Lead** | 3E-02 |
| | **Mercury** | **1E+00** |
| | **Vanadium** | 2E-01 |
| **GBH - high** | **tPCB-high** | **3E+01** |
| **Mink - 1** | **tPCB-mink** | **3E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **6E+00** |
| | **Barium** | 2E-02 |
| | **Chromium** | 2E-01 |
| | **Cobalt** | 7E-02 |
| | **Lead** | 1E-02 |
| | **Mercury** | 1E-01 |
| | **Vanadium** | 2E-02 |
| **Mink - 2** | **tPCB-mink** | **8E+00** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2E+01** |
| | **Barium** | 1E-02 |
| | **Chromium** | 1E-01 |
| | **Cobalt** | 9E-02 |
| | **Lead** | 4E-03 |
| | **Mercury** | 1E-01 |
| | **Vanadium** | 9E-03 |
| **Raccoon - 1** | **tPCB** | 2E-01 |
| | **Barium** | 2E-02 |
| | **Chromium** | 1E-01 |
| | **Cobalt** | 2E-02 |
| | **Lead** | 2E-02 |
| | **Mercury** | 2E-01 |
| | **Vanadium** | 1E-02 |
| **Raccoon - 2** | **tPCB** | 3E-01 |
| | **Barium** | 1E-02 |
| | **Chromium** | 8E-02 |
| | **Cobalt** | 4E-02 |
| | **Lead** | 1E-02 |
| | **Mercury** | 8E-02 |
| | **Vanadium** | 1E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-131**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C7**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-131**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C7**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians |
| **Tree Swallow - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Tree Swallow - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 1 - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 2 - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Osprey - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Osprey - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Bat** | **tPCB** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Otter** | **tPCB-mink** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |

**Table E3-131**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C7**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Body Weight | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water |
| **Tree Swallow - mid** | **tPCB-med** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 2.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| | **Barium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 2.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 |
| | **Chromium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 |
| | **Cobalt** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 6.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 |
| | **Lead** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 |
| | **Mercury** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 4.94E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 |
| | **Vanadium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 |
| **Tree Swallow - high** | **tPCB-high** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 2.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 2.66E-05 |
| | **Barium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.62E-01 | 2.06E-02 |
| | **Chromium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 3.06E-03 |
| | **Cobalt** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-01 | 2.07E-03 |
| | **Lead** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-01 | 1.14E-02 |
| | **Mercury** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 4.24E-02 | 0.00E+00 | 4.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E-02 | 7.31E-05 |
| | **Vanadium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.44E-01 | 2.91E-03 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 2.66E-05 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.28E+00 | 0.00E+00 | 0.00E+00 | 2.83E-03 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E+00 | 0.00E+00 | 0.00E+00 | 8.48E-02 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 0.00E+00 | 0.00E+00 | 4.29E-02 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 2.57E-03 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 2.40E-02 | 1.88E-03 |
| **Kingfisher - 1 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.28E+00 | 0.00E+00 | 0.00E+00 | 2.83E-03 | 1.72E-05 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.13E-02 | 0.00E+00 | 4.01E+00 | 0.00E+00 | 4.28E-02 | 2.83E-03 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E+00 | 0.00E+00 | 3.95E+00 | 0.00E+00 | 3.47E-01 | 8.48E-02 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 1.33E+00 | 0.00E+00 | 1.42E-01 | 4.29E-02 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.23E-02 | 1.23E-02 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-02 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 3.25E-02 | 2.90E-02 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.01E-03 | 0.00E+00 | 7.74E-02 | 0.00E+00 | 4.41E-03 | 2.57E-03 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 1.28E-02 | 2.40E-02 | 1.88E-03 |
| **Kingfisher - 2 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.13E-02 | 0.00E+00 | 4.01E+00 | 0.00E+00 | 4.28E-02 | 2.83E-03 | 1.72E-05 |
| **Osprey - mid** | **tPCB-med** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| | **Barium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 |
| | **Chromium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 |
| | **Cobalt** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 |
| | **Lead** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 |
| | **Mercury** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.56E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 |
| | **Vanadium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 |
| **Osprey - high** | **tPCB-high** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| **Bat** | **tPCB** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 |
| | **Barium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 |
| | **Chromium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 |
| | **Cobalt** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 5.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 |
| | **Lead** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 |
| | **Mercury** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 3.65E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 |
| | **Vanadium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 |
| **Otter** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.84E-01 | 7.81E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.84E-01 | 7.81E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| | **Barium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 1.17E-01 | 3.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 |
| | **Chromium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-02 | 1.46E-02 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 |
| | **Cobalt** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E-03 | 3.49E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 |
| | **Lead** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.15E-03 | 1.64E-03 | 2.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 |
| | **Mercury** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-02 | 1.80E-02 | 6.76E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 |
| | **Vanadium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-02 | 1.14E-03 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 |

**Table E3-131**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C7**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 2.66E-01 | 2.66E-01 | 4.67E-01 | 1.40E+00 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 2.72E+00 | 2.75E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 3.21E+00 | 3.21E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 6.82E-02 | 7.07E-02 | 7.61E+00 | 7.80E+00 | 9E-03 | 9E-03 | 9E-03 | 9E-03 |
| | **Lead** | 1.62E-01 | 1.76E-01 | 1.63E+00 | 3.26E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | 4.94E-02 | 4.95E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Vanadium** | 1.40E-01 | 1.44E-01 | 3.44E-01 | 7.00E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.66E-01 | 2.66E-01 | 4.33E-02 | 1.30E-01 | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.23E-01 | 2.23E-01 | 4.67E-01 | 1.40E+00 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Barium** | 1.15E+01 | 1.16E+01 | 2.08E+01 | 4.17E+01 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Chromium** | 1.12E+00 | 1.13E+00 | 2.66E+00 | 2.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 9.16E-01 | 9.18E-01 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1.36E+00 | 1.37E+00 | 1.63E+00 | 3.26E+00 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Mercury** | 1.11E-01 | 1.11E-01 | 2.27E-02 | 6.80E-02 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | 6.99E-01 | 7.02E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.23E-01 | 2.23E-01 | 4.33E-02 | 1.30E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | 5.28E+00 | 5.28E+00 | 4.67E-01 | 1.40E+00 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 5.28E+00 | 5.29E+00 | 2.08E+01 | 4.17E+01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 1.79E+00 | 1.80E+00 | 2.66E+00 | 2.80E+00 | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Cobalt** | 3.05E+00 | 3.06E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 3.55E-01 | 3.62E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | 1.04E-01 | 1.04E-01 | 2.27E-02 | 6.80E-02 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | 2.11E-01 | 2.13E-01 | 3.44E-01 | 7.00E-01 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 5.28E+00 | 5.28E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | 4.09E+00 | 4.09E+00 | 4.67E-01 | 1.40E+00 | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Barium** | 1.03E+01 | 1.04E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 1.56E+00 | 1.56E+00 | 2.66E+00 | 2.80E+00 | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 2.94E+00 | 2.94E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 4.08E-01 | 4.15E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 9.14E-02 | 9.14E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 2.21E-01 | 2.22E-01 | 3.44E-01 | 7.00E-01 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 4.09E+00 | 4.09E+00 | 4.33E-02 | 1.30E-01 | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Osprey - mid** | **tPCB-med** | 3.73E+00 | 3.73E+00 | 4.67E-01 | 1.40E+00 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 1.04E+00 | 1.05E+00 | 2.08E+01 | 4.17E+01 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Chromium** | 3.22E-01 | 3.23E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 3.21E-02 | 3.28E-02 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 4E-03 | 4E-03 |
| | **Lead** | 3.86E-02 | 4.21E-02 | 1.63E+00 | 3.26E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.56E-02 | 7.56E-02 | 2.27E-02 | 6.80E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 8.39E-02 | 8.48E-02 | 3.44E-01 | 7.00E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | 3.73E+00 | 3.73E+00 | 4.33E-02 | 1.30E-01 | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Bat** | **tPCB** | 1.96E-01 | 1.96E-01 | 2.30E-01 | 6.80E-01 | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Barium** | 2.01E+00 | 2.03E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.37E+00 | 2.37E+00 | 2.40E+00 | 2.82E+00 | 1E+00 | 8E-01 | 1E+00 | 8E-01 |
| | **Cobalt** | 5.03E-02 | 5.23E-02 | 7.33E+00 | 1.00E+01 | 7E-03 | 5E-03 | 7E-03 | 5E-03 |
| | **Lead** | 1.20E-01 | 1.30E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 3.65E-02 | 3.66E-02 | 7.50E-02 | 1.50E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | 1.03E-01 | 1.06E-01 | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | 2.02E+00 | 2.02E+00 | 5.00E-02 | 1.00E-01 | **4E+01** | **2E+01** | **4E+01** | **2E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.02E+00 | 2.02E+00 | na | 5.00E-02 | **--** | **4E+01** | **--** | **4E+01** |
| | **Barium** | 7.09E-01 | 7.19E-01 | 5.18E+01 | 1.21E+02 | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 2.07E-01 | 2.08E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Cobalt** | 2.13E-01 | 2.14E-01 | 7.33E+00 | 1.00E+01 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 3.24E-02 | 3.79E-02 | 4.70E+00 | 8.90E+00 | 7E-03 | 4E-03 | 8E-03 | 4E-03 |
| | **Mercury** | 4.27E-02 | 4.27E-02 | 7.50E-02 | 1.50E-01 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 3.34E-02 | 3.48E-02 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 8E-03 | 4E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-132**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **7.41E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.94E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **7.41E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Blue Jay - mid** | **tPCB-med** | **7.41E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.94E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **7.41E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **7.41E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.94E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **7.41E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Shrew - 1** | **tPCB** | **7.41E-01** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.94E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **7.41E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.94E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **7.41E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.94E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **7.41E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.94E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **7.41E-01** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.36E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.22E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.94E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.88E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-132**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-02 | 1.88E-05 | 7.63E-02 | 7.63E-02 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-02 | 5.16E-05 | 1.90E-02 | 1.90E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 2.16E-03 | 7.74E-01 | 7.76E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.73E-01 | 8.08E-03 | 7.88E-01 | 7.96E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.65E-01 | 2.05E-03 | 5.83E-01 | 5.85E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-02 | 1.88E-05 | 7.63E-02 | 7.63E-02 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 8.79E-02 | 0.00E+00 | 1.59E-02 | 2.04E-05 | 1.58E-01 | 1.58E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 1.06E-03 | 0.00E+00 | 4.01E-02 | 0.00E+00 | 1.15E-02 | 5.59E-05 | 5.98E-02 | 5.99E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 4.75E-01 | 2.34E-03 | 1.21E+00 | 1.21E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 8.44E-01 | 8.75E-03 | 2.81E+00 | 2.82E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 6.17E-01 | 2.22E-03 | 7.93E-01 | 7.95E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 8.79E-02 | 0.00E+00 | 1.59E-02 | 2.04E-05 | 1.58E-01 | 1.58E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.91E-01 | 3.95E-01 | 0.00E+00 | 2.53E-02 | 4.23E-05 | 6.31E-01 | 6.31E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 6.92E-03 | 8.72E-02 | 1.80E-01 | 0.00E+00 | 1.83E-02 | 1.16E-04 | 2.94E-01 | 2.94E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 7.58E-01 | 4.86E-03 | 3.80E+00 | 3.80E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 1.34E+00 | 1.82E-02 | 1.43E+01 | 1.44E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 9.83E-01 | 4.62E-03 | 2.06E+00 | 2.07E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.91E-01 | 3.95E-01 | 0.00E+00 | 2.53E-02 | 4.23E-05 | 6.31E-01 | 6.31E-01 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.70E-03 | 3.13E-03 | 2.47E-01 | 1.70E-01 | 0.00E+00 | 2.84E-03 | 2.35E-05 | 4.30E-01 | 4.30E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 2.06E-03 | 1.13E-01 | 7.77E-02 | 0.00E+00 | 2.06E-03 | 6.45E-05 | 1.96E-01 | 1.96E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 8.51E-02 | 2.70E-03 | 1.91E+00 | 1.92E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 1.51E-01 | 1.01E-02 | 9.40E+00 | 9.41E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 1.10E-01 | 2.57E-03 | 8.71E-01 | 8.73E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.40E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E-04 | 1.03E-05 | 6.62E-03 | 6.63E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-04 | 2.84E-05 | 1.03E-03 | 1.06E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.51E-03 | 1.19E-03 | 4.16E-02 | 4.28E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 4.44E-03 | 1.31E-02 | 1.75E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.44E-03 | 1.13E-03 | 1.02E-02 | 1.14E-02 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.12E-01 | 1.89E-03 | 1.72E-05 | 9.14E-01 | 9.14E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-03 | 1.37E-03 | 4.73E-05 | 1.12E-02 | 1.12E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 5.67E-02 | 1.98E-03 | 3.35E-01 | 3.37E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 1.01E-01 | 7.40E-03 | 4.16E-01 | 4.23E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 7.35E-02 | 1.88E-03 | 4.45E-01 | 4.46E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.81E-03 | 0.00E+00 | 7.91E-03 | 0.00E+00 | 4.59E-01 | 7.86E-04 | 1.33E-05 | 4.71E-01 | 4.71E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 3.61E-03 | 0.00E+00 | 4.94E-03 | 5.68E-04 | 3.66E-05 | 9.50E-03 | 9.54E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 1.40E-01 | 2.35E-02 | 1.53E-03 | 2.09E-01 | 2.10E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 1.59E-01 | 4.18E-02 | 5.72E-03 | 3.77E-01 | 3.82E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 1.87E-01 | 3.05E-02 | 1.45E-03 | 2.33E-01 | 2.34E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.27E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.53E-01 | 7.86E-04 | 1.33E-05 | 5.54E-01 | 5.54E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.94E-03 | 5.68E-04 | 3.66E-05 | 6.62E-03 | 6.65E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 2.35E-02 | 1.53E-03 | 1.97E-01 | 1.98E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 4.18E-02 | 5.72E-03 | 2.33E-01 | 2.39E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 3.05E-02 | 1.45E-03 | 2.56E-01 | 2.57E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-132**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 2E-01 | 5E-02 | 2E-01 | 5E-02 |
| | **Mercury** | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Mourning Dove - high** | **tPCB-high** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| **Blue Jay - mid** | **tPCB-med** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Chromium** | 5E-01 | 4E-01 | 5E-01 | 4E-01 |
| | **Lead** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Mercury** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Shrew - 1** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 1E-02 | 7E-03 | 1E-02 | 7E-03 |
| | **Chromium** | 2E-02 | 1E-02 | 2E-02 | 2E-02 |
| | **Lead** | 3E-03 | 1E-03 | 4E-03 | 2E-03 |
| | **Vanadium** | 2E-03 | 1E-03 | 3E-03 | 1E-03 |
| **Weasel** | **tPCB** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Mercury** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 9E-02 | 4E-02 | 9E-02 | 4E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-133**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **1.34E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.48E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **1.34E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Blue Jay - mid** | **tPCB-med** | **1.34E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.48E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **1.34E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.34E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.48E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.34E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Shrew - 1** | **tPCB** | **1.34E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.48E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **1.34E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.48E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **1.34E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.48E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **1.34E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.48E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **1.34E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.75E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.95E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.48E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.99E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-133**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E-02 | 1.88E-05 | 8.81E-02 | 8.81E-02 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.44E-02 | 5.16E-05 | 4.28E-02 | 4.28E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.79E-01 | 2.16E-03 | 9.18E-01 | 9.20E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.87E-01 | 8.08E-03 | 5.02E-01 | 5.10E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.86E-01 | 2.05E-03 | 6.04E-01 | 6.06E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E-02 | 1.88E-05 | 8.81E-02 | 8.81E-02 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 8.79E-02 | 0.00E+00 | 0.00E+00 | 2.87E-02 | 2.04E-05 | 1.70E-01 | 1.70E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 1.06E-03 | 0.00E+00 | 4.01E-02 | 0.00E+00 | 0.00E+00 | 3.75E-02 | 5.59E-05 | 8.58E-02 | 8.58E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 6.32E-01 | 2.34E-03 | 1.37E+00 | 1.37E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 0.00E+00 | 5.31E-01 | 8.75E-03 | 2.49E+00 | 2.50E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 6.40E-01 | 2.22E-03 | 8.16E-01 | 8.18E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 8.79E-02 | 0.00E+00 | 0.00E+00 | 2.87E-02 | 2.04E-05 | 1.70E-01 | 1.70E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.91E-01 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 4.58E-02 | 4.23E-05 | 6.52E-01 | 6.52E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 6.92E-03 | 8.72E-02 | 1.80E-01 | 0.00E+00 | 0.00E+00 | 5.97E-02 | 1.16E-04 | 3.35E-01 | 3.35E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 4.86E-03 | 4.05E+00 | 4.05E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 8.47E-01 | 1.82E-02 | 1.38E+01 | 1.39E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 1.02E+00 | 4.62E-03 | 2.10E+00 | 2.10E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.91E-01 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 4.58E-02 | 4.23E-05 | 6.52E-01 | 6.52E-01 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.70E-03 | 3.13E-03 | 2.47E-01 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.15E-03 | 2.35E-05 | 4.32E-01 | 4.32E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 2.06E-03 | 1.13E-01 | 7.77E-02 | 0.00E+00 | 0.00E+00 | 6.71E-03 | 6.45E-05 | 2.00E-01 | 2.00E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 0.00E+00 | 1.13E-01 | 2.70E-03 | 1.94E+00 | 1.95E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 0.00E+00 | 9.51E-02 | 1.01E-02 | 9.35E+00 | 9.36E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 2.57E-03 | 8.75E-01 | 8.78E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.40E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.93E-04 | 1.03E-05 | 6.80E-03 | 6.81E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.13E-04 | 2.84E-05 | 1.39E-03 | 1.42E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.65E-03 | 1.19E-03 | 4.38E-02 | 4.50E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.27E-03 | 4.44E-03 | 8.78E-03 | 1.32E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.75E-03 | 1.13E-03 | 1.05E-02 | 1.17E-02 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.12E-01 | 3.43E-03 | 1.72E-05 | 9.15E-01 | 9.15E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-03 | 4.47E-03 | 4.73E-05 | 1.43E-02 | 1.43E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 7.53E-02 | 1.98E-03 | 3.54E-01 | 3.56E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 6.33E-02 | 7.40E-03 | 3.79E-01 | 3.86E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 7.62E-02 | 1.88E-03 | 4.47E-01 | 4.49E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.81E-03 | 0.00E+00 | 7.91E-03 | 0.00E+00 | 0.00E+00 | 4.59E-01 | 1.42E-03 | 1.33E-05 | 4.72E-01 | 4.72E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 3.61E-03 | 0.00E+00 | 0.00E+00 | 4.94E-03 | 1.86E-03 | 3.66E-05 | 1.08E-02 | 1.08E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 3.13E-02 | 1.53E-03 | 2.16E-01 | 2.18E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 2.63E-02 | 5.72E-03 | 3.61E-01 | 3.67E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 3.17E-02 | 1.45E-03 | 2.34E-01 | 2.35E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.27E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.53E-01 | 1.42E-03 | 1.33E-05 | 5.55E-01 | 5.55E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.94E-03 | 1.86E-03 | 3.66E-05 | 7.90E-03 | 7.94E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 3.13E-02 | 1.53E-03 | 2.04E-01 | 2.06E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 2.63E-02 | 5.72E-03 | 2.18E-01 | 2.23E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 3.17E-02 | 1.45E-03 | 2.57E-01 | 2.58E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-133**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 2E-01 | 6E-02 | 2E-01 | 6E-02 |
| | **Mercury** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| **Mourning Dove - high** | **tPCB-high** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| **Blue Jay - mid** | **tPCB-med** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Chromium** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Mercury** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Chromium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Lead** | **8E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| **Shrew - 1** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| | **Chromium** | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 2E-03 | 1E-03 | 3E-03 | 1E-03 |
| | **Vanadium** | 3E-03 | 1E-03 | 3E-03 | 1E-03 |
| **Weasel** | **tPCB** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Mercury** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Lead** | 5E-02 | 2E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-134**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **7.41E-01** | **8.97E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.39E+02** | **2.69E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.22E+01** | **1.36E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **2.52E+01** | **3.90E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.94E+01** | **9.20E+00** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **5.36E-01** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.88E+01** | **7.60E+00** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **7.41E-01** | **8.97E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **7.41E-01** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **1.39E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **2.22E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **2.52E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **3.94E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **5.36E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **2.88E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **7.41E-01** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **7.41E-01** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **1.39E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **2.22E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **2.52E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **3.94E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **5.36E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **2.88E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **7.41E-01** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **1.39E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **2.22E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **2.52E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **3.94E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **5.36E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **2.88E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-134**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Measured Tissue (mg/kg dry weight) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |

**Table E3-134**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.00E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 |
| | **Mercury** | 2.39E+00 | 2.06E-01 | 6.31E-02 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 2.00E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.00E-02 |
| **Hawk - mid** | **tPCB-med** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.10E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 |
| | **Mercury** | 2.39E+00 | 2.06E-01 | 6.31E-02 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.10E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 |
| **Hawk - high** | **tPCB-high** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.10E+00 |
| **Raccoon - 1** | **tPCB** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 5.60E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 |
| | **Mercury** | 2.39E+00 | 2.06E-01 | 6.31E-02 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 5.60E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 |
| **Shrew - 2** | **tPCB** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.70E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 |
| | **Mercury** | 2.39E+00 | 2.06E-01 | 6.31E-02 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.70E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 |

**Table E3-134**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 9.37E-03 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.53E-03 | 0.00E+00 | 0.00E+00 | 8.72E-02 | 0.00E+00 | 6.92E-03 | 0.00E+00 | 1.80E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 9.37E-03 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.40E-02 | 0.00E+00 | 2.58E-04 | 1.40E-02 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 0.00E+00 | 3.64E-03 |
| | **Barium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 |
| | **Chromium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| | **Cobalt** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 |
| | **Lead** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 |
| | **Mercury** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 6.40E-03 | 0.00E+00 | 1.69E-04 | 6.40E-03 | 0.00E+00 | 2.35E-04 | 0.00E+00 | 0.00E+00 | 8.16E-04 |
| | **Vanadium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| **Shrew - 2** | **tPCB** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 9.50E-03 | 0.00E+00 | 2.74E-01 | 0.00E+00 | 2.15E-03 | 1.17E-01 | 0.00E+00 | 9.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 1.30E-03 | 0.00E+00 | 1.25E-01 | 0.00E+00 | 1.41E-03 | 5.33E-02 | 0.00E+00 | 1.05E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-134**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E-02 | 0.00E+00 | 4.23E-05 | 2.27E-01 | 4.04E-01 | 6.31E-01 | 6.31E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.74E+00 | 0.00E+00 | 3.27E-02 | 1.41E+01 | 1.88E+01 | 3.29E+01 | 3.29E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.58E-01 | 0.00E+00 | 4.86E-03 | 2.28E+00 | 1.54E+00 | 3.81E+00 | 3.82E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.29E-03 | 3.09E+00 | 1.19E+00 | 4.28E+00 | 4.29E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E+00 | 0.00E+00 | 1.82E-02 | 5.60E+00 | 8.90E+00 | 1.45E+01 | 1.45E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-02 | 0.00E+00 | 1.16E-04 | 1.12E-01 | 1.82E-01 | 2.94E-01 | 2.94E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.83E-01 | 0.00E+00 | 4.62E-03 | 1.35E+00 | 7.53E-01 | 2.10E+00 | 2.11E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E-02 | 0.00E+00 | 4.23E-05 | 2.27E-01 | 4.04E-01 | 6.31E-01 | 6.31E-01 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.75E-01 | 0.00E+00 | 3.39E-03 | 4.10E-03 | 8.93E-06 | 1.07E+00 | 5.79E-01 | 1.65E+00 | 1.65E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 6.35E-01 | 1.23E-01 | 6.90E-03 | 3.66E+00 | 2.26E-01 | 3.89E+00 | 3.90E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.01E-01 | 6.21E-02 | 1.03E-03 | 4.28E-01 | 1.56E-01 | 5.84E-01 | 5.85E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00 | 1.15E-01 | 1.78E-02 | 6.95E-04 | 1.20E+00 | 2.53E-01 | 1.46E+00 | 1.46E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.98E-03 | 0.00E+00 | 1.80E-01 | 4.20E-02 | 3.84E-03 | 5.51E-01 | 5.00E-02 | 6.01E-01 | 6.04E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-02 | 0.00E+00 | 2.45E-03 | 3.72E-03 | 2.45E-05 | 1.40E-02 | 2.58E-02 | 3.97E-02 | 3.98E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.32E-01 | 3.47E-02 | 9.75E-04 | 5.67E-01 | 1.29E-01 | 6.96E-01 | 6.97E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.75E-01 | 0.00E+00 | 3.39E-03 | 4.10E-03 | 8.93E-06 | 1.07E+00 | 5.79E-01 | 1.65E+00 | 1.65E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 3.12E-02 | 0.00E+00 | 0.00E+00 | 2.96E-02 | 4.37E-03 | 1.87E-03 | 0.00E+00 | 1.30E-05 | 5.72E-02 | 6.88E-02 | 1.26E-01 | 1.26E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 3.51E-01 | 0.00E+00 | 1.00E-02 | 4.62E+00 | 7.44E-01 | 5.37E+00 | 5.38E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 5.60E-02 | 0.00E+00 | 1.49E-03 | 2.15E-01 | 2.69E-02 | 2.42E-01 | 2.43E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 6.35E-02 | 0.00E+00 | 1.01E-03 | 1.70E-01 | 8.34E-02 | 2.54E-01 | 2.55E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 9.94E-02 | 0.00E+00 | 5.59E-03 | 7.30E-01 | 1.55E-02 | 7.45E-01 | 7.51E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 6.32E-04 | 0.00E+00 | 0.00E+00 | 1.14E-03 | 4.51E-04 | 1.35E-03 | 0.00E+00 | 3.57E-05 | 1.53E-02 | 3.03E-03 | 1.83E-02 | 1.83E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 7.26E-02 | 0.00E+00 | 1.42E-03 | 1.34E-01 | 1.17E-02 | 1.46E-01 | 1.47E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.05E-02 | 6.94E-03 | 2.84E-03 | 3.44E-03 | 2.35E-05 | 5.03E-01 | 8.09E-02 | 5.84E-01 | 5.84E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-02 | 5.62E-02 | 5.33E-01 | 1.03E-01 | 1.82E-02 | 2.36E+01 | 1.72E-01 | 2.37E+01 | 2.38E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.31E-02 | 8.51E-02 | 5.22E-02 | 2.70E-03 | 1.79E+00 | 8.68E-02 | 1.87E+00 | 1.87E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 1.99E-03 | 9.66E-02 | 1.50E-02 | 1.83E-03 | 1.04E+00 | 4.57E-02 | 1.09E+00 | 1.09E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-04 | 5.27E-03 | 1.51E-01 | 3.53E-02 | 1.01E-02 | 8.84E+00 | 4.15E-02 | 8.89E+00 | 8.90E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-03 | 7.16E-04 | 2.06E-03 | 3.13E-03 | 6.45E-05 | 1.84E-01 | 6.55E-03 | 1.91E-01 | 1.91E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.07E-03 | 1.10E-01 | 2.91E-02 | 2.57E-03 | 8.61E-01 | 4.27E-02 | 9.04E-01 | 9.07E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-134**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5E-01 | 2E-01 | 9E-01 | 3E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Barium** | 7E-01 | 3E-01 | 9E-01 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 9E-01 | 8E-01 | 6E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 4E-01 | 4E-01 | 2E-01 | 2E-01 | 6E-01 | 5E-01 | 6E-01 | 5E-01 |
| | **Lead** | **3E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Mercury** | **5E+00** | **2E+00** | **8E+00** | **3E+00** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Vanadium** | **4E+00** | **2E+00** | **2E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **5E+00** | **2E+00** | **9E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Hawk - mid** | **tPCB-med** | **2E+00** | 8E-01 | **1E+00** | 4E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | 2E-01 | 9E-02 | 1E-02 | 5E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 6E-02 | 6E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 3E-02 | 3E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 2E-01 | 3E-02 | 2E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | 6E-01 | 2E-01 | **1E+00** | 4E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | 4E-01 | 2E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **2E+01** | **8E+00** | **1E+01** | **4E+00** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Raccoon - 1** | **tPCB** | 2E-01 | 8E-02 | 3E-01 | 1E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 9E-02 | 8E-02 | 1E-02 | 1E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 2E-02 | 2E-02 | 1E-02 | 8E-03 | 3E-02 | 3E-02 | 3E-02 | 3E-02 |
| | **Lead** | 2E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 2E-01 | 1E-01 | 4E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 3E-02 | 2E-02 | 3E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+00** | 7E-01 | 4E-01 | 1E-01 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 5E-01 | 2E-01 | 3E-03 | 1E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 4E-02 | 3E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 6E-03 | 5E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 9E-03 | 5E-03 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **2E+00** | **1E+00** | 9E-02 | 4E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 1E-02 | 5E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-135**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.34E+00** | **8.97E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.10E+02** | **2.69E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.95E+01** | **1.36E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.08E+01** | **3.90E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.48E+01** | **9.20E+00** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.75E+00** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.99E+01** | **7.60E+00** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.34E+00** | **8.97E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.34E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.10E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.95E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.08E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.48E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.75E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.99E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.34E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.34E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **1.10E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **2.95E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **1.08E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **2.48E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **1.75E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **2.99E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Shrew - 2** | **tPCB** | **1.34E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.10E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.95E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.08E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.48E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.75E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.99E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-135**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |

**Table E3-135**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-135**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 9.37E-03 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.53E-03 | 0.00E+00 | 0.00E+00 | 8.72E-02 | 0.00E+00 | 6.92E-03 | 0.00E+00 | 1.80E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 9.37E-03 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.40E-02 | 0.00E+00 | 2.58E-04 | 1.40E-02 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 0.00E+00 | 3.64E-03 | 3.12E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 7.06E-04 | 0.00E+00 | 6.40E-03 | 0.00E+00 | 1.69E-04 | 6.40E-03 | 0.00E+00 | 2.35E-04 | 0.00E+00 | 0.00E+00 | 8.16E-04 | 6.32E-04 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 9.50E-03 | 0.00E+00 | 2.74E-01 | 0.00E+00 | 2.15E-03 | 1.17E-01 | 0.00E+00 | 9.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-03 | 0.00E+00 | 1.25E-01 | 0.00E+00 | 1.41E-03 | 5.33E-02 | 0.00E+00 | 1.05E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-135**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 4.58E-02 | 0.00E+00 | 4.23E-05 | 2.47E-01 | 4.04E-01 | 6.52E-01 | 6.52E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 3.76E+00 | 0.00E+00 | 3.27E-02 | 1.31E+01 | 1.88E+01 | 3.19E+01 | 3.20E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 4.86E-03 | 2.53E+00 | 1.54E+00 | 4.06E+00 | 4.07E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 3.67E-01 | 0.00E+00 | 3.29E-03 | 2.60E+00 | 1.19E+00 | 3.79E+00 | 3.79E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 8.47E-01 | 0.00E+00 | 1.82E-02 | 5.10E+00 | 8.90E+00 | 1.40E+01 | 1.40E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 5.97E-02 | 0.00E+00 | 1.16E-04 | 1.54E-01 | 1.82E-01 | 3.36E-01 | 3.36E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 4.62E-03 | 1.39E+00 | 7.53E-01 | 2.14E+00 | 2.14E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 4.58E-02 | 0.00E+00 | 4.23E-05 | 2.47E-01 | 4.04E-01 | 6.52E-01 | 6.52E-01 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 5.75E-01 | 0.00E+00 | 6.13E-03 | 4.10E-03 | 8.93E-06 | 1.08E+00 | 5.79E-01 | 1.66E+00 | 1.66E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 1.03E-01 | 0.00E+00 | 5.03E-01 | 1.23E-01 | 6.90E-03 | 3.53E+00 | 2.26E-01 | 3.76E+00 | 3.77E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 9.39E-02 | 0.00E+00 | 1.35E-01 | 6.21E-02 | 1.03E-03 | 4.62E-01 | 1.56E-01 | 6.18E-01 | 6.19E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 2.35E-01 | 0.00E+00 | 4.92E-02 | 1.78E-02 | 6.95E-04 | 1.14E+00 | 2.53E-01 | 1.39E+00 | 1.39E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 7.98E-03 | 0.00E+00 | 1.13E-01 | 4.20E-02 | 3.84E-03 | 4.84E-01 | 5.00E-02 | 5.34E-01 | 5.38E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 2.21E-02 | 0.00E+00 | 8.00E-03 | 3.72E-03 | 2.45E-05 | 1.95E-02 | 2.58E-02 | 4.53E-02 | 4.53E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 9.39E-02 | 0.00E+00 | 1.36E-01 | 3.47E-02 | 9.75E-04 | 5.72E-01 | 1.29E-01 | 7.01E-01 | 7.02E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 5.75E-01 | 0.00E+00 | 6.13E-03 | 4.10E-03 | 8.93E-06 | 1.08E+00 | 5.79E-01 | 1.66E+00 | 1.66E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 2.96E-02 | 4.37E-03 | 3.38E-03 | 0.00E+00 | 1.30E-05 | 5.87E-02 | 6.88E-02 | 1.27E-01 | 1.27E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 5.32E-03 | 3.54E-02 | 2.78E-01 | 0.00E+00 | 1.00E-02 | 4.55E+00 | 7.44E-01 | 5.30E+00 | 5.31E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 4.83E-03 | 1.45E-02 | 7.44E-02 | 0.00E+00 | 1.49E-03 | 2.33E-01 | 2.69E-02 | 2.60E-01 | 2.62E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 1.21E-02 | 1.25E-03 | 2.71E-02 | 0.00E+00 | 1.01E-03 | 1.34E-01 | 8.34E-02 | 2.17E-01 | 2.18E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 4.11E-04 | 3.32E-03 | 6.26E-02 | 0.00E+00 | 5.59E-03 | 6.93E-01 | 1.55E-02 | 7.08E-01 | 7.14E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 1.14E-03 | 4.51E-04 | 4.41E-03 | 0.00E+00 | 3.57E-05 | 1.83E-02 | 3.03E-03 | 2.14E-02 | 2.14E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 4.83E-03 | 1.30E-03 | 7.53E-02 | 0.00E+00 | 1.42E-03 | 1.37E-01 | 1.17E-02 | 1.48E-01 | 1.50E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 7.05E-02 | 6.94E-03 | 5.15E-03 | 3.44E-03 | 2.35E-05 | 5.06E-01 | 8.09E-02 | 5.87E-01 | 5.87E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 1.27E-02 | 5.62E-02 | 4.22E-01 | 1.03E-01 | 1.82E-02 | 2.35E+01 | 1.72E-01 | 2.36E+01 | 2.37E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 1.15E-02 | 2.31E-02 | 1.13E-01 | 5.22E-02 | 2.70E-03 | 1.81E+00 | 8.68E-02 | 1.90E+00 | 1.90E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.88E-02 | 1.99E-03 | 4.13E-02 | 1.50E-02 | 1.83E-03 | 9.87E-01 | 4.57E-02 | 1.03E+00 | 1.03E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 9.79E-04 | 5.27E-03 | 9.51E-02 | 3.53E-02 | 1.01E-02 | 8.79E+00 | 4.15E-02 | 8.83E+00 | 8.84E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 2.71E-03 | 7.16E-04 | 6.71E-03 | 3.13E-03 | 6.45E-05 | 1.89E-01 | 6.55E-03 | 1.95E-01 | 1.95E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 1.15E-02 | 2.07E-03 | 1.15E-01 | 2.91E-02 | 2.57E-03 | 8.65E-01 | 4.27E-02 | 9.08E-01 | 9.11E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-135**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5E-01 | 2E-01 | 9E-01 | 3E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Barium** | 6E-01 | 3E-01 | 9E-01 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 9E-01 | 9E-01 | 6E-01 | 5E-01 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Cobalt** | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **3E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Mercury** | **7E+00** | **2E+00** | **8E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Vanadium** | **4E+00** | **2E+00** | **2E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **6E+00** | **2E+00** | **9E+00** | **3E+00** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| **Hawk - mid** | **tPCB-med** | **2E+00** | 8E-01 | **1E+00** | 4E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | 2E-01 | 8E-02 | 1E-02 | 5E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 6E-02 | 6E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 3E-02 | 3E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 1E-01 | 3E-02 | 2E-02 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | 9E-01 | 3E-01 | **1E+00** | 4E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | 4E-01 | 2E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **2E+01** | **8E+00** | **1E+01** | **4E+00** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Raccoon - 1** | **tPCB** | 3E-01 | 9E-02 | 3E-01 | 1E-01 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 1E-01 | 8E-02 | 1E-02 | 1E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 1E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 2E-01 | 1E-01 | 4E-02 | 2E-02 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 3E-02 | 2E-02 | 3E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+00** | 7E-01 | 4E-01 | 1E-01 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 5E-01 | 2E-01 | 3E-03 | 1E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 8E-01 | 6E-01 | 4E-02 | 3E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 6E-03 | 5E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 9E-03 | 5E-03 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **3E+00** | **1E+00** | 9E-02 | 4E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 1E-02 | 5E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-136**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C7, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.07E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.78E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.50E+00** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.21E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.54E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.07E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **2.78E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **8.50E+00** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **3.21E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **1.54E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Barium** | **1.07E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Chromium** | **2.78E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Cobalt** | **8.50E+00** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Lead** | **3.21E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Vanadium** | **1.54E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 2** | **tPCB-mink** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Barium** | **1.07E+02** | **2.69E+01** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Chromium** | **2.78E+01** | **1.36E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Cobalt** | **8.50E+00** | **3.90E+00** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Lead** | **3.21E+01** | **9.20E+00** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Vanadium** | **1.54E+01** | **7.60E+00** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Raccoon - 1** | **tPCB** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **1.07E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **2.78E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **8.50E+00** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **3.21E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **1.54E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Raccoon - 2** | **tPCB** | **2.62E+00** | **8.97E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Barium** | **1.07E+02** | **2.69E+01** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Chromium** | **2.78E+01** | **1.36E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Cobalt** | **8.50E+00** | **3.90E+00** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Lead** | **3.21E+01** | **9.20E+00** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Vanadium** | **1.54E+01** | **7.60E+00** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |

**Table E3-136**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C7, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| **GBH - mid** | **tPCB-med** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **GBH - high** | **tPCB-high** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |

**Table E3-136**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C7, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 9.69E-02 | 4.65E-01 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E+00 | 2.04E+01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 1.73E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.96E-01 | 5.06E-01 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 1.03E+01 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.24E-02 | 2.12E-01 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.28E-01 | 8.38E-01 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 9.69E-02 | 4.65E-01 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.11E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.11E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.46E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 9.62E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.40E-02 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 6.40E-03 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.95E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.19E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 8.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-136**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C7, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.20E-02 | 1.44E-02 | 2.66E-05 | 5.07E-01 | 1.11E-01 | 6.18E-01 | 6.18E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.71E+00 | 4.31E-01 | 2.06E-02 | 2.21E+01 | 5.77E+00 | 2.79E+01 | 2.79E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.45E-01 | 2.18E-01 | 3.06E-03 | 2.18E+00 | 5.62E-01 | 2.74E+00 | 2.74E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 6.25E-02 | 2.07E-03 | 6.42E-01 | 4.58E-01 | 1.10E+00 | 1.10E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.14E-01 | 1.47E-01 | 1.14E-02 | 1.08E+01 | 6.82E-01 | 1.15E+01 | 1.15E+01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.83E-02 | 1.31E-02 | 7.31E-05 | 2.61E-01 | 5.54E-02 | 3.16E-01 | 3.16E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 1.22E-01 | 2.91E-03 | 1.08E+00 | 3.49E-01 | 1.43E+00 | 1.44E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.20E-02 | 1.44E-02 | 2.66E-05 | 5.07E-01 | 1.11E-01 | 6.18E-01 | 6.18E-01 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-02 | 0.00E+00 | 0.00E+00 | 1.84E-03 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.83E-02 | 0.00E+00 | 3.16E-03 | 7.05E-06 | 2.70E-02 | 8.79E+00 | 8.81E+00 | 8.81E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 | 0.00E+00 | 0.00E+00 | 3.51E-01 | 2.45E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 9.47E-02 | 5.45E-03 | 7.65E-02 | 3.20E+00 | 3.28E+00 | 3.28E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-03 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 7.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 4.79E-02 | 8.10E-04 | 8.25E-03 | 9.32E-01 | 9.40E-01 | 9.41E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 7.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 1.37E-02 | 5.49E-04 | 2.75E-02 | 1.35E-01 | 1.63E-01 | 1.63E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.35E-03 | 0.00E+00 | 0.00E+00 | 5.78E-03 | 9.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 0.00E+00 | 3.24E-02 | 3.03E-03 | 9.35E-03 | 1.58E-01 | 1.67E-01 | 1.70E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.91E-04 | 0.00E+00 | 0.00E+00 | 4.12E-04 | 1.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.94E-03 | 0.00E+00 | 2.87E-03 | 1.94E-05 | 2.91E-04 | 1.84E-01 | 1.85E-01 | 1.85E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 1.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 2.68E-02 | 7.70E-04 | 1.10E-02 | 2.37E-01 | 2.48E-01 | 2.49E-01 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-02 | 0.00E+00 | 0.00E+00 | 1.84E-03 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.83E-02 | 0.00E+00 | 3.16E-03 | 7.05E-06 | 2.70E-02 | 8.79E+00 | 8.81E+00 | 8.81E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-01 | 0.00E+00 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 0.00E+00 | 3.48E-01 | 0.00E+00 | 6.98E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.34E-01 | 4.23E-01 | 7.57E-01 | 7.57E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-01 | 0.00E+00 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 0.00E+00 | 3.48E-01 | 0.00E+00 | 6.98E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.34E-01 | 4.23E-01 | 7.57E-01 | 7.57E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.45E-01 | 0.00E+00 | 0.00E+00 | 8.87E-01 | 0.00E+00 | 0.00E+00 | 3.42E-01 | 0.00E+00 | 5.66E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 9.45E-01 | 1.80E+00 | 2.74E+00 | 2.75E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 2.32E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.02E-01 | 3.54E-01 | 4.56E-01 | 4.58E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 2.00E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 3.10E-01 | 6.50E-01 | 6.51E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 0.00E+00 | 0.00E+00 | 2.15E-02 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.16E-01 | 8.91E-02 | 2.05E-01 | 2.11E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 0.00E+00 | 0.00E+00 | 1.04E-03 | 0.00E+00 | 0.00E+00 | 6.71E-03 | 0.00E+00 | 7.20E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 3.59E-03 | 1.50E-02 | 1.85E-02 | 1.86E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 0.00E+00 | 2.08E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 3.93E-02 | 1.75E-01 | 1.77E-01 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.56E-02 | 0.00E+00 | 0.00E+00 | 2.07E-03 | 0.00E+00 | 0.00E+00 | 1.43E+00 | 0.00E+00 | 8.06E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.56E-02 | 1.44E+00 | 1.48E+00 | 1.48E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.56E-02 | 0.00E+00 | 0.00E+00 | 2.07E-03 | 0.00E+00 | 0.00E+00 | 1.43E+00 | 0.00E+00 | 8.06E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.56E-02 | 1.44E+00 | 1.48E+00 | 1.48E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 3.94E-01 | 0.00E+00 | 0.00E+00 | 1.40E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.29E-01 | 1.90E+00 | 2.02E+00 | 2.04E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 4.73E-01 | 0.00E+00 | 2.68E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.39E-02 | 5.04E-01 | 5.18E-01 | 5.19E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.80E-01 | 9.27E-01 | 9.28E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 6.50E-03 | 0.00E+00 | 0.00E+00 | 8.80E-02 | 0.00E+00 | 6.11E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.58E-02 | 1.04E-01 | 1.20E-01 | 1.27E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.90E-04 | 0.00E+00 | 0.00E+00 | 4.63E-04 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 8.31E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 4.90E-04 | 2.88E-02 | 2.93E-02 | 2.93E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 5.05E-02 | 0.00E+00 | 2.40E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 5.66E-02 | 7.52E-02 | 7.69E-02 |
| **Raccoon - 1** | **tPCB** | 2.58E-04 | 1.40E-02 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 0.00E+00 | 3.64E-03 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 2.96E-02 | 4.37E-03 | 6.60E-03 | 0.00E+00 | 1.30E-05 | 6.19E-02 | 6.88E-02 | 1.31E-01 | 1.31E-01 |
| | **Barium** | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 2.70E-01 | 0.00E+00 | 1.00E-02 | 4.54E+00 | 7.44E-01 | 5.29E+00 | 5.30E+00 |
| | **Chromium** | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 7.01E-02 | 0.00E+00 | 1.49E-03 | 2.29E-01 | 2.69E-02 | 2.56E-01 | 2.57E-01 |
| | **Cobalt** | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.14E-02 | 0.00E+00 | 1.01E-03 | 1.28E-01 | 8.34E-02 | 2.12E-01 | 2.13E-01 |
| | **Lead** | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 8.09E-02 | 0.00E+00 | 5.59E-03 | 7.11E-01 | 1.55E-02 | 7.27E-01 | 7.32E-01 |
| | **Mercury** | 1.69E-04 | 6.40E-03 | 0.00E+00 | 2.35E-04 | 0.00E+00 | 0.00E+00 | 8.16E-04 | 6.32E-04 | 0.00E+00 | 0.00E+00 | 1.14E-03 | 4.51E-04 | 7.61E-03 | 0.00E+00 | 3.57E-05 | 2.15E-02 | 3.03E-03 | 2.45E-02 | 2.46E-02 |
| | **Vanadium** | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 3.88E-02 | 0.00E+00 | 1.42E-03 | 1.00E-01 | 1.17E-02 | 1.12E-01 | 1.13E-01 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.83E-02 | 8.76E-04 | 4.17E-02 | 3.64E-03 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E-02 | 0.00E+00 | 2.26E-03 | 1.30E-05 | 7.83E-02 | 3.94E-01 | 4.72E-01 | 4.72E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-01 | 4.83E-02 | 1.19E-01 | 6.95E-01 | 9.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 6.78E-02 | 1.00E-02 | 2.21E-01 | 1.48E+00 | 1.70E+00 | 1.71E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-02 | 3.11E-03 | 4.68E-02 | 4.84E-03 | 2.81E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-02 | 0.00E+00 | 3.43E-02 | 1.49E-03 | 2.39E-02 | 1.90E-01 | 2.13E-01 | 2.15E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-02 | 3.58E-03 | 1.35E-02 | 6.97E-02 | 2.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-03 | 0.00E+00 | 9.83E-03 | 1.01E-03 | 7.96E-02 | 2.63E-01 | 3.42E-01 | 3.44E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-02 | 4.83E-03 | 1.56E-02 | 1.15E-02 | 3.38E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 2.32E-02 | 5.59E-03 | 2.71E-02 | 1.04E-01 | 1.31E-01 | 1.37E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.41E-04 | 3.83E-04 | 3.01E-03 | 8.16E-04 | 6.60E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 0.00E+00 | 2.06E-03 | 3.57E-05 | 8.41E-04 | 1.50E-02 | 1.58E-02 | 1.59E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 | 2.06E-03 | 6.56E-03 | 4.84E-03 | 7.33E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-03 | 0.00E+00 | 1.92E-02 | 1.42E-03 | 3.19E-02 | 5.40E-02 | 8.59E-02 | 8.73E-02 |

**Table E3-136**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C7, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | 2E-01 | 8E-02 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 2.08E+01 | 4.17E+01 | **1E+00** | 5E-01 | 3E-01 | 1E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 8E-01 | 8E-01 | 2E-01 | 2E-01 | 1E+00 | 1E+00 | 1E+00 | 1E+00 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 8E-02 | 8E-02 | 6E-02 | 6E-02 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **7E+00** | **3E+00** | 4E-01 | 2E-01 | **7E+00** | **4E+00** | **7E+00** | **4E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **1E+01** | **4E+00** | **2E+00** | 8E-01 | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | 1E+00 | 5E-01 | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+01** | **4E+00** | **3E+00** | 9E-01 | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **GBH - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 6E-02 | 2E-02 | **2E+01** | **6E+00** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 4E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 4E-01 | 3E-01 | 4E-01 | 3E-01 | 4E-01 | 3E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 1E-01 | 5E-02 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 1E-02 | 4E-03 | **8E+00** | **3E+00** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 7E-01 | 3E-01 | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| **GBH - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | 6E-01 | 2E-01 | **2E+02** | **7E+01** | **2E+02** | **7E+01** | **2E+02** | **7E+01** |
| **Mink - 1** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | **7E+00** | **3E+00** | **8E+00** | **4E+00** | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | **7E+00** | **--** | **8E+00** | **--** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-02 | 8E-03 | 3E-02 | 1E-02 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 4E-02 | 4E-02 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 | 6E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 5E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 5E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Mink - 2** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | 9E-01 | 5E-01 | **3E+01** | **1E+01** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | 9E-01 | **--** | **3E+01** | **--** | **3E+01** | **--** | **3E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 6E-03 | 5E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 2E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 7E-03 | 3E-03 | 4E-01 | 2E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-01 | 9E-02 | 3E-01 | 1E-01 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-01 | 8E-02 | 1E-02 | 1E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 3E-01 | 1E-01 | 4E-02 | 2E-02 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | **2E+00** | 6E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 4E-03 | 2E-03 | 3E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-02 | 8E-03 | 8E-02 | 7E-02 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 2E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 1E-02 | 6E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 1E-02 | 7E-03 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-137**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C7, Subarea Soil - North**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **7.41E-01** | **8.97E-01** | 1.00E+01 | 9.97E-03 | NA | 9.97E-03 | 3.99E-01 | -- | 3.99E-01 | 2.80E+01 | 6.60E+01 | 1E-02 | 6E-03 | -- | -- | 1E-02 | 6E-03 |
| | **Mercury** | **5.36E-01** | **8.15E-01** | 8.00E-01 | 1.72E-03 | NA | 1.72E-03 | 5.49E-03 | -- | 5.51E-03 | 4.40E-01 | 8.00E-01 | 1E-02 | 7E-03 | -- | -- | 1E-02 | 7E-03 |
| **Mourning Dove - high** | **tPCB-high** | **7.41E-01** | **8.97E-01** | 1.00E+01 | 9.97E-03 | NA | 9.97E-03 | 3.99E-01 | -- | 3.99E-01 | 2.10E+00 | 4.50E+00 | 2E-01 | 9E-02 | -- | -- | 2E-01 | 9E-02 |
| **Blue Jay - mid** | **tPCB-med** | **7.41E-01** | **8.97E-01** | 1.00E+01 | 1.09E-02 | NA | 1.09E-02 | 4.36E-01 | -- | 4.36E-01 | 2.80E+01 | 6.60E+01 | 2E-02 | 7E-03 | -- | -- | 2E-02 | 7E-03 |
| | **Mercury** | **5.36E-01** | **8.15E-01** | 8.00E-01 | 3.36E-03 | NA | 3.36E-03 | 1.08E-02 | -- | 1.08E-02 | 4.40E-01 | 8.00E-01 | 2E-02 | 1E-02 | -- | -- | 2E-02 | 1E-02 |
| **Blue Jay - high** | **tPCB-high** | **7.41E-01** | **8.97E-01** | 1.00E+01 | 1.09E-02 | NA | 1.09E-02 | 4.36E-01 | -- | 4.36E-01 | 2.10E+00 | 4.50E+00 | 2E-01 | 1E-01 | -- | -- | 2E-01 | 1E-01 |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **7.41E-01** | **8.97E-01** | 1.00E+01 | 7.57E-03 | NA | 7.57E-03 | 3.03E-01 | -- | 3.03E-01 | 2.80E+01 | 6.60E+01 | 1E-02 | 5E-03 | -- | -- | 1E-02 | 5E-03 |
| | **Mercury** | **5.36E-01** | **8.15E-01** | 8.00E-01 | 3.57E-03 | NA | 3.57E-03 | 1.14E-02 | -- | 1.14E-02 | 4.40E-01 | 8.00E-01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **7.41E-01** | **8.97E-01** | 1.00E+01 | 7.57E-03 | NA | 7.57E-03 | 3.03E-01 | -- | 3.03E-01 | 2.10E+00 | 4.50E+00 | 1E-01 | 7E-02 | -- | -- | 1E-01 | 7E-02 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **7.41E-01** | **8.97E-01** | 1.00E+01 | 2.93E-03 | 5.64E-03 | 8.57E-03 | 1.17E-01 | 2.26E-01 | 3.43E-01 | 2.80E+01 | 6.60E+01 | 4E-03 | 2E-03 | 8E-03 | 3E-03 | 1E-02 | 5E-03 |
| | **Mercury** | **5.36E-01** | **8.15E-01** | 8.00E-01 | 1.46E-03 | 2.68E-03 | 4.13E-03 | 4.66E-03 | 8.56E-03 | 1.32E-02 | 4.40E-01 | 8.00E-01 | 1E-02 | 6E-03 | 2E-02 | 1E-02 | 3E-02 | 2E-02 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **7.41E-01** | **8.97E-01** | 1.00E+01 | 2.93E-03 | 5.64E-03 | 8.57E-03 | 1.17E-01 | 2.26E-01 | 3.43E-01 | 2.10E+00 | 4.50E+00 | 6E-02 | 3E-02 | 1E-01 | 5E-02 | 2E-01 | 8E-02 |
| **Hawk - mid** | **tPCB-med** | **7.41E-01** | **8.97E-01** | 1.00E+01 | 1.39E-01 | 2.57E-01 | 3.96E-01 | 5.55E+00 | 1.03E+01 | 1.58E+01 | 2.80E+01 | 6.60E+01 | 2E-01 | 8E-02 | 4E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Mercury** | **5.36E-01** | **8.15E-01** | 8.00E-01 | 8.39E-03 | 1.64E-02 | 2.48E-02 | 2.68E-02 | 5.25E-02 | 7.94E-02 | 4.40E-01 | 8.00E-01 | 6E-02 | 3E-02 | 1E-01 | 7E-02 | 2E-01 | 1E-01 |
| **Hawk - high** | **tPCB-high** | **7.41E-01** | **8.97E-01** | 1.00E+01 | 1.39E-01 | 2.57E-01 | 3.96E-01 | 5.55E+00 | 1.03E+01 | 1.58E+01 | 2.10E+00 | 4.50E+00 | **3E+00** | **1E+00** | **5E+00** | **2E+00** | **8E+00** | **4E+00** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-138**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C7, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **1.34E+00** | **8.97E-01** | 1.00E+01 | 1.64E-02 | NA | 1.64E-02 | 6.57E-01 | -- | 6.57E-01 | 2.80E+01 | 6.60E+01 | 2E-02 | 1E-02 | -- | -- | 2E-02 | 1E-02 |
| | **Mercury** | **1.75E+00** | **8.15E-01** | 8.00E-01 | 5.60E-03 | NA | 5.61E-03 | 1.79E-02 | -- | 1.80E-02 | 4.40E-01 | 8.00E-01 | 4E-02 | 2E-02 | -- | -- | 4E-02 | 2E-02 |
| **Mourning Dove - high** | **tPCB-high** | **1.34E+00** | **8.97E-01** | 1.00E+01 | 1.64E-02 | NA | 1.64E-02 | 6.57E-01 | -- | 6.57E-01 | 2.10E+00 | 4.50E+00 | 3E-01 | 1E-01 | -- | -- | 3E-01 | 1E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.34E+00** | **8.97E-01** | 1.00E+01 | 1.94E-02 | NA | 1.94E-02 | 7.75E-01 | -- | 7.75E-01 | 2.80E+01 | 6.60E+01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| | **Mercury** | **1.75E+00** | **8.15E-01** | 8.00E-01 | 8.68E-03 | NA | 8.69E-03 | 2.78E-02 | -- | 2.78E-02 | 4.40E-01 | 8.00E-01 | 6E-02 | 3E-02 | -- | -- | 6E-02 | 3E-02 |
| **Blue Jay - high** | **tPCB-high** | **1.34E+00** | **8.97E-01** | 1.00E+01 | 1.94E-02 | NA | 1.94E-02 | 7.75E-01 | -- | 7.75E-01 | 2.10E+00 | 4.50E+00 | 4E-01 | 2E-01 | -- | -- | 4E-01 | 2E-01 |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **1.34E+00** | **8.97E-01** | 1.00E+01 | 1.47E-02 | NA | 1.47E-02 | 5.87E-01 | -- | 5.87E-01 | 2.80E+01 | 6.60E+01 | 2E-02 | 9E-03 | -- | -- | 2E-02 | 9E-03 |
| | **Mercury** | **1.75E+00** | **8.15E-01** | 8.00E-01 | 8.14E-03 | NA | 8.14E-03 | 2.61E-02 | -- | 2.61E-02 | 4.40E-01 | 8.00E-01 | 6E-02 | 3E-02 | -- | -- | 6E-02 | 3E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.34E+00** | **8.97E-01** | 1.00E+01 | 1.47E-02 | NA | 1.47E-02 | 5.87E-01 | -- | 5.87E-01 | 2.10E+00 | 4.50E+00 | 3E-01 | 1E-01 | -- | -- | 3E-01 | 1E-01 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.34E+00** | **8.97E-01** | 1.00E+01 | 5.63E-03 | 5.64E-03 | 1.13E-02 | 2.25E-01 | 2.26E-01 | 4.51E-01 | 2.80E+01 | 6.60E+01 | 8E-03 | 3E-03 | 8E-03 | 3E-03 | 2E-02 | 7E-03 |
| | **Mercury** | **1.75E+00** | **8.15E-01** | 8.00E-01 | 3.62E-03 | 2.68E-03 | 6.29E-03 | 1.16E-02 | 8.56E-03 | 2.01E-02 | 4.40E-01 | 8.00E-01 | 3E-02 | 1E-02 | 2E-02 | 1E-02 | 5E-02 | 3E-02 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **1.34E+00** | **8.97E-01** | 1.00E+01 | 5.63E-03 | 5.64E-03 | 1.13E-02 | 2.25E-01 | 2.26E-01 | 4.51E-01 | 2.10E+00 | 4.50E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 | 2E-01 | 1E-01 |
| **Hawk - mid** | **tPCB-med** | **1.34E+00** | **8.97E-01** | 1.00E+01 | 1.93E-01 | 2.57E-01 | 4.50E-01 | 7.73E+00 | 1.03E+01 | 1.80E+01 | 2.80E+01 | 6.60E+01 | 3E-01 | 1E-01 | 4E-01 | 2E-01 | 6E-01 | 3E-01 |
| | **Mercury** | **1.75E+00** | **8.15E-01** | 8.00E-01 | 2.74E-02 | 1.64E-02 | 4.38E-02 | 8.77E-02 | 5.25E-02 | 1.40E-01 | 4.40E-01 | 8.00E-01 | 2E-01 | 1E-01 | 1E-01 | 7E-02 | 3E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | **1.34E+00** | **8.97E-01** | 1.00E+01 | 1.93E-01 | 2.57E-01 | 4.50E-01 | 7.73E+00 | 1.03E+01 | 1.80E+01 | 2.10E+00 | 4.50E+00 | **4E+00** | **2E+00** | **5E+00** | **2E+00** | **9E+00** | **4E+00** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-139**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C7, Aquatic and Subarea Soil - Riparian**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Tree Swallow - mid** | **tPCB-med** | **2.62E+00** | **8.97E-01** | 1.00E+01 | NA | 2.55E-03 | 2.55E-03 | -- | 1.02E-01 | 1.02E-01 | 2.80E+01 | 6.60E+01 | -- | -- | 4E-03 | 2E-03 | 4E-03 | 2E-03 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | 8.00E-01 | NA | 5.46E-04 | 5.48E-04 | -- | 1.75E-03 | 1.75E-03 | 4.40E-01 | 8.00E-01 | -- | -- | 4E-03 | 2E-03 | 4E-03 | 2E-03 |
| **Tree Swallow - high** | **tPCB-high** | **2.62E+00** | **8.97E-01** | 1.00E+01 | NA | 2.55E-03 | 2.55E-03 | -- | 1.02E-01 | 1.02E-01 | 2.10E+00 | 4.50E+00 | -- | -- | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.62E+00** | **8.97E-01** | 1.00E+01 | 4.68E-02 | 2.60E-03 | 4.94E-02 | 1.87E+00 | 1.04E-01 | 1.98E+00 | 2.80E+01 | 6.60E+01 | 7E-02 | 3E-02 | 4E-03 | 2E-03 | 7E-02 | 3E-02 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | 8.00E-01 | 1.98E-02 | 1.70E-03 | 2.15E-02 | 6.32E-02 | 5.43E-03 | 6.87E-02 | 4.40E-01 | 8.00E-01 | 1E-01 | 8E-02 | 1E-02 | 7E-03 | 2E-01 | 9E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.62E+00** | **8.97E-01** | 1.00E+01 | 4.68E-02 | 2.60E-03 | 4.94E-02 | 1.87E+00 | 1.04E-01 | 1.98E+00 | 2.10E+00 | 4.50E+00 | 9E-01 | 4E-01 | 5E-02 | 2E-02 | 9E-01 | 4E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **2.62E+00** | **8.97E-01** | 1.00E+01 | NA | 2.01E-01 | 2.01E-01 | -- | 8.06E+00 | 8.06E+00 | 2.80E+01 | 6.60E+01 | -- | -- | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | 8.00E-01 | NA | 5.38E-03 | 5.38E-03 | -- | 1.72E-02 | 1.72E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **2.62E+00** | **8.97E-01** | 1.00E+01 | NA | 2.01E-01 | 2.01E-01 | -- | 8.06E+00 | 8.06E+00 | 2.10E+00 | 4.50E+00 | -- | -- | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **2.62E+00** | **8.97E-01** | 1.00E+01 | NA | 4.04E-01 | 4.04E-01 | -- | 1.62E+01 | 1.62E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | 8.00E-01 | NA | 9.09E-03 | 9.10E-03 | -- | 2.91E-02 | 2.91E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 7E-02 | 4E-02 | 7E-02 | 4E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **2.62E+00** | **8.97E-01** | 1.00E+01 | NA | 4.04E-01 | 4.04E-01 | -- | 1.62E+01 | 1.62E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **2.62E+00** | **8.97E-01** | 1.00E+01 | NA | 3.12E-01 | 3.12E-01 | -- | 1.25E+01 | 1.25E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | **3.02E+00** | **8.15E-01** | 8.00E-01 | NA | 8.40E-03 | 8.41E-03 | -- | 2.69E-02 | 2.69E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **2.62E+00** | **8.97E-01** | 1.00E+01 | NA | 3.12E-01 | 3.12E-01 | -- | 1.25E+01 | 1.25E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **GBH - mid** | **tPCB-med** | **2.62E+00** | **8.97E-01** | 1.00E+01 | 1.42E-02 | 7.70E+00 | 7.71E+00 | 5.67E-01 | 3.08E+02 | 3.08E+02 | 2.80E+01 | 6.60E+01 | 2E-02 | 9E-03 | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Mercury** | **3.02E+00** | **8.15E-01** | 8.00E-01 | 1.69E-03 | 1.88E-01 | 1.89E-01 | 5.41E-03 | 6.01E-01 | 6.06E-01 | 4.40E-01 | 8.00E-01 | 1E-02 | 7E-03 | **1E+00** | 8E-01 | **1E+00** | 8E-01 |
| **GBH - high** | **tPCB-high** | **2.62E+00** | **8.97E-01** | 1.00E+01 | 1.42E-02 | 7.70E+00 | 7.71E+00 | 5.67E-01 | 3.08E+02 | 3.08E+02 | 2.10E+00 | 4.50E+00 | 3E-01 | 1E-01 | **1E+02** | **7E+01** | **1E+02** | **7E+01** |
| **Osprey - mid** | **tPCB-med** | **2.62E+00** | **8.97E-01** | 1.00E+01 | NA | 2.27E+00 | 2.27E+00 | -- | 9.09E+01 | 9.09E+01 | 2.80E+01 | 6.60E+01 | -- | -- | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | **3.02E+00** | **8.15E-01** | 8.00E-01 | NA | 5.11E-02 | 5.11E-02 | -- | 1.63E-01 | 1.64E-01 | 4.40E-01 | 8.00E-01 | -- | -- | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Osprey - high** | **tPCB-high** | **2.62E+00** | **8.97E-01** | 1.00E+01 | NA | 2.27E+00 | 2.27E+00 | -- | 9.09E+01 | 9.09E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **4E+01** | **2E+01** | **4E+01** | **2E+01** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-140**

**Lower Trophic Level Terrestrial Risk Calculations For Reach C8**

**Anniston PCB Site, Anniston, Alabama**

| Media | Receptor Community | COPC | Soil EPC (mg/kg) | Toxicity Benchmarks[a] (mg/kg) | | Hazard Quotients | |
|---|---|---|---|---|---|---|---|
| | | | | NOAEL | LOAEL | NOAEL | LOAEL |
| Soil - North | **Terrestrial Plants** | **PCB** | 1.91E+00 | 4.00E+01 | NA | 5E-02 | -- |
| | | **Chromium** | 2.37E+01 | 1.00E+00 | NA | **2E+01** | -- |
| | | **Lead** | 2.95E+01 | 1.20E+02 | NA | 2E-01 | -- |
| | | **Mercury** | 4.65E+00 | 3.00E-01 | NA | **2E+01** | -- |
| | | **Vanadium** | 2.28E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 1.91E+00 | 3.60E+00 | 3.60E+01 | 5E-01 | 5E-02 |
| | | **Chromium** | 2.37E+01 | 4.00E-01 | NA | **6E+01** | -- |
| | | **Lead** | 2.95E+01 | 1.70E+03 | NA | 2E-02 | -- |
| | | **Mercury** | 4.65E+00 | 1.00E-01 | 0.23 | **5E+01** | **2E+01** |
| | | **Vanadium** | 2.28E+01 | NA | NA | -- | -- |
| Soil - South | **Terrestrial Plants** | **PCB** | 1.29E+00 | 4.00E+01 | NA | 3E-02 | -- |
| | | **Chromium** | 1.88E+01 | 1.00E+00 | NA | **2E+01** | -- |
| | | **Lead** | 3.05E+01 | 1.20E+02 | NA | 3E-01 | -- |
| | | **Mercury** | 7.50E-01 | 3.00E-01 | NA | **3E+00** | -- |
| | | **Vanadium** | 2.83E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 1.29E+00 | 3.60E+00 | 3.60E+01 | 4E-01 | 4E-02 |
| | | **Chromium** | 1.88E+01 | 4.00E-01 | NA | **5E+01** | -- |
| | | **Lead** | 3.05E+01 | 1.70E+03 | NA | 2E-02 | -- |
| | | **Mercury** | 7.50E-01 | 1.00E-01 | 0.23 | **8E+00** | **3E+00** |
| | | **Vanadium** | 2.83E+01 | NA | NA | -- | -- |
| Soil - Riparian | **Terrestrial Plants** | **PCB** | 2.26E+00 | 4.00E+01 | NA | 6E-02 | -- |
| | | **Chromium** | 2.37E+01 | 1.00E+00 | NA | **2E+01** | -- |
| | | **Lead** | 3.05E+01 | 1.20E+02 | NA | 3E-01 | -- |
| | | **Mercury** | 4.65E+00 | 3.00E-01 | NA | **2E+01** | -- |
| | | **Vanadium** | 2.83E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 2.26E+00 | 3.60E+00 | 3.60E+01 | 6E-01 | 6E-02 |
| | | **Chromium** | 2.37E+01 | 4.00E-01 | NA | **6E+01** | -- |
| | | **Lead** | 3.05E+01 | 1.70E+03 | NA | 2E-02 | -- |
| | | **Mercury** | 4.65E+00 | 1.00E-01 | 0.23 | **5E+01** | **2E+01** |
| | | **Vanadium** | 2.83E+01 | NA | NA | -- | -- |

**Notes:**

a = NOAELs represent chronic values and LOAELs represent acute values
COPC = constituent of potential concern
EPC - exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
NA = not applicable
NOAEL = no observed adverse effect level
OU = Operable Unit
PCB = total polychlorinated biphenyl

**Bold indicates hazard quotients greater than 1**

**Table E3-141**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C8**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-141**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C8**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | |
|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Tree Swallow - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Osprey - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Osprey - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Bat** | **tPCB** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Otter** | **tPCB-mink** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |

**Table E3-141**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C8**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-141**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C8**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 1.38E-01 | 1.38E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 3.44E-01 | 3.70E-01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 3.58E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 3.58E+00 | 3.58E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 6.94E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 6.94E-02 | 7.20E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.54E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 4.54E-02 | 5.95E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.60E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 2.60E-02 | 2.61E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.46E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 1.46E-01 | 1.50E-01 | 3.44E-01 | 7.00E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 1.38E-01 | 1.38E-01 | 4.33E-02 | 1.30E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 5.23E-02 | 0.00E+00 | 5.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-02 | 2.66E-05 | 5.08E+00 | 5.08E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 2.19E+00 | 0.00E+00 | 2.19E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.62E-01 | 2.06E-02 | 5.23E+00 | 5.25E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 4.27E-01 | 0.00E+00 | 4.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 3.06E-03 | 1.29E+00 | 1.29E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 4.32E-01 | 0.00E+00 | 4.32E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-01 | 2.07E-03 | 9.89E-01 | 9.92E-01 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 6.53E-01 | 0.00E+00 | 6.53E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-01 | 1.14E-02 | 1.60E+00 | 1.61E+00 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 2.64E-02 | 0.00E+00 | 7.26E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E-02 | 7.31E-05 | 1.25E-01 | 1.25E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 2.96E-01 | 0.00E+00 | 2.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.44E-01 | 2.91E-03 | 8.35E-01 | 8.38E-01 | 3.44E-01 | 7.00E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 5.23E-02 | 0.00E+00 | 5.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-02 | 2.66E-05 | 5.08E+00 | 5.08E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E+00 | 0.00E+00 | 0.00E+00 | 3.22E-03 | 1.72E-05 | 3.11E+00 | 3.11E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.98E+00 | 0.00E+00 | 0.00E+00 | 8.48E-02 | 1.33E-02 | 4.06E+00 | 4.08E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E+00 | 0.00E+00 | 0.00E+00 | 4.29E-02 | 1.98E-03 | 1.31E+00 | 1.31E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 1.34E-03 | 3.06E+00 | 3.06E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.16E-02 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 7.40E-03 | 6.06E-02 | 6.80E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.89E-02 | 0.00E+00 | 0.00E+00 | 2.57E-03 | 4.73E-05 | 6.14E-02 | 6.15E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.92E-01 | 0.00E+00 | 0.00E+00 | 2.40E-02 | 1.88E-03 | 2.16E-01 | 2.18E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E+00 | 0.00E+00 | 0.00E+00 | 3.22E-03 | 1.72E-05 | 3.11E+00 | 3.11E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-02 | 0.00E+00 | 0.00E+00 | 2.36E+00 | 0.00E+00 | 1.76E-02 | 3.22E-03 | 1.72E-05 | 2.40E+00 | 2.40E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.57E+00 | 0.00E+00 | 0.00E+00 | 3.02E+00 | 0.00E+00 | 2.49E-01 | 8.48E-02 | 1.33E-02 | 7.93E+00 | 7.94E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 9.64E-01 | 0.00E+00 | 1.18E-01 | 4.29E-02 | 1.98E-03 | 1.16E+00 | 1.16E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.20E-02 | 1.23E-02 | 1.34E-03 | 2.94E+00 | 2.94E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.57E-02 | 0.00E+00 | 0.00E+00 | 2.40E-02 | 0.00E+00 | 2.85E-02 | 2.90E-02 | 7.40E-03 | 1.17E-01 | 1.25E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.37E-03 | 0.00E+00 | 0.00E+00 | 4.47E-02 | 0.00E+00 | 4.11E-03 | 2.57E-03 | 4.73E-05 | 5.68E-02 | 5.68E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.26E-02 | 0.00E+00 | 0.00E+00 | 1.46E-01 | 0.00E+00 | 1.08E-02 | 2.40E-02 | 1.88E-03 | 2.24E-01 | 2.25E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-02 | 0.00E+00 | 0.00E+00 | 2.36E+00 | 0.00E+00 | 1.76E-02 | 3.22E-03 | 1.72E-05 | 2.40E+00 | 2.40E+00 | 4.33E-02 | 1.30E-01 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 1.62E+00 | 1.62E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 5.62E-01 | 5.68E-01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 1.68E-01 | 1.69E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 2.05E-02 | 2.11E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.66E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 1.66E-02 | 2.01E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 3.19E-02 | 3.19E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.62E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 2.62E-02 | 2.70E-02 | 3.44E-01 | 7.00E-01 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 1.62E+00 | 1.62E+00 | 4.33E-02 | 1.30E-01 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 1.02E-01 | 1.02E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 2.54E-01 | 2.74E-01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.64E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 2.64E+00 | 2.65E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 5.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 5.12E-02 | 5.32E-02 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 3.35E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 3.35E-02 | 4.43E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.92E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 1.92E-02 | 1.93E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.08E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 1.08E-01 | 1.10E-01 | 4.16E+00 | 8.31E+00 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.83E-01 | 4.86E-01 | 2.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.08E+00 | 1.08E+00 | 5.00E-02 | 1.00E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.83E-01 | 4.86E-01 | 2.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.08E+00 | 1.08E+00 | na | 5.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-01 | 4.82E-02 | 2.64E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 4.45E-01 | 4.55E-01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.98E-02 | 1.66E-02 | 8.42E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 1.41E-01 | 1.42E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 1.80E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.09E-01 | 2.10E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.94E-03 | 1.80E-03 | 2.10E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 7.83E-03 | 1.33E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.56E-03 | 9.90E-03 | 3.91E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 2.14E-02 | 2.14E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.20E-03 | 1.63E-03 | 1.28E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 2.06E-02 | 2.20E-02 | 4.16E+00 | 8.31E+00 |

**Table E3-141**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C8**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Barium** | 2E-02 | 8E-03 | 2E-02 | 9E-03 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 9E-03 | 9E-03 | 9E-03 | 9E-03 |
| | **Lead** | 3E-02 | 1E-02 | 4E-02 | 2E-02 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1E+00 | 5E-01 | 1E+00 | 5E-01 |
| | **Mercury** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Barium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Vanadium** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | **7E+01** | **2E+01** | **7E+01** | **2E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Chromium** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 7E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Mercury** | **3E+00** | 8E-01 | **3E+00** | 8E-01 |
| | **Vanadium** | 6E-01 | 3E-01 | 7E-01 | 3E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | **6E+01** | **2E+01** | **6E+01** | **2E+01** |
| **Osprey - mid** | **tPCB-med** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Barium** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 6E-02 | 6E-02 | 6E-02 | 6E-02 |
| | **Cobalt** | 3E-03 | 3E-03 | 3E-03 | 3E-03 |
| | **Lead** | 1E-02 | 5E-03 | 1E-02 | 6E-03 |
| | **Mercury** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| **Osprey - high** | **tPCB-high** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Bat** | **tPCB** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Barium** | 5E-03 | 2E-03 | 5E-03 | 2E-03 |
| | **Chromium** | **1E+00** | 9E-01 | **1E+00** | 9E-01 |
| | **Cobalt** | 7E-03 | 5E-03 | 7E-03 | 5E-03 |
| | **Lead** | 7E-03 | 4E-03 | 9E-03 | 5E-03 |
| | **Mercury** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | **2E+01** | **1E+01** | **2E+01** | **1E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | **--** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 9E-03 | 4E-03 | 9E-03 | 4E-03 |
| | **Chromium** | 6E-02 | 5E-02 | 6E-02 | 5E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 2E-03 | 9E-04 | 3E-03 | 1E-03 |
| | **Mercury** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 5E-03 | 2E-03 | 5E-03 | 3E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-142**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **1.91E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.95E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **1.91E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.91E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.95E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **1.91E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.91E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.95E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.91E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **1.91E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.95E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **1.91E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.95E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **1.91E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.95E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **1.91E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.95E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **1.91E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **2.95E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-142**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioacccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.50E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.76E-02 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.28E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.13E-02 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.01E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.65E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.31E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.79E-01 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.29E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.48E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.50E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.76E-02 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.27E-01 | 5.47E-03 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 4.10E-02 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.77E-02 | 5.09E-03 | 0.00E+00 | 1.14E-01 | 0.00E+00 | 9.96E-02 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.54E-01 | 1.24E-01 | 0.00E+00 | 3.66E-01 | 0.00E+00 | 5.07E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.10E-02 | 4.09E-03 | 0.00E+00 | 3.28E-01 | 0.00E+00 | 6.32E-01 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.93E-02 | 3.15E-03 | 0.00E+00 | 2.40E-01 | 0.00E+00 | 4.88E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.27E-01 | 5.47E-03 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 4.10E-02 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.34E-02 | 3.57E-02 | 3.09E-01 | 6.38E-01 | 0.00E+00 | 6.53E-02 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.10E-03 | 3.32E-02 | 2.47E-01 | 5.10E-01 | 0.00E+00 | 1.59E-01 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 4.67E-02 | 8.09E-01 | 7.95E-01 | 1.64E+00 | 0.00E+00 | 8.09E-01 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.03E-03 | 2.67E-02 | 7.14E-01 | 1.47E+00 | 0.00E+00 | 1.01E+00 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.55E-03 | 2.05E-02 | 5.23E-01 | 1.08E+00 | 0.00E+00 | 7.78E-01 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.34E-02 | 3.57E-02 | 3.09E-01 | 6.38E-01 | 0.00E+00 | 6.53E-02 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.63E-02 | 1.06E-02 | 3.99E-01 | 2.75E-01 | 0.00E+00 | 7.34E-03 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.57E-03 | 9.86E-03 | 3.19E-01 | 2.20E-01 | 0.00E+00 | 1.78E-02 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.27E-02 | 2.41E-01 | 1.03E+00 | 7.09E-01 | 0.00E+00 | 9.09E-02 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.42E-03 | 7.92E-03 | 9.23E-01 | 6.36E-01 | 0.00E+00 | 1.13E-01 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.48E-03 | 6.10E-03 | 6.76E-01 | 4.66E-01 | 0.00E+00 | 8.74E-02 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.56E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.61E-04 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.41E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-03 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.95E-03 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.36E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.65E-03 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.37E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.68E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E-01 | 4.89E-03 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.82E-02 | 1.19E-02 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.21E-01 | 6.05E-02 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.71E-01 | 7.53E-02 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 5.82E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.86E-03 | 0.00E+00 | 1.28E-02 | 0.00E+00 | 8.83E-02 | 2.03E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.50E-03 | 0.00E+00 | 1.02E-02 | 0.00E+00 | 1.93E-02 | 4.93E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.37E-02 | 0.00E+00 | 3.29E-02 | 0.00E+00 | 2.12E-01 | 2.51E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.96E-04 | 0.00E+00 | 2.96E-02 | 0.00E+00 | 8.62E-02 | 3.13E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.04E-03 | 0.00E+00 | 2.17E-02 | 0.00E+00 | 1.87E-01 | 2.42E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.02E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-01 | 2.03E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.40E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.32E-02 | 4.93E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.03E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.55E-01 | 2.51E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.75E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-01 | 3.13E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.07E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.42E-02 | 1.45E-03 |

**Table E3-142**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 1.88E-01 | 1.88E-01 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | 1.24E-01 | 1.24E-01 | 2.27E-02 | 6.80E-02 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Chromium** | 7.66E-01 | 7.68E-01 | 2.66E+00 | 2.80E+00 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 5.92E-01 | 6.00E-01 | 1.63E+00 | 3.26E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 4.70E-01 | 4.72E-01 | 3.44E-01 | 7.00E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.88E-01 | 1.88E-01 | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Blue Jay - mid** | **tPCB-med** | 3.16E-01 | 3.16E-01 | 4.67E-01 | 1.40E+00 | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Mercury** | 2.46E-01 | 2.46E-01 | 2.27E-02 | 6.80E-02 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Chromium** | 1.25E+00 | 1.25E+00 | 2.66E+00 | 2.80E+00 | 5E-01 | 4E-01 | 5E-01 | 4E-01 |
| | **Lead** | 9.75E-01 | 9.84E-01 | 1.63E+00 | 3.26E+00 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 7.51E-01 | 7.53E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | 3.16E-01 | 3.16E-01 | 4.33E-02 | 1.30E-01 | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 1.07E+00 | 1.07E+00 | 4.67E-01 | 1.40E+00 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 9.54E-01 | 9.54E-01 | 2.27E-02 | 6.80E-02 | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| | **Chromium** | 4.10E+00 | 4.11E+00 | 2.66E+00 | 2.80E+00 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Lead** | 3.22E+00 | 3.24E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Vanadium** | 2.40E+00 | 2.41E+00 | 3.44E-01 | 7.00E-01 | **7E+00** | **3E+00** | **7E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 1.07E+00 | 1.07E+00 | 4.33E-02 | 1.30E-01 | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Shrew - 1** | **tPCB** | 7.09E-01 | 7.09E-01 | 2.30E-01 | 6.80E-01 | **3E+00** | 1E+00 | **3E+00** | 1E+00 |
| | **Mercury** | 5.70E-01 | 5.70E-01 | 7.50E-02 | 1.50E-01 | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Chromium** | 2.10E+00 | 2.10E+00 | 2.40E+00 | 2.82E+00 | 9E-01 | 7E-01 | 9E-01 | 7E-01 |
| | **Lead** | 1.68E+00 | 1.69E+00 | 4.70E+00 | 8.90E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 1.24E+00 | 1.24E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| **Deer** | **tPCB** | 1.62E-02 | 1.62E-02 | 2.30E-01 | 6.80E-01 | 7E-02 | 2E-02 | 7E-02 | 2E-02 |
| | **Mercury** | 4.77E-03 | 4.80E-03 | 7.50E-02 | 1.50E-01 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Chromium** | 3.82E-02 | 3.93E-02 | 2.40E+00 | 2.82E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 1.00E-02 | 1.44E-02 | 4.70E+00 | 8.90E+00 | 2E-03 | 1E-03 | 3E-03 | 2E-03 |
| | **Vanadium** | 9.05E-03 | 1.02E-02 | 4.16E+00 | 8.31E+00 | 2E-03 | 1E-03 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | 1.80E-01 | 1.80E-01 | 2.30E-01 | 6.80E-01 | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| | **Mercury** | 5.01E-02 | 5.02E-02 | 7.50E-02 | 1.50E-01 | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| | **Chromium** | 4.81E-01 | 4.83E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 2.46E-01 | 2.54E-01 | 4.70E+00 | 8.90E+00 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 4.29E-01 | 4.31E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 1.10E-01 | 1.10E-01 | 2.30E-01 | 6.80E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 3.59E-02 | 3.60E-02 | 7.50E-02 | 1.50E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 2.84E-01 | 2.85E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1.48E-01 | 1.53E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Vanadium** | 2.34E-01 | 2.35E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 1.10E-01 | 1.10E-01 | 2.30E-01 | 6.80E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 2.85E-02 | 2.86E-02 | 7.50E-02 | 1.50E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Chromium** | 2.84E-01 | 2.86E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1.35E-01 | 1.41E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Vanadium** | 2.49E-01 | 2.51E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-143**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **1.29E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.05E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **1.29E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.29E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.05E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **1.29E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.29E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.05E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.29E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **1.29E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.05E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **1.29E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.05E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **1.29E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.05E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **1.29E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.05E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **1.29E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **3.05E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-143**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.07E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E-02 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 5.30E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E-02 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.68E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.35E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.98E-01 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.84E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.55E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.07E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E-02 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 9.03E-02 | 3.69E-03 | 0.00E+00 | 9.28E-02 | 0.00E+00 | 2.76E-02 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 4.47E-03 | 8.21E-04 | 0.00E+00 | 2.80E-02 | 0.00E+00 | 1.61E-02 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.01E-01 | 1.24E-01 | 0.00E+00 | 2.89E-01 | 0.00E+00 | 4.01E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.14E-02 | 4.22E-03 | 0.00E+00 | 3.39E-01 | 0.00E+00 | 6.52E-01 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.40E-02 | 3.91E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 6.06E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 9.03E-02 | 3.69E-03 | 0.00E+00 | 9.28E-02 | 0.00E+00 | 2.76E-02 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.66E-02 | 2.41E-02 | 2.02E-01 | 4.17E-01 | 0.00E+00 | 4.41E-02 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 8.23E-04 | 5.35E-03 | 6.10E-02 | 1.26E-01 | 0.00E+00 | 2.56E-02 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.70E-02 | 8.09E-01 | 6.29E-01 | 1.30E+00 | 0.00E+00 | 6.40E-01 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.10E-03 | 2.75E-02 | 7.37E-01 | 1.52E+00 | 0.00E+00 | 1.04E+00 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 4.41E-03 | 2.55E-02 | 6.49E-01 | 1.34E+00 | 0.00E+00 | 9.66E-01 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.66E-02 | 2.41E-02 | 2.02E-01 | 4.17E-01 | 0.00E+00 | 4.41E-02 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.16E-02 | 7.15E-03 | 2.61E-01 | 1.80E-01 | 0.00E+00 | 4.95E-03 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 5.75E-04 | 1.59E-03 | 7.88E-02 | 5.43E-02 | 0.00E+00 | 2.88E-03 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.58E-02 | 2.41E-01 | 8.13E-01 | 5.61E-01 | 0.00E+00 | 7.19E-02 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.47E-03 | 8.18E-03 | 9.53E-01 | 6.57E-01 | 0.00E+00 | 1.17E-01 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.08E-03 | 7.57E-03 | 8.39E-01 | 5.78E-01 | 0.00E+00 | 1.09E-01 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.11E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-04 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 5.50E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.20E-04 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.50E-03 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.40E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.92E-03 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.94E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.29E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-01 | 3.30E-03 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 1.91E-03 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.33E-01 | 4.79E-02 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-01 | 7.77E-02 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 7.22E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.87E-03 | 0.00E+00 | 8.36E-03 | 0.00E+00 | 7.12E-02 | 1.37E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.41E-04 | 0.00E+00 | 2.53E-03 | 0.00E+00 | 3.11E-03 | 7.95E-04 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.08E-02 | 0.00E+00 | 2.61E-02 | 0.00E+00 | 1.68E-01 | 1.99E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.15E-04 | 0.00E+00 | 3.05E-02 | 0.00E+00 | 8.90E-02 | 3.23E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.29E-03 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 1.87E-01 | 3.00E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.43E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.57E-02 | 1.37E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.10E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E-03 | 7.95E-04 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.19E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-01 | 1.99E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.81E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E-01 | 3.23E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.80E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 3.00E-02 | 1.45E-03 |

**Table E3-143**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 1.32E-01 | 1.32E-01 | 4.67E-01 | 1.40E+00 | 3E-01 | 9E-02 | 3E-01 | 9E-02 |
| | **Mercury** | 2.00E-02 | 2.01E-02 | 2.27E-02 | 6.80E-02 | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Chromium** | 6.06E-01 | 6.08E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 6.11E-01 | 6.19E-01 | 1.63E+00 | 3.26E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 5.84E-01 | 5.86E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.32E-01 | 1.32E-01 | 4.33E-02 | 1.30E-01 | **3E+00** | 1E+00 | **3E+00** | 1E+00 |
| **Blue Jay - mid** | **tPCB-med** | 2.14E-01 | 2.14E-01 | 4.67E-01 | 1.40E+00 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 4.94E-02 | 4.95E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Chromium** | 1.02E+00 | 1.02E+00 | 2.66E+00 | 2.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 1.01E+00 | 1.02E+00 | 1.63E+00 | 3.26E+00 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 9.32E-01 | 9.35E-01 | 3.44E-01 | 7.00E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | 2.14E-01 | 2.14E-01 | 4.33E-02 | 1.30E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 7.03E-01 | 7.03E-01 | 4.67E-01 | 1.40E+00 | **2E+00** | 5E-01 | **2E+00** | 5E-01 |
| | **Mercury** | 2.19E-01 | 2.19E-01 | 2.27E-02 | 6.80E-02 | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Chromium** | 3.41E+00 | 3.42E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | 3.33E+00 | 3.35E+00 | 1.63E+00 | 3.26E+00 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Vanadium** | 2.98E+00 | 2.99E+00 | 3.44E-01 | 7.00E-01 | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 7.03E-01 | 7.03E-01 | 4.33E-02 | 1.30E-01 | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| **Shrew - 1** | **tPCB** | 4.64E-01 | 4.64E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 1.38E-01 | 1.38E-01 | 7.50E-02 | 1.50E-01 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Chromium** | 1.71E+00 | 1.72E+00 | 2.40E+00 | 2.82E+00 | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Lead** | 1.74E+00 | 1.75E+00 | 4.70E+00 | 8.90E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 1.54E+00 | 1.54E+00 | 4.16E+00 | 8.31E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Deer** | **tPCB** | 1.15E-02 | 1.15E-02 | 2.30E-01 | 6.80E-01 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Mercury** | 7.69E-04 | 7.98E-04 | 7.50E-02 | 1.50E-01 | 1E-02 | 5E-03 | 1E-02 | 5E-03 |
| | **Chromium** | 3.02E-02 | 3.14E-02 | 2.40E+00 | 2.82E+00 | 1E-02 | 1E-02 | 1E-02 | 1E-02 |
| | **Lead** | 1.03E-02 | 1.48E-02 | 4.70E+00 | 8.90E+00 | 2E-03 | 1E-03 | 3E-03 | 2E-03 |
| | **Vanadium** | 1.12E-02 | 1.24E-02 | 4.16E+00 | 8.31E+00 | 3E-03 | 1E-03 | 3E-03 | 1E-03 |
| **Weasel** | **tPCB** | 1.45E-01 | 1.45E-01 | 2.30E-01 | 6.80E-01 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Mercury** | 8.08E-03 | 8.13E-03 | 7.50E-02 | 1.50E-01 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 3.81E-01 | 3.83E-01 | 2.40E+00 | 2.82E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 2.54E-01 | 2.62E-01 | 4.70E+00 | 8.90E+00 | 5E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Vanadium** | 4.43E-01 | 4.45E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 8.58E-02 | 8.58E-02 | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | 6.67E-03 | 6.71E-03 | 7.50E-02 | 1.50E-01 | 9E-02 | 4E-02 | 9E-02 | 4E-02 |
| | **Chromium** | 2.24E-01 | 2.26E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Lead** | 1.52E-01 | 1.58E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Vanadium** | 2.45E-01 | 2.47E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 8.85E-02 | 8.85E-02 | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | 4.60E-03 | 4.64E-03 | 7.50E-02 | 1.50E-01 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Chromium** | 2.25E-01 | 2.26E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Lead** | 1.39E-01 | 1.45E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Vanadium** | 2.55E-01 | 2.57E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-144**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.91E+00** | **1.02E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.30E+02** | **2.69E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.10E+00** | **3.90E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.95E+01** | **9.20E+00** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **7.60E+00** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.91E+00** | **1.02E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.91E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.30E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.10E+00** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.95E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.91E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.91E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.30E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.10E+00** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.95E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **1.91E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.30E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.10E+00** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.95E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |

**Table E3-144**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-144**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-144**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-144**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.45E+01 | 2.18E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.45E+01 | 2.18E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 2.45E+01 | 2.18E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 2.45E+01 | 2.18E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 2.45E+01 | 2.18E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 2.45E+01 | 2.18E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-144**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| Carolina Wren - 2 - mid | tPCB-med | 5.76E-03 | 0.00E+00 | 0.00E+00 | 3.09E-01 | 0.00E+00 | 3.57E-02 | 0.00E+00 | 3.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 8.70E-01 | 0.00E+00 | 0.00E+00 | 3.89E+00 | 0.00E+00 | 5.59E-01 | 0.00E+00 | 1.66E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 8.40E-02 | 0.00E+00 | 0.00E+00 | 7.95E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 9.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.54E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 2.53E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 1.02E-01 | 0.00E+00 | 0.00E+00 | 7.14E-01 | 0.00E+00 | 2.67E-02 | 0.00E+00 | 4.60E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 1.43E-03 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 0.00E+00 | 3.32E-02 | 0.00E+00 | 1.32E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 5.49E-02 | 0.00E+00 | 0.00E+00 | 5.23E-01 | 0.00E+00 | 2.05E-02 | 0.00E+00 | 3.60E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Carolina wren - 2 - high | tPCB-high | 5.76E-03 | 0.00E+00 | 0.00E+00 | 3.09E-01 | 0.00E+00 | 3.57E-02 | 0.00E+00 | 3.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hawk - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.94E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.49E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hawk - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 0.00E+00 | 1.26E-02 | 0.00E+00 | 2.27E-02 | 0.00E+00 | 8.73E-04 | 2.27E-02 | 0.00E+00 | 4.20E-03 | 0.00E+00 | 0.00E+00 | 2.08E-03 | 1.35E-02 | 0.00E+00 |
| | Barium | 0.00E+00 | 1.34E+00 | 0.00E+00 | 2.85E-01 | 0.00E+00 | 1.37E-02 | 2.85E-01 | 0.00E+00 | 3.89E-02 | 0.00E+00 | 0.00E+00 | 5.33E-01 | 4.69E-03 | 0.00E+00 |
| | Chromium | 0.00E+00 | 2.51E-02 | 0.00E+00 | 5.83E-02 | 0.00E+00 | 1.98E-02 | 5.83E-02 | 0.00E+00 | 1.01E-02 | 0.00E+00 | 0.00E+00 | 3.63E-03 | 1.40E-03 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 5.44E-03 | 0.00E+00 | 1.86E-02 | 0.00E+00 | 4.95E-02 | 1.86E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.71E-04 | 0.00E+00 |
| | Lead | 0.00E+00 | 1.09E-03 | 0.00E+00 | 5.24E-02 | 0.00E+00 | 6.52E-04 | 5.24E-02 | 0.00E+00 | 4.10E-03 | 0.00E+00 | 0.00E+00 | 4.15E-03 | 1.39E-04 | 0.00E+00 |
| | Mercury | 0.00E+00 | 2.74E-03 | 0.00E+00 | 1.81E-02 | 0.00E+00 | 8.12E-04 | 1.81E-02 | 0.00E+00 | 9.16E-04 | 0.00E+00 | 0.00E+00 | 6.25E-04 | 2.67E-04 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 1.91E-03 | 0.00E+00 | 3.83E-02 | 0.00E+00 | 5.02E-04 | 3.83E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.97E-03 | 2.19E-04 | 0.00E+00 |
| Shrew - 2 | tPCB | 0.00E+00 | 2.31E-02 | 0.00E+00 | 4.43E-01 | 0.00E+00 | 7.28E-03 | 1.89E-01 | 0.00E+00 | 1.89E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 2.46E+00 | 0.00E+00 | 5.57E+00 | 0.00E+00 | 1.14E-01 | 2.38E+00 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 4.63E-02 | 0.00E+00 | 1.14E+00 | 0.00E+00 | 1.65E-01 | 4.86E-01 | 0.00E+00 | 4.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 1.00E-02 | 0.00E+00 | 3.64E-01 | 0.00E+00 | 4.13E-01 | 1.55E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 2.01E-03 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 5.44E-03 | 4.37E-01 | 0.00E+00 | 1.84E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 5.05E-03 | 0.00E+00 | 3.54E-01 | 0.00E+00 | 6.77E-03 | 1.51E-01 | 0.00E+00 | 4.12E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 3.52E-03 | 0.00E+00 | 7.49E-01 | 0.00E+00 | 4.19E-03 | 3.20E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-144**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 4.23E-05 | 4.10E-01 | 3.26E-01 | 7.36E-01 | 7.36E-01 | 4.67E-01 | 1.40E+00 | 9E-01 | 3E-01 | 7E-01 | 2E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.44E+00 | 0.00E+00 | 3.27E-02 | 8.88E+00 | 2.53E+00 | 1.14E+01 | 1.14E+01 | 2.08E+01 | 4.17E+01 | 4E-01 | 2E-01 | 1E-01 | 6E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 4.86E-03 | 2.41E+00 | 1.03E+00 | 3.44E+00 | 3.44E+00 | 2.66E+00 | 2.80E+00 | 9E-01 | 9E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.76E-01 | 0.00E+00 | 3.29E-03 | 2.55E+00 | 1.01E+00 | 3.57E+00 | 3.57E+00 | 7.61E+00 | 7.80E+00 | 3E-01 | 3E-01 | 1E-01 | 1E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 1.82E-02 | 1.75E+00 | 5.62E-01 | 2.31E+00 | 2.33E+00 | 1.63E+00 | 3.26E+00 | **1E+00** | 5E-01 | 3E-01 | 2E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 0.00E+00 | 1.16E-04 | 4.39E-01 | 1.34E-01 | 5.72E-01 | 5.73E-01 | 2.27E-02 | 6.80E-02 | **2E+01** | **6E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.78E-01 | 0.00E+00 | 4.62E-03 | 1.32E+00 | 4.15E-01 | 1.74E+00 | 1.74E+00 | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **1E+00** | 6E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 4.23E-05 | 4.10E-01 | 3.26E-01 | 7.36E-01 | 7.36E-01 | 4.33E-02 | 1.30E-01 | **9E+00** | **3E+00** | **8E+00** | **3E+00** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 2.61E-01 | 0.00E+00 | 8.75E-03 | 4.66E-03 | 8.93E-06 | 2.15E-01 | 2.66E-01 | 4.80E-01 | 4.80E-01 | 4.67E-01 | 1.40E+00 | 5E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 0.00E+00 | 7.44E-02 | 0.00E+00 | 5.94E-01 | 1.23E-01 | 6.90E-03 | 2.50E+00 | 1.97E-01 | 2.70E+00 | 2.71E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 6E-02 | 9E-03 | 5E-03 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.08E-01 | 6.21E-02 | 1.03E-03 | 6.02E-01 | 1.56E-01 | 7.58E-01 | 7.59E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 6E-02 | 6E-02 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 3.70E-02 | 1.78E-02 | 6.95E-04 | 1.13E+00 | 2.53E-01 | 1.38E+00 | 1.38E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 3E-02 | 3E-02 |
| | **Lead** | 0.00E+00 | 8.53E-03 | 0.00E+00 | 1.35E-01 | 4.20E-02 | 3.84E-03 | 3.36E-01 | 5.06E-02 | 3.86E-01 | 3.90E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 1E-01 | 3E-02 | 2E-02 |
| | **Mercury** | 0.00E+00 | 1.12E-02 | 0.00E+00 | 2.12E-02 | 3.72E-03 | 2.45E-05 | 6.62E-02 | 1.49E-02 | 8.11E-02 | 8.11E-02 | 2.27E-02 | 6.80E-02 | **3E+00** | 1E+00 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.04E-01 | 3.47E-02 | 9.75E-04 | 5.40E-01 | 1.29E-01 | 6.69E-01 | 6.70E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 4E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 2.61E-01 | 0.00E+00 | 8.75E-03 | 4.66E-03 | 8.93E-06 | 2.15E-01 | 2.66E-01 | 4.80E-01 | 4.80E-01 | 4.33E-02 | 1.30E-01 | **5E+00** | **2E+00** | **6E+00** | **2E+00** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.34E-02 | 1.79E-03 | 4.83E-03 | 0.00E+00 | 1.30E-05 | 6.78E-02 | 3.08E-02 | 9.86E-02 | 9.86E-02 | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | 1E-01 | 5E-02 |
| | **Barium** | 0.00E+00 | 3.83E-03 | 2.54E-02 | 3.28E-01 | 0.00E+00 | 1.00E-02 | 2.29E+00 | 5.67E-01 | 2.85E+00 | 2.86E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 1E-02 | 5E-03 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 1.21E-02 | 5.98E-02 | 0.00E+00 | 1.49E-03 | 2.31E-01 | 2.20E-02 | 2.53E-01 | 2.55E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 8E-02 | 9E-03 | 8E-03 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 1.22E-03 | 2.04E-02 | 0.00E+00 | 1.01E-03 | 1.35E-01 | 8.32E-02 | 2.18E-01 | 2.19E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 |
| | **Lead** | 0.00E+00 | 4.39E-04 | 2.91E-03 | 7.44E-02 | 0.00E+00 | 5.59E-03 | 1.85E-01 | 7.65E-03 | 1.93E-01 | 1.98E-01 | 4.70E+00 | 8.90E+00 | 4E-02 | 2E-02 | 2E-03 | 9E-04 |
| | **Mercury** | 0.00E+00 | 5.76E-04 | 4.20E-04 | 1.17E-02 | 0.00E+00 | 3.57E-05 | 5.24E-02 | 1.89E-03 | 5.43E-02 | 5.43E-02 | 7.50E-02 | 1.50E-01 | 7E-01 | 3E-01 | 3E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 1.10E-03 | 5.75E-02 | 0.00E+00 | 1.42E-03 | 1.45E-01 | 1.11E-02 | 1.57E-01 | 1.58E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 3E-03 | 1E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 3.20E-02 | 2.85E-03 | 7.34E-03 | 3.91E-03 | 2.35E-05 | 6.88E-01 | 3.88E-02 | 7.27E-01 | 7.27E-01 | 2.30E-01 | 6.80E-01 | **3E+00** | 1E+00 | 2E-01 | 6E-02 |
| | **Barium** | 0.00E+00 | 9.13E-03 | 4.04E-02 | 4.98E-01 | 1.03E-01 | 1.82E-02 | 1.12E+01 | 1.53E-01 | 1.14E+01 | 1.14E+01 | 5.18E+01 | 1.21E+02 | 2E-01 | 9E-02 | 3E-03 | 1E-03 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 1.92E-02 | 9.09E-02 | 5.22E-02 | 2.70E-03 | 1.97E+00 | 8.29E-02 | 2.06E+00 | 2.06E+00 | 2.40E+00 | 2.82E+00 | 8E-01 | 7E-01 | 3E-02 | 3E-02 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 1.94E-03 | 3.11E-02 | 1.50E-02 | 1.83E-03 | 1.07E+00 | 4.57E-02 | 1.12E+00 | 1.12E+00 | 7.33E+00 | 1.00E+01 | 1E-01 | 1E-01 | 6E-03 | 5E-03 |
| | **Lead** | 0.00E+00 | 1.05E-03 | 4.62E-03 | 1.13E-01 | 3.53E-02 | 1.01E-02 | 1.60E+00 | 4.09E-02 | 1.64E+00 | 1.65E+00 | 4.70E+00 | 8.90E+00 | 3E-01 | 2E-01 | 9E-03 | 5E-03 |
| | **Mercury** | 0.00E+00 | 1.37E-03 | 6.67E-04 | 1.78E-02 | 3.13E-03 | 6.45E-05 | 5.38E-01 | 5.17E-03 | 5.44E-01 | 5.44E-01 | 7.50E-02 | 1.50E-01 | **7E+00** | **4E+00** | 7E-02 | 3E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 1.75E-03 | 8.74E-02 | 2.91E-02 | 2.57E-03 | 1.20E+00 | 4.24E-02 | 1.25E+00 | 1.25E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 1E-01 | 1E-02 | 5E-03 |

**Table E3-144**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **2E+00** | 5E-01 | **2E+00** | 5E-01 |
| | **Barium** | 5E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Mercury** | **3E+01** | **8E+00** | **3E+01** | **8E+00** |
| | **Vanadium** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| **Hawk - mid** | **tPCB-med** | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Barium** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Raccoon - 1** | **tPCB** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Barium** | 6E-02 | 2E-02 | 6E-02 | 2E-02 |
| | **Chromium** | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| | **Vanadium** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Barium** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 9E-01 | 7E-01 | 9E-01 | 7E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 3E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | **7E+00** | **4E+00** | **7E+00** | **4E+00** |
| | **Vanadium** | 3E-01 | 1E-01 | 3E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-145**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.29E+00** | **1.02E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.88E+01** | **1.36E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **7.50E-01** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.29E+00** | **1.02E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.29E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **1.88E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **7.50E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.29E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.29E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **1.88E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **7.50E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **1.29E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **1.88E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **7.50E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-145**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-145**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-145**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-145**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.45E+01 | 2.18E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.45E+01 | 2.18E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 2.45E+01 | 2.18E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 2.45E+01 | 2.18E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 2.45E+01 | 2.18E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 2.45E+01 | 2.18E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-145**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.76E-03 | 0.00E+00 | 0.00E+00 | 2.02E-01 | 0.00E+00 | 2.41E-02 | 0.00E+00 | 3.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 8.70E-01 | 0.00E+00 | 0.00E+00 | 4.26E+00 | 0.00E+00 | 6.12E-01 | 0.00E+00 | 1.66E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 8.40E-02 | 0.00E+00 | 0.00E+00 | 6.29E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 9.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 2.53E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.02E-01 | 0.00E+00 | 0.00E+00 | 7.37E-01 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 4.60E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.43E-03 | 0.00E+00 | 0.00E+00 | 6.10E-02 | 0.00E+00 | 5.35E-03 | 0.00E+00 | 1.32E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 5.49E-02 | 0.00E+00 | 0.00E+00 | 6.49E-01 | 0.00E+00 | 2.55E-02 | 0.00E+00 | 3.60E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.76E-03 | 0.00E+00 | 0.00E+00 | 2.02E-01 | 0.00E+00 | 2.41E-02 | 0.00E+00 | 3.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.91E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.07E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.25E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 8.94E-03 | 0.00E+00 | 1.48E-02 | 0.00E+00 | 5.89E-04 | 1.48E-02 | 0.00E+00 | 3.39E-03 | 0.00E+00 | 0.00E+00 | 2.08E-03 | 1.35E-02 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 1.46E+00 | 0.00E+00 | 3.13E-01 | 0.00E+00 | 1.50E-02 | 3.13E-01 | 0.00E+00 | 4.27E-02 | 0.00E+00 | 0.00E+00 | 5.33E-01 | 4.69E-03 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 1.99E-02 | 0.00E+00 | 4.61E-02 | 0.00E+00 | 1.98E-02 | 4.61E-02 | 0.00E+00 | 7.97E-03 | 0.00E+00 | 0.00E+00 | 3.63E-03 | 1.40E-03 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 9.13E-03 | 0.00E+00 | 3.13E-02 | 0.00E+00 | 4.95E-02 | 3.13E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.71E-04 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.13E-03 | 0.00E+00 | 5.40E-02 | 0.00E+00 | 6.73E-04 | 5.40E-02 | 0.00E+00 | 4.23E-03 | 0.00E+00 | 0.00E+00 | 4.15E-03 | 1.39E-04 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 4.43E-04 | 0.00E+00 | 4.47E-03 | 0.00E+00 | 1.31E-04 | 4.47E-03 | 0.00E+00 | 1.48E-04 | 0.00E+00 | 0.00E+00 | 6.25E-04 | 2.67E-04 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.37E-03 | 0.00E+00 | 4.76E-02 | 0.00E+00 | 6.23E-04 | 4.76E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.97E-03 | 2.19E-04 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 1.65E-02 | 0.00E+00 | 2.89E-01 | 0.00E+00 | 4.91E-03 | 1.23E-01 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.70E+00 | 0.00E+00 | 6.11E+00 | 0.00E+00 | 1.25E-01 | 2.61E+00 | 0.00E+00 | 1.92E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 3.66E-02 | 0.00E+00 | 9.01E-01 | 0.00E+00 | 1.65E-01 | 3.85E-01 | 0.00E+00 | 3.58E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 1.68E-02 | 0.00E+00 | 6.12E-01 | 0.00E+00 | 4.13E-01 | 2.61E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.08E-03 | 0.00E+00 | 1.06E+00 | 0.00E+00 | 5.61E-03 | 4.51E-01 | 0.00E+00 | 1.90E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 8.15E-04 | 0.00E+00 | 8.74E-02 | 0.00E+00 | 1.09E-03 | 3.73E-02 | 0.00E+00 | 6.64E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 4.37E-03 | 0.00E+00 | 9.30E-01 | 0.00E+00 | 5.20E-03 | 3.97E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-145**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.41E-02 | 0.00E+00 | 4.23E-05 | 2.70E-01 | 3.26E-01 | 5.96E-01 | 5.96E-01 | 4.67E-01 | 1.40E+00 | 6E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.86E+00 | 0.00E+00 | 3.27E-02 | 9.74E+00 | 2.53E+00 | 1.23E+01 | 1.23E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 2E-01 | 1E-01 | 6E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.40E-01 | 0.00E+00 | 4.86E-03 | 2.08E+00 | 1.03E+00 | 3.10E+00 | 3.11E+00 | 2.66E+00 | 2.80E+00 | 8E-01 | 7E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-01 | 0.00E+00 | 3.29E-03 | 2.91E+00 | 1.01E+00 | 3.93E+00 | 3.93E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 1E-01 | 1E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 1.82E-02 | 1.80E+00 | 5.62E-01 | 2.37E+00 | 2.38E+00 | 1.63E+00 | 3.26E+00 | **1E+00** | 6E-01 | 3E-01 | 2E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-02 | 0.00E+00 | 1.16E-04 | 9.19E-02 | 1.34E-01 | 2.26E-01 | 2.26E-01 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.66E-01 | 0.00E+00 | 4.62E-03 | 1.64E+00 | 4.15E-01 | 2.05E+00 | 2.06E+00 | 3.44E-01 | 7.00E-01 | **5E+00** | **2E+00** | **1E+00** | 6E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.41E-02 | 0.00E+00 | 4.23E-05 | 2.70E-01 | 3.26E-01 | 5.96E-01 | 5.96E-01 | 4.33E-02 | 1.30E-01 | **6E+00** | **2E+00** | **8E+00** | **3E+00** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 2.61E-01 | 0.00E+00 | 5.90E-03 | 4.66E-03 | 8.93E-06 | 1.72E-01 | 2.66E-01 | 4.38E-01 | 4.38E-01 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | 6E-01 | 2E-01 |
| | **Barium** | 0.00E+00 | 7.44E-02 | 0.00E+00 | 6.51E-01 | 1.23E-01 | 6.90E-03 | 2.74E+00 | 1.97E-01 | 2.94E+00 | 2.95E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 7E-02 | 9E-03 | 5E-03 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 8.57E-02 | 6.21E-02 | 1.03E-03 | 4.77E-01 | 1.56E-01 | 6.33E-01 | 6.34E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 6E-02 | 6E-02 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 6.21E-02 | 1.78E-02 | 6.95E-04 | 1.15E+00 | 2.53E-01 | 1.40E+00 | 1.41E+00 | 7.61E+00 | 7.80E+00 | 2E-01 | 1E-01 | 3E-02 | 3E-02 |
| | **Lead** | 0.00E+00 | 8.53E-03 | 0.00E+00 | 1.39E-01 | 4.20E-02 | 3.84E-03 | 3.47E-01 | 5.06E-02 | 3.97E-01 | 4.01E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 1E-01 | 3E-02 | 2E-02 |
| | **Mercury** | 0.00E+00 | 1.12E-02 | 0.00E+00 | 3.43E-03 | 3.72E-03 | 2.45E-05 | 1.07E-02 | 1.49E-02 | 2.56E-02 | 2.56E-02 | 2.27E-02 | 6.80E-02 | 5E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.29E-01 | 3.47E-02 | 9.75E-04 | 5.65E-01 | 1.29E-01 | 6.94E-01 | 6.95E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 4E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 2.61E-01 | 0.00E+00 | 5.90E-03 | 4.66E-03 | 8.93E-06 | 1.72E-01 | 2.66E-01 | 4.38E-01 | 4.38E-01 | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **6E+00** | **2E+00** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.34E-02 | 1.79E-03 | 3.26E-03 | 0.00E+00 | 1.30E-05 | 4.58E-02 | 3.08E-02 | 7.66E-02 | 7.66E-02 | 2.30E-01 | 6.80E-01 | 2E-01 | 7E-02 | 1E-01 | 5E-02 |
| | **Barium** | 0.00E+00 | 3.83E-03 | 2.54E-02 | 3.59E-01 | 0.00E+00 | 1.00E-02 | 2.51E+00 | 5.67E-01 | 3.07E+00 | 3.08E+00 | 5.18E+01 | 1.21E+02 | 5E-02 | 2E-02 | 1E-02 | 5E-03 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 1.21E-02 | 4.73E-02 | 0.00E+00 | 1.49E-03 | 1.87E-01 | 2.20E-02 | 2.09E-01 | 2.11E-01 | 2.40E+00 | 2.82E+00 | 8E-02 | 7E-02 | 9E-03 | 8E-03 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 1.22E-03 | 3.43E-02 | 0.00E+00 | 1.01E-03 | 1.78E-01 | 8.32E-02 | 2.61E-01 | 2.62E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 2E-02 | 1E-02 | 8E-03 |
| | **Lead** | 0.00E+00 | 4.39E-04 | 2.91E-03 | 7.68E-02 | 0.00E+00 | 5.59E-03 | 1.91E-01 | 7.65E-03 | 1.99E-01 | 2.04E-01 | 4.70E+00 | 8.90E+00 | 4E-02 | 2E-02 | 2E-03 | 9E-04 |
| | **Mercury** | 0.00E+00 | 5.76E-04 | 4.20E-04 | 1.89E-03 | 0.00E+00 | 3.57E-05 | 1.16E-02 | 1.89E-03 | 1.34E-02 | 1.35E-02 | 7.50E-02 | 1.50E-01 | 2E-01 | 8E-02 | 3E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 1.10E-03 | 7.14E-02 | 0.00E+00 | 1.42E-03 | 1.78E-01 | 1.11E-02 | 1.90E-01 | 1.91E-01 | 4.16E+00 | 8.31E+00 | 4E-02 | 2E-02 | 3E-03 | 1E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 3.20E-02 | 2.85E-03 | 4.95E-03 | 3.91E-03 | 2.35E-05 | 4.54E-01 | 3.88E-02 | 4.93E-01 | 4.93E-01 | 2.30E-01 | 6.80E-01 | **2E+00** | 7E-01 | 2E-01 | 6E-02 |
| | **Barium** | 0.00E+00 | 9.13E-03 | 4.04E-02 | 5.46E-01 | 1.03E-01 | 1.82E-02 | 1.23E+01 | 1.53E-01 | 1.24E+01 | 1.24E+01 | 5.18E+01 | 1.21E+02 | 2E-01 | 1E-01 | 3E-03 | 1E-03 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 1.92E-02 | 7.19E-02 | 5.22E-02 | 2.70E-03 | 1.60E+00 | 8.29E-02 | 1.68E+00 | 1.68E+00 | 2.40E+00 | 2.82E+00 | 7E-01 | 6E-01 | 3E-02 | 3E-02 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 1.94E-03 | 5.22E-02 | 1.50E-02 | 1.83E-03 | 1.45E+00 | 4.57E-02 | 1.50E+00 | 1.50E+00 | 7.33E+00 | 1.00E+01 | 2E-01 | 1E-01 | 6E-03 | 5E-03 |
| | **Lead** | 0.00E+00 | 1.05E-03 | 4.62E-03 | 1.17E-01 | 3.53E-02 | 1.01E-02 | 1.65E+00 | 4.09E-02 | 1.69E+00 | 1.70E+00 | 4.70E+00 | 8.90E+00 | 4E-01 | 2E-01 | 9E-03 | 5E-03 |
| | **Mercury** | 0.00E+00 | 1.37E-03 | 6.67E-04 | 2.88E-03 | 3.13E-03 | 6.45E-05 | 1.30E-01 | 5.17E-03 | 1.35E-01 | 1.35E-01 | 7.50E-02 | 1.50E-01 | **2E+00** | 9E-01 | 7E-02 | 3E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 1.75E-03 | 1.09E-01 | 2.91E-02 | 2.57E-03 | 1.48E+00 | 4.24E-02 | 1.53E+00 | 1.53E+00 | 4.16E+00 | 8.31E+00 | 4E-01 | 2E-01 | 1E-02 | 5E-03 |

**Table E3-145**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Mercury** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Hawk - mid** | **tPCB-med** | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Barium** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| **Raccoon - 1** | **tPCB** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Barium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Chromium** | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Cobalt** | 4E-02 | 3E-02 | 4E-02 | 3E-02 |
| | **Lead** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Vanadium** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 2E-01 | 2E-01 |
| | **Lead** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-146**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C8, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 2** | **tPCB-mink** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Raccoon - 1** | **tPCB** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| **Raccoon - 2** | **tPCB** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |

**Table E3-146**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C8, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| Spotted Sandpiper - 1 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| Spotted Sandpiper - 1 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| GBH - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| GBH - high | tPCB-high | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| Mink - 1 | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 2 | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| Raccoon - 2 | tPCB | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Barium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Chromium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Cobalt | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Lead | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Mercury | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Vanadium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table E3-146**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C8, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| **GBH - mid** | **tPCB-med** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **GBH - high** | **tPCB-high** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| **Mink - 1** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Mink - 2** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 1** | **tPCB** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 2** | **tPCB** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |

**Table E3-146**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C8, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | |
|---|---|---|---|---|---|
| | | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **GBH - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **GBH - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **Mink - 1** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Mink - 2** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 1** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 2** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |

**Table E3-146**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C8, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| **GBH - mid** | **tPCB-med** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **GBH - high** | **tPCB-high** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| **Mink - 1** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Mink - 2** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Raccoon - 1** | **tPCB** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Raccoon - 2** | **tPCB** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |

**Table E3-146**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C8, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 2.18E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.23E-02 | 8.97E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.19E+00 | 1.04E+01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 1.94E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.32E-01 | 1.04E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 6.53E-01 | 1.79E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.64E-02 | 6.01E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.96E-01 | 1.58E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 2.18E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.23E-02 | 8.97E-01 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 2.18E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 2.18E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.96E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.90E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.23E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.24E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 2.18E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 2.70E-02 | 0.00E+00 | 1.03E-03 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.46E+00 | 0.00E+00 | 3.13E-01 | 0.00E+00 | 1.50E-02 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.51E-02 | 0.00E+00 | 5.83E-02 | 0.00E+00 | 1.98E-02 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 9.13E-03 | 0.00E+00 | 3.13E-02 | 0.00E+00 | 4.95E-02 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.13E-03 | 0.00E+00 | 5.40E-02 | 0.00E+00 | 6.73E-04 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 1.81E-02 | 0.00E+00 | 8.12E-04 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.37E-03 | 0.00E+00 | 4.76E-02 | 0.00E+00 | 6.23E-04 |
| **Raccoon - 2** | **tPCB** | 2.18E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.20E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.81E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.75E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.13E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.98E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.14E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-146**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C8, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.62E-02 | 1.63E-02 | 2.66E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E+00 | 4.31E-01 | 2.06E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.80E-01 | 2.18E-01 | 3.06E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.18E-01 | 6.25E-02 | 2.07E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.88E-01 | 1.47E-01 | 1.14E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.45E-02 | 1.31E-02 | 7.31E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.53E-01 | 1.22E-01 | 2.91E-03 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.62E-02 | 1.63E-02 | 2.66E-05 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 5.69E-03 | 0.00E+00 | 0.00E+00 | 1.05E-03 | 3.78E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-02 | 0.00E+00 | 3.59E-03 | 7.05E-06 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 5.28E-02 | 0.00E+00 | 0.00E+00 | 2.69E-01 | 1.32E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.23E-01 | 0.00E+00 | 9.47E-02 | 5.45E-03 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.25E-02 | 0.00E+00 | 0.00E+00 | 1.83E-03 | 3.93E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-01 | 0.00E+00 | 4.79E-02 | 8.10E-04 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 4.79E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E-02 | 0.00E+00 | 1.37E-02 | 5.49E-04 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 5.24E-03 | 0.00E+00 | 0.00E+00 | 2.10E-03 | 3.90E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.55E-02 | 0.00E+00 | 3.24E-02 | 3.03E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.13E-03 | 0.00E+00 | 0.00E+00 | 3.16E-04 | 7.48E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.67E-03 | 0.00E+00 | 2.87E-03 | 1.94E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 2.51E-03 | 6.13E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.66E-03 | 0.00E+00 | 2.68E-02 | 7.70E-04 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 5.69E-03 | 0.00E+00 | 0.00E+00 | 1.05E-03 | 3.78E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-02 | 0.00E+00 | 3.59E-03 | 7.05E-06 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 7.03E-02 | 0.00E+00 | 0.00E+00 | 2.65E-03 | 0.00E+00 | 0.00E+00 | 2.05E-01 | 0.00E+00 | 2.87E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 7.03E-02 | 0.00E+00 | 0.00E+00 | 2.65E-03 | 0.00E+00 | 0.00E+00 | 2.05E-01 | 0.00E+00 | 2.87E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 6.53E-01 | 0.00E+00 | 0.00E+00 | 6.80E-01 | 0.00E+00 | 0.00E+00 | 2.62E-01 | 0.00E+00 | 4.06E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.54E-01 | 0.00E+00 | 0.00E+00 | 4.64E-03 | 0.00E+00 | 0.00E+00 | 8.36E-02 | 0.00E+00 | 1.93E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 1.96E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 6.47E-02 | 0.00E+00 | 0.00E+00 | 5.30E-03 | 0.00E+00 | 0.00E+00 | 2.08E-03 | 0.00E+00 | 4.65E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.40E-02 | 0.00E+00 | 0.00E+00 | 7.98E-04 | 0.00E+00 | 0.00E+00 | 3.88E-03 | 0.00E+00 | 6.71E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 6.34E-03 | 0.00E+00 | 0.00E+00 | 1.27E-02 | 0.00E+00 | 1.76E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 9.59E-03 | 0.00E+00 | 0.00E+00 | 1.18E-03 | 0.00E+00 | 0.00E+00 | 8.38E-01 | 0.00E+00 | 3.31E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 9.59E-03 | 0.00E+00 | 0.00E+00 | 1.18E-03 | 0.00E+00 | 0.00E+00 | 8.38E-01 | 0.00E+00 | 3.31E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 8.91E-02 | 0.00E+00 | 0.00E+00 | 3.02E-01 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 4.69E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.10E-02 | 0.00E+00 | 0.00E+00 | 2.06E-03 | 0.00E+00 | 0.00E+00 | 3.43E-01 | 0.00E+00 | 2.23E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.26E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 8.83E-03 | 0.00E+00 | 0.00E+00 | 2.36E-03 | 0.00E+00 | 0.00E+00 | 8.52E-03 | 0.00E+00 | 5.37E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.91E-03 | 0.00E+00 | 0.00E+00 | 3.55E-04 | 0.00E+00 | 0.00E+00 | 1.59E-02 | 0.00E+00 | 7.74E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 2.82E-03 | 0.00E+00 | 0.00E+00 | 5.19E-02 | 0.00E+00 | 2.04E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| **Raccoon - 1** | **tPCB** | 2.70E-02 | 0.00E+00 | 4.59E-03 | 0.00E+00 | 0.00E+00 | 2.08E-03 | 1.35E-02 | 0.00E+00 | 0.00E+00 | 1.34E-02 | 1.79E-03 | 5.70E-03 | 0.00E+00 | 1.30E-05 |
| | **Barium** | 3.13E-01 | 0.00E+00 | 4.27E-02 | 0.00E+00 | 0.00E+00 | 5.33E-01 | 4.69E-03 | 0.00E+00 | 0.00E+00 | 3.83E-03 | 2.54E-02 | 3.59E-01 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | 5.83E-02 | 0.00E+00 | 1.01E-02 | 0.00E+00 | 0.00E+00 | 3.63E-03 | 1.40E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.21E-02 | 5.98E-02 | 0.00E+00 | 1.49E-03 |
| | **Cobalt** | 3.13E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 1.71E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.22E-03 | 3.43E-02 | 0.00E+00 | 1.01E-03 |
| | **Lead** | 5.40E-02 | 0.00E+00 | 4.23E-03 | 0.00E+00 | 0.00E+00 | 4.15E-03 | 1.39E-04 | 0.00E+00 | 0.00E+00 | 4.39E-04 | 2.91E-03 | 7.68E-02 | 0.00E+00 | 5.59E-03 |
| | **Mercury** | 1.81E-02 | 0.00E+00 | 9.16E-04 | 0.00E+00 | 0.00E+00 | 6.25E-04 | 2.67E-04 | 0.00E+00 | 0.00E+00 | 5.76E-04 | 4.20E-04 | 1.17E-02 | 0.00E+00 | 3.57E-05 |
| | **Vanadium** | 4.76E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.97E-03 | 2.19E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.10E-03 | 7.14E-02 | 0.00E+00 | 1.42E-03 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.65E-02 | 4.52E-02 | 2.58E-02 | 2.08E-03 | 1.41E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.17E-03 | 0.00E+00 | 2.57E-03 | 1.30E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.53E-01 | 1.98E-02 | 7.49E-02 | 5.33E-01 | 4.90E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 6.78E-02 | 1.00E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 3.61E-02 | 3.86E-03 | 6.02E-02 | 3.63E-03 | 1.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.84E-02 | 0.00E+00 | 3.43E-02 | 1.49E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 7.96E-02 | 3.91E-03 | 2.30E-02 | 6.97E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.90E-03 | 0.00E+00 | 9.83E-03 | 1.01E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.52E-02 | 5.90E-03 | 3.34E-02 | 4.15E-03 | 1.45E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-02 | 0.00E+00 | 2.32E-02 | 5.59E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 3.28E-03 | 6.56E-04 | 2.35E-03 | 6.25E-04 | 2.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-03 | 0.00E+00 | 2.06E-03 | 3.57E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 3.19E-02 | 2.67E-03 | 1.47E-02 | 4.97E-03 | 2.29E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.42E-03 | 0.00E+00 | 1.92E-02 | 1.42E-03 |

**Table E3-146**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C8, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 9.33E-01 | 6.87E-02 | 1.00E+00 | 1.00E+00 | 4.67E-01 | 1.40E+00 | **2E+00** | 7E-01 | 1E-01 | 5E-02 | **2E+00** | 7E-01 | **2E+00** |
| | **Barium** | 1.27E+01 | 2.62E+00 | 1.53E+01 | 1.53E+01 | 2.08E+01 | 4.17E+01 | 6E-01 | 3E-01 | 1E-01 | 6E-02 | 7E-01 | 4E-01 | 7E-01 |
| | **Chromium** | 2.32E+00 | 6.45E-01 | 2.96E+00 | 2.96E+00 | 2.66E+00 | 2.80E+00 | 9E-01 | 8E-01 | 2E-01 | 2E-01 | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 1.26E+00 | 4.95E-01 | 1.75E+00 | 1.75E+00 | 7.61E+00 | 7.80E+00 | 2E-01 | 2E-01 | 7E-02 | 6E-02 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 2.28E+00 | 8.00E-01 | 3.08E+00 | 3.09E+00 | 1.63E+00 | 3.26E+00 | **1E+00** | 7E-01 | 5E-01 | 2E-01 | **2E+00** | 9E-01 | **2E+00** |
| | **Mercury** | 6.75E-01 | 3.95E-02 | 7.15E-01 | 7.15E-01 | 2.27E-02 | 6.80E-02 | **3E+01** | **1E+01** | **2E+00** | 6E-01 | **3E+01** | **1E+01** | **3E+01** |
| | **Vanadium** | 2.03E+00 | 4.17E-01 | 2.45E+00 | 2.45E+00 | 3.44E-01 | 7.00E-01 | **6E+00** | **3E+00** | **1E+00** | 6E-01 | **7E+00** | **4E+00** | **7E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 9.33E-01 | 6.87E-02 | 1.00E+00 | 1.00E+00 | 4.33E-02 | 1.30E-01 | **2E+01** | **7E+00** | **2E+00** | 5E-01 | **2E+01** | **8E+00** | **2E+01** |
| **GBH - mid** | **tPCB-med** | 5.69E-03 | 3.80E+00 | 3.81E+00 | 3.81E+00 | 4.67E-01 | 1.40E+00 | 1E-02 | 4E-03 | **8E+00** | **3E+00** | **8E+00** | **3E+00** | **8E+00** |
| | **Barium** | 5.28E-02 | 1.90E+00 | 1.95E+00 | 1.96E+00 | 2.08E+01 | 4.17E+01 | 3E-03 | 1E-03 | 9E-02 | 5E-02 | 9E-02 | 5E-02 | 9E-02 |
| | **Chromium** | 1.25E-02 | 5.49E-01 | 5.61E-01 | 5.62E-01 | 2.66E+00 | 2.80E+00 | 5E-03 | 4E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 2.75E-02 | 1.08E-01 | 1.35E-01 | 1.36E-01 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 1E-02 | 1E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 5.24E-03 | 9.90E-02 | 1.04E-01 | 1.07E-01 | 1.63E+00 | 3.26E+00 | 3E-03 | 2E-03 | 6E-02 | 3E-02 | 6E-02 | 3E-02 | 7E-02 |
| | **Mercury** | 1.13E-03 | 8.16E-02 | 8.28E-02 | 8.28E-02 | 2.27E-02 | 6.80E-02 | 5E-02 | 2E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** | **4E+00** |
| | **Vanadium** | 1.10E-02 | 1.00E-01 | 1.11E-01 | 1.12E-01 | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 3E-01 | 1E-01 | 3E-01 | 2E-01 | 3E-01 |
| **GBH - high** | **tPCB-high** | 5.69E-03 | 3.80E+00 | 3.81E+00 | 3.81E+00 | 4.33E-02 | 1.30E-01 | 1E-01 | 4E-02 | **9E+01** | **3E+01** | **9E+01** | **3E+01** | **9E+01** |
| **Mink - 1** | **tPCB-mink** | 7.03E-02 | 2.36E-01 | 3.06E-01 | 3.06E-01 | 5.00E-02 | 1.00E-01 | **1E+00** | 7E-01 | **5E+00** | **2E+00** | **6E+00** | **3E+00** | **6E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 7.03E-02 | 2.36E-01 | 3.06E-01 | 3.06E-01 | na | 5.00E-02 | **--** | **1E+00** | **--** | **5E+00** | **--** | **6E+00** | **--** |
| | **Barium** | 6.53E-01 | 1.35E+00 | 2.00E+00 | 2.01E+00 | 5.18E+01 | 1.21E+02 | 1E-02 | 5E-03 | 3E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 |
| | **Chromium** | 1.54E-01 | 2.82E-01 | 4.36E-01 | 4.38E-01 | 2.40E+00 | 2.82E+00 | 6E-02 | 5E-02 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 3.40E-01 | 3.09E-01 | 6.49E-01 | 6.50E-01 | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 | 6E-02 | 9E-02 |
| | **Lead** | 6.47E-02 | 5.39E-02 | 1.19E-01 | 1.25E-01 | 4.70E+00 | 8.90E+00 | 1E-02 | 7E-03 | 1E-02 | 6E-03 | 3E-02 | 1E-02 | 3E-02 |
| | **Mercury** | 1.40E-02 | 1.14E-02 | 2.54E-02 | 2.55E-02 | 7.50E-02 | 1.50E-01 | 2E-01 | 9E-02 | 2E-01 | 8E-02 | 3E-01 | 2E-01 | 3E-01 |
| | **Vanadium** | 1.36E-01 | 3.67E-02 | 1.73E-01 | 1.74E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 4E-03 | 4E-02 | 2E-02 | 4E-02 |
| **Mink - 2** | **tPCB-mink** | 9.59E-03 | 8.43E-01 | 8.52E-01 | 8.52E-01 | 5.00E-02 | 1.00E-01 | 2E-01 | 1E-01 | **2E+01** | **8E+00** | **2E+01** | **9E+00** | **2E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 9.59E-03 | 8.43E-01 | 8.52E-01 | 8.52E-01 | na | 5.00E-02 | **--** | 2E-01 | **--** | **2E+01** | **--** | **2E+01** | **--** |
| | **Barium** | 8.91E-02 | 1.44E+00 | 1.53E+00 | 1.54E+00 | 5.18E+01 | 1.21E+02 | 2E-03 | 7E-04 | 3E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 |
| | **Chromium** | 2.10E-02 | 3.69E-01 | 3.90E-01 | 3.92E-01 | 2.40E+00 | 2.82E+00 | 9E-03 | 7E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 |
| | **Cobalt** | 4.64E-02 | 8.80E-01 | 9.27E-01 | 9.28E-01 | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 |
| | **Lead** | 8.83E-03 | 1.86E-02 | 2.74E-02 | 3.41E-02 | 4.70E+00 | 8.90E+00 | 2E-03 | 1E-03 | 4E-03 | 2E-03 | 6E-03 | 3E-03 | 7E-03 |
| | **Mercury** | 1.91E-03 | 1.71E-02 | 1.90E-02 | 1.90E-02 | 7.50E-02 | 1.50E-01 | 3E-02 | 1E-02 | 2E-01 | 1E-01 | 3E-01 | 1E-01 | 3E-01 |
| | **Vanadium** | 1.85E-02 | 5.80E-02 | 7.65E-02 | 7.82E-02 | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 | 9E-03 | 2E-02 |
| **Raccoon - 1** | **tPCB** | 8.89E-02 | 3.08E-02 | 1.20E-01 | 1.20E-01 | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 1E-01 | 5E-02 | 5E-01 | 2E-01 | 5E-01 |
| | **Barium** | 2.51E+00 | 5.67E-01 | 3.07E+00 | 3.08E+00 | 5.18E+01 | 1.21E+02 | 5E-02 | 2E-02 | 1E-02 | 5E-03 | 6E-02 | 3E-02 | 6E-02 |
| | **Chromium** | 2.31E-01 | 2.20E-02 | 2.53E-01 | 2.55E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 8E-02 | 9E-03 | 8E-03 | 1E-01 | 9E-02 | 1E-01 |
| | **Cobalt** | 1.78E-01 | 8.32E-02 | 2.61E-01 | 2.62E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 2E-02 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 4E-02 |
| | **Lead** | 1.91E-01 | 7.65E-03 | 1.99E-01 | 2.04E-01 | 4.70E+00 | 8.90E+00 | 4E-02 | 2E-02 | 2E-03 | 9E-04 | 4E-02 | 2E-02 | 4E-02 |
| | **Mercury** | 5.24E-02 | 1.89E-03 | 5.43E-02 | 5.43E-02 | 7.50E-02 | 1.50E-01 | 7E-01 | 3E-01 | 3E-02 | 1E-02 | 7E-01 | 4E-01 | 7E-01 |
| | **Vanadium** | 1.78E-01 | 1.11E-02 | 1.90E-01 | 1.91E-01 | 4.16E+00 | 8.31E+00 | 4E-02 | 2E-02 | 3E-03 | 1E-03 | 5E-02 | 2E-02 | 5E-02 |
| **Raccoon - 2** | **tPCB** | 1.65E-02 | 2.25E-01 | 2.42E-01 | 2.42E-01 | 2.30E-01 | 6.80E-01 | 7E-02 | 2E-02 | 1E+00 | 3E-01 | **1E+00** | 4E-01 | **1E+00** |
| | **Barium** | 1.53E-01 | 1.03E+00 | 1.18E+00 | 1.19E+00 | 5.18E+01 | 1.21E+02 | 3E-03 | 1E-03 | 2E-02 | 8E-03 | 2E-02 | 1E-02 | 2E-02 |
| | **Chromium** | 3.61E-02 | 1.83E-01 | 2.19E-01 | 2.20E-01 | 2.40E+00 | 2.82E+00 | 2E-02 | 1E-02 | 8E-02 | 6E-02 | 9E-02 | 8E-02 | 9E-02 |
| | **Cobalt** | 7.96E-02 | 2.71E-01 | 3.51E-01 | 3.52E-01 | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 5E-02 | 4E-02 | 5E-02 |
| | **Lead** | 1.52E-02 | 1.01E-01 | 1.16E-01 | 1.22E-01 | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 3E-02 |
| | **Mercury** | 3.28E-03 | 1.05E-02 | 1.37E-02 | 1.38E-02 | 7.50E-02 | 1.50E-01 | 4E-02 | 2E-02 | 1E-01 | 7E-02 | 2E-01 | 9E-02 | 2E-01 |
| | **Vanadium** | 3.19E-02 | 5.96E-02 | 9.15E-02 | 9.29E-02 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 1E-02 | 7E-03 | 2E-02 | 1E-02 | 2E-02 |

**Table E3-146**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C8, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients |
|---|---|---|
| | | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 7E-01 |
| | **Barium** | 4E-01 |
| | **Chromium** | **1E+00** |
| | **Cobalt** | 2E-01 |
| | **Lead** | 9E-01 |
| | **Mercury** | **1E+01** |
| | **Vanadium** | **4E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **8E+00** |
| **GBH - mid** | **tPCB-med** | **3E+00** |
| | **Barium** | 5E-02 |
| | **Chromium** | 2E-01 |
| | **Cobalt** | 2E-02 |
| | **Lead** | 3E-02 |
| | **Mercury** | **1E+00** |
| | **Vanadium** | 2E-01 |
| **GBH - high** | **tPCB-high** | **3E+01** |
| **Mink - 1** | **tPCB-mink** | **3E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **6E+00** |
| | **Barium** | 2E-02 |
| | **Chromium** | 2E-01 |
| | **Cobalt** | 7E-02 |
| | **Lead** | 1E-02 |
| | **Mercury** | 2E-01 |
| | **Vanadium** | 2E-02 |
| **Mink - 2** | **tPCB-mink** | **9E+00** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2E+01** |
| | **Barium** | 1E-02 |
| | **Chromium** | 1E-01 |
| | **Cobalt** | 9E-02 |
| | **Lead** | 4E-03 |
| | **Mercury** | 1E-01 |
| | **Vanadium** | 9E-03 |
| **Raccoon - 1** | **tPCB** | 2E-01 |
| | **Barium** | 3E-02 |
| | **Chromium** | 9E-02 |
| | **Cobalt** | 3E-02 |
| | **Lead** | 2E-02 |
| | **Mercury** | 4E-01 |
| | **Vanadium** | 2E-02 |
| **Raccoon - 2** | **tPCB** | 4E-01 |
| | **Barium** | 1E-02 |
| | **Chromium** | 8E-02 |
| | **Cobalt** | 4E-02 |
| | **Lead** | 1E-02 |
| | **Mercury** | 9E-02 |
| | **Vanadium** | 1E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-147**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C8**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-147**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C8**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians |
| **Tree Swallow - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Tree Swallow - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 1 - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 2 - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Osprey - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Osprey - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Bat** | **tPCB** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Otter** | **tPCB-mink** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |

**Table E3-147**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C8**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Body Weight | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water |
| **Tree Swallow - mid** | **tPCB-med** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 2.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| | **Barium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 2.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 |
| | **Chromium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 |
| | **Cobalt** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 6.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 |
| | **Lead** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 |
| | **Mercury** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 4.94E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 |
| | **Vanadium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 |
| **Tree Swallow - high** | **tPCB-high** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 2.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-02 | 2.66E-05 |
| | **Barium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.62E-01 | 2.06E-02 |
| | **Chromium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 3.06E-03 |
| | **Cobalt** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-01 | 2.07E-03 |
| | **Lead** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-01 | 1.14E-02 |
| | **Mercury** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 4.24E-02 | 0.00E+00 | 4.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E-02 | 7.31E-05 |
| | **Vanadium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.44E-01 | 2.91E-03 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-02 | 2.66E-05 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.28E+00 | 0.00E+00 | 0.00E+00 | 3.22E-03 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E+00 | 0.00E+00 | 0.00E+00 | 8.48E-02 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 0.00E+00 | 0.00E+00 | 4.29E-02 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 2.57E-03 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 2.40E-02 | 1.88E-03 |
| **Kingfisher - 1 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.28E+00 | 0.00E+00 | 0.00E+00 | 3.22E-03 | 1.72E-05 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.01E+00 | 0.00E+00 | 0.00E+00 | 4.28E-02 | 3.22E-03 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E+00 | 0.00E+00 | 0.00E+00 | 3.95E+00 | 0.00E+00 | 3.47E-01 | 8.48E-02 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.33E+00 | 0.00E+00 | 1.42E-01 | 4.29E-02 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.23E-02 | 1.23E-02 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-02 | 0.00E+00 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 3.25E-02 | 2.90E-02 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.01E-03 | 0.00E+00 | 0.00E+00 | 7.74E-02 | 0.00E+00 | 4.41E-03 | 2.57E-03 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 1.28E-02 | 2.40E-02 | 1.88E-03 |
| **Kingfisher - 2 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.13E-02 | 0.00E+00 | 0.00E+00 | 4.01E+00 | 0.00E+00 | 4.28E-02 | 3.22E-03 | 1.72E-05 |
| **Osprey - mid** | **tPCB-med** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| | **Barium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 |
| | **Chromium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 |
| | **Cobalt** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 |
| | **Lead** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 |
| | **Mercury** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.56E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 |
| | **Vanadium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 |
| **Osprey - high** | **tPCB-high** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| **Bat** | **tPCB** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 |
| | **Barium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 |
| | **Chromium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 |
| | **Cobalt** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 5.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 |
| | **Lead** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 |
| | **Mercury** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 3.65E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 |
| | **Vanadium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 |
| **Otter** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.84E-01 | 7.81E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.84E-01 | 7.81E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| | **Barium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 1.17E-01 | 3.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 |
| | **Chromium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-02 | 1.46E-02 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 |
| | **Cobalt** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E-03 | 3.49E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 |
| | **Lead** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.15E-03 | 1.64E-03 | 2.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 |
| | **Mercury** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-02 | 1.80E-02 | 6.76E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 |
| | **Vanadium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-02 | 1.14E-03 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 |

**Table E3-147**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C8**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 2.66E-01 | 2.66E-01 | 4.67E-01 | 1.40E+00 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 2.72E+00 | 2.75E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 3.21E+00 | 3.21E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 6.82E-02 | 7.07E-02 | 7.61E+00 | 7.80E+00 | 9E-03 | 9E-03 | 9E-03 | 9E-03 |
| | **Lead** | 1.62E-01 | 1.76E-01 | 1.63E+00 | 3.26E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | 4.94E-02 | 4.95E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Vanadium** | 1.40E-01 | 1.44E-01 | 3.44E-01 | 7.00E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.66E-01 | 2.66E-01 | 4.33E-02 | 1.30E-01 | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.27E-01 | 2.27E-01 | 4.67E-01 | 1.40E+00 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Barium** | 1.15E+01 | 1.16E+01 | 2.08E+01 | 4.17E+01 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Chromium** | 1.12E+00 | 1.13E+00 | 2.66E+00 | 2.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 9.16E-01 | 9.18E-01 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1.36E+00 | 1.37E+00 | 1.63E+00 | 3.26E+00 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Mercury** | 1.11E-01 | 1.11E-01 | 2.27E-02 | 6.80E-02 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | 6.99E-01 | 7.02E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.27E-01 | 2.27E-01 | 4.33E-02 | 1.30E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | 5.28E+00 | 5.28E+00 | 4.67E-01 | 1.40E+00 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 5.28E+00 | 5.29E+00 | 2.08E+01 | 4.17E+01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 1.79E+00 | 1.80E+00 | 2.66E+00 | 2.80E+00 | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Cobalt** | 3.05E+00 | 3.06E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 3.55E-01 | 3.62E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | 1.04E-01 | 1.04E-01 | 2.27E-02 | 6.80E-02 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | 2.11E-01 | 2.13E-01 | 3.44E-01 | 7.00E-01 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 5.28E+00 | 5.28E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | 4.09E+00 | 4.09E+00 | 4.67E-01 | 1.40E+00 | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Barium** | 1.03E+01 | 1.04E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 1.56E+00 | 1.56E+00 | 2.66E+00 | 2.80E+00 | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 2.94E+00 | 2.94E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 4.08E-01 | 4.15E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 9.14E-02 | 9.14E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 2.21E-01 | 2.22E-01 | 3.44E-01 | 7.00E-01 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 4.09E+00 | 4.09E+00 | 4.33E-02 | 1.30E-01 | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Osprey - mid** | **tPCB-med** | 3.73E+00 | 3.73E+00 | 4.67E-01 | 1.40E+00 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 1.04E+00 | 1.05E+00 | 2.08E+01 | 4.17E+01 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Chromium** | 3.22E-01 | 3.23E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 3.21E-02 | 3.28E-02 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 4E-03 | 4E-03 |
| | **Lead** | 3.86E-02 | 4.21E-02 | 1.63E+00 | 3.26E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.56E-02 | 7.56E-02 | 2.27E-02 | 6.80E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 8.39E-02 | 8.48E-02 | 3.44E-01 | 7.00E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | 3.73E+00 | 3.73E+00 | 4.33E-02 | 1.30E-01 | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Bat** | **tPCB** | 1.96E-01 | 1.96E-01 | 2.30E-01 | 6.80E-01 | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Barium** | 2.01E+00 | 2.03E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.37E+00 | 2.37E+00 | 2.40E+00 | 2.82E+00 | 1E+00 | 8E-01 | 1E+00 | 8E-01 |
| | **Cobalt** | 5.03E-02 | 5.23E-02 | 7.33E+00 | 1.00E+01 | 7E-03 | 5E-03 | 7E-03 | 5E-03 |
| | **Lead** | 1.20E-01 | 1.30E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 3.65E-02 | 3.66E-02 | 7.50E-02 | 1.50E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | 1.03E-01 | 1.06E-01 | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | 2.02E+00 | 2.02E+00 | 5.00E-02 | 1.00E-01 | **4E+01** | **2E+01** | **4E+01** | **2E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.02E+00 | 2.02E+00 | na | 5.00E-02 | **--** | **4E+01** | **--** | **4E+01** |
| | **Barium** | 7.09E-01 | 7.19E-01 | 5.18E+01 | 1.21E+02 | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 2.07E-01 | 2.08E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Cobalt** | 2.13E-01 | 2.14E-01 | 7.33E+00 | 1.00E+01 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 3.24E-02 | 3.79E-02 | 4.70E+00 | 8.90E+00 | 7E-03 | 4E-03 | 8E-03 | 4E-03 |
| | **Mercury** | 4.27E-02 | 4.27E-02 | 7.50E-02 | 1.50E-01 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 3.34E-02 | 3.48E-02 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 8E-03 | 4E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-148**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **1.91E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.95E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **1.91E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Blue Jay - mid** | **tPCB-med** | **1.91E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.95E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **1.91E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.91E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.95E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.91E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Shrew - 1** | **tPCB** | **1.91E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.95E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **1.91E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.95E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **1.91E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.95E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **1.91E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.95E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **1.91E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **4.65E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **2.37E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **2.95E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.28E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-148**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.76E-02 | 1.88E-05 | 9.93E-02 | 9.93E-02 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.13E-02 | 5.16E-05 | 9.97E-02 | 9.98E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.65E-01 | 2.16E-03 | 8.04E-01 | 8.06E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.79E-01 | 8.08E-03 | 5.94E-01 | 6.02E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.48E-01 | 2.05E-03 | 4.65E-01 | 4.67E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.76E-02 | 1.88E-05 | 9.93E-02 | 9.93E-02 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 8.79E-02 | 0.00E+00 | 4.10E-02 | 2.04E-05 | 1.83E-01 | 1.83E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 1.06E-03 | 0.00E+00 | 4.01E-02 | 0.00E+00 | 9.96E-02 | 5.59E-05 | 1.48E-01 | 1.48E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 5.07E-01 | 2.34E-03 | 1.24E+00 | 1.25E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 6.32E-01 | 8.75E-03 | 2.59E+00 | 2.60E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 4.88E-01 | 2.22E-03 | 6.65E-01 | 6.67E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 8.79E-02 | 0.00E+00 | 4.10E-02 | 2.04E-05 | 1.83E-01 | 1.83E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.91E-01 | 3.95E-01 | 0.00E+00 | 6.53E-02 | 4.23E-05 | 6.71E-01 | 6.71E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 6.92E-03 | 8.72E-02 | 1.80E-01 | 0.00E+00 | 1.59E-01 | 1.16E-04 | 4.34E-01 | 4.34E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 8.09E-01 | 4.86E-03 | 3.85E+00 | 3.85E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 1.01E+00 | 1.82E-02 | 1.40E+01 | 1.40E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 7.78E-01 | 4.62E-03 | 1.86E+00 | 1.86E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.91E-01 | 3.95E-01 | 0.00E+00 | 6.53E-02 | 4.23E-05 | 6.71E-01 | 6.71E-01 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.70E-03 | 3.13E-03 | 2.47E-01 | 1.70E-01 | 0.00E+00 | 7.34E-03 | 2.35E-05 | 4.35E-01 | 4.35E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 2.06E-03 | 1.13E-01 | 7.77E-02 | 0.00E+00 | 1.78E-02 | 6.45E-05 | 2.11E-01 | 2.11E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 9.09E-02 | 2.70E-03 | 1.92E+00 | 1.92E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 1.13E-01 | 1.01E-02 | 9.37E+00 | 9.38E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 8.74E-02 | 2.57E-03 | 8.48E-01 | 8.50E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.40E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.61E-04 | 1.03E-05 | 6.96E-03 | 6.97E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-03 | 2.84E-05 | 2.24E-03 | 2.27E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.95E-03 | 1.19E-03 | 4.21E-02 | 4.33E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.65E-03 | 4.44E-03 | 1.02E-02 | 1.46E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.68E-03 | 1.13E-03 | 8.47E-03 | 9.60E-03 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.12E-01 | 4.89E-03 | 1.72E-05 | 9.17E-01 | 9.17E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-03 | 1.19E-02 | 4.73E-05 | 2.17E-02 | 2.17E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 6.05E-02 | 1.98E-03 | 3.39E-01 | 3.41E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 7.53E-02 | 7.40E-03 | 3.91E-01 | 3.98E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 5.82E-02 | 1.88E-03 | 4.29E-01 | 4.31E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.81E-03 | 0.00E+00 | 7.91E-03 | 0.00E+00 | 4.59E-01 | 2.03E-03 | 1.33E-05 | 4.72E-01 | 4.72E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 3.61E-03 | 0.00E+00 | 4.94E-03 | 4.93E-03 | 3.66E-05 | 1.39E-02 | 1.39E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 1.40E-01 | 2.51E-02 | 1.53E-03 | 2.10E-01 | 2.12E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 1.59E-01 | 3.13E-02 | 5.72E-03 | 3.66E-01 | 3.72E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 1.87E-01 | 2.42E-02 | 1.45E-03 | 2.26E-01 | 2.28E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.27E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.53E-01 | 2.03E-03 | 1.33E-05 | 5.55E-01 | 5.55E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.94E-03 | 4.93E-03 | 3.66E-05 | 1.10E-02 | 1.10E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 2.51E-02 | 1.53E-03 | 1.98E-01 | 2.00E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 3.13E-02 | 5.72E-03 | 2.23E-01 | 2.28E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.42E-02 | 1.45E-03 | 2.49E-01 | 2.51E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-148**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 2E-01 | 7E-02 | 2E-01 | 7E-02 |
| | **Mercury** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Blue Jay - mid** | **tPCB-med** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Chromium** | 5E-01 | 4E-01 | 5E-01 | 4E-01 |
| | **Lead** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | **2E+00** | 9E-01 | **2E+00** | 1E+00 |
| **Blue Jay - high** | **tPCB-high** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Mercury** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Vanadium** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| **Shrew - 1** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 3E-02 | 1E-02 | 3E-02 | 2E-02 |
| | **Chromium** | 2E-02 | 1E-02 | 2E-02 | 2E-02 |
| | **Lead** | 2E-03 | 1E-03 | 3E-03 | 2E-03 |
| | **Vanadium** | 2E-03 | 1E-03 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Mercury** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 9E-02 | 7E-02 | 9E-02 | 8E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-149**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **1.29E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.05E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **1.29E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Blue Jay - mid** | **tPCB-med** | **1.29E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.05E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **1.29E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.29E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.05E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.29E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Shrew - 1** | **tPCB** | **1.29E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.05E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **1.29E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.05E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **1.29E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.05E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **1.29E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.05E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **1.29E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **7.50E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.88E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **3.05E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.83E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-149**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E-02 | 1.88E-05 | 8.71E-02 | 8.71E-02 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E-02 | 5.16E-05 | 2.32E-02 | 2.32E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.68E-01 | 2.16E-03 | 7.07E-01 | 7.09E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.98E-01 | 8.08E-03 | 6.12E-01 | 6.20E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.55E-01 | 2.05E-03 | 5.73E-01 | 5.75E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E-02 | 1.88E-05 | 8.71E-02 | 8.71E-02 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 8.79E-02 | 0.00E+00 | 0.00E+00 | 2.76E-02 | 2.04E-05 | 1.69E-01 | 1.69E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 1.06E-03 | 0.00E+00 | 4.01E-02 | 0.00E+00 | 0.00E+00 | 1.61E-02 | 5.59E-05 | 6.44E-02 | 6.44E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 4.01E-01 | 2.34E-03 | 1.14E+00 | 1.14E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 0.00E+00 | 6.52E-01 | 8.75E-03 | 2.61E+00 | 2.62E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 6.06E-01 | 2.22E-03 | 7.82E-01 | 7.85E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 8.79E-02 | 0.00E+00 | 0.00E+00 | 2.76E-02 | 2.04E-05 | 1.69E-01 | 1.69E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.91E-01 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 4.41E-02 | 4.23E-05 | 6.50E-01 | 6.50E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 6.92E-03 | 8.72E-02 | 1.80E-01 | 0.00E+00 | 0.00E+00 | 2.56E-02 | 1.16E-04 | 3.01E-01 | 3.01E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 6.40E-01 | 4.86E-03 | 3.68E+00 | 3.69E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 1.82E-02 | 1.40E+01 | 1.41E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 9.66E-01 | 4.62E-03 | 2.05E+00 | 2.05E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.91E-01 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 4.41E-02 | 4.23E-05 | 6.50E-01 | 6.50E-01 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.70E-03 | 3.13E-03 | 2.47E-01 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.95E-03 | 2.35E-05 | 4.32E-01 | 4.32E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 2.06E-03 | 1.13E-01 | 7.77E-02 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 6.45E-05 | 1.96E-01 | 1.96E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 0.00E+00 | 7.19E-02 | 2.70E-03 | 1.90E+00 | 1.90E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 0.00E+00 | 1.17E-01 | 1.01E-02 | 9.37E+00 | 9.38E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 0.00E+00 | 1.09E-01 | 2.57E-03 | 8.69E-01 | 8.72E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.40E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-04 | 1.03E-05 | 6.78E-03 | 6.79E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.20E-04 | 2.84E-05 | 1.10E-03 | 1.12E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.50E-03 | 1.19E-03 | 4.06E-02 | 4.18E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.92E-03 | 4.44E-03 | 1.04E-02 | 1.49E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.29E-03 | 1.13E-03 | 1.01E-02 | 1.12E-02 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.12E-01 | 3.30E-03 | 1.72E-05 | 9.15E-01 | 9.15E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-03 | 1.91E-03 | 4.73E-05 | 1.17E-02 | 1.18E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 4.79E-02 | 1.98E-03 | 3.26E-01 | 3.28E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 7.77E-02 | 7.40E-03 | 3.93E-01 | 4.01E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 7.22E-02 | 1.88E-03 | 4.43E-01 | 4.45E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.81E-03 | 0.00E+00 | 7.91E-03 | 0.00E+00 | 0.00E+00 | 4.59E-01 | 1.37E-03 | 1.33E-05 | 4.72E-01 | 4.72E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 3.61E-03 | 0.00E+00 | 0.00E+00 | 4.94E-03 | 7.95E-04 | 3.66E-05 | 9.73E-03 | 9.77E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.99E-02 | 1.53E-03 | 2.05E-01 | 2.07E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 3.23E-02 | 5.72E-03 | 3.67E-01 | 3.73E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 3.00E-02 | 1.45E-03 | 2.32E-01 | 2.33E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.27E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.53E-01 | 1.37E-03 | 1.33E-05 | 5.55E-01 | 5.55E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.94E-03 | 7.95E-04 | 3.66E-05 | 6.84E-03 | 6.88E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 1.99E-02 | 1.53E-03 | 1.93E-01 | 1.95E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 3.23E-02 | 5.72E-03 | 2.24E-01 | 2.29E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 3.00E-02 | 1.45E-03 | 2.55E-01 | 2.57E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-149**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 2E-01 | 6E-02 | 2E-01 | 6E-02 |
| | **Mercury** | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Mourning Dove - high** | **tPCB-high** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| **Blue Jay - mid** | **tPCB-med** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Chromium** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Mercury** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+01** | **5E+00** | **2E+01** | **5E+00** |
| **Shrew - 1** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 1E-02 | 7E-03 | 1E-02 | 7E-03 |
| | **Chromium** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 2E-03 | 1E-03 | 3E-03 | 2E-03 |
| | **Vanadium** | 2E-03 | 1E-03 | 3E-03 | 1E-03 |
| **Weasel** | **tPCB** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Mercury** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 8E-02 | 4E-02 | 9E-02 | 5E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 1E-01 | 6E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-150**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.91E+00** | **1.02E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.30E+02** | **2.69E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.10E+00** | **3.90E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.95E+01** | **9.20E+00** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **7.60E+00** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.91E+00** | **1.02E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.91E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **1.30E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **8.10E+00** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **2.95E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.91E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.91E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **1.30E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **8.10E+00** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **2.95E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **1.91E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **1.30E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **8.10E+00** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **2.95E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **2.28E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-150**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Measured Tissue (mg/kg dry weight) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |

**Table E3-150**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.00E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 |
| | **Mercury** | 2.39E+00 | 2.06E-01 | 6.31E-02 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 2.00E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.00E-02 |
| **Hawk - mid** | **tPCB-med** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.10E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 |
| | **Mercury** | 2.39E+00 | 2.06E-01 | 6.31E-02 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.10E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 |
| **Hawk - high** | **tPCB-high** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.10E+00 |
| **Raccoon - 1** | **tPCB** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 5.60E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 |
| | **Mercury** | 2.39E+00 | 2.06E-01 | 6.31E-02 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 5.60E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 |
| **Shrew - 2** | **tPCB** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.70E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 |
| | **Mercury** | 2.39E+00 | 2.06E-01 | 6.31E-02 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.70E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 |

**Table E3-150**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 9.37E-03 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.53E-03 | 0.00E+00 | 0.00E+00 | 8.72E-02 | 0.00E+00 | 6.92E-03 | 0.00E+00 | 1.80E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 9.37E-03 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.40E-02 | 0.00E+00 | 2.58E-04 | 1.40E-02 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 0.00E+00 | 3.64E-03 |
| | **Barium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 |
| | **Chromium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| | **Cobalt** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 |
| | **Lead** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 |
| | **Mercury** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 6.40E-03 | 0.00E+00 | 1.69E-04 | 6.40E-03 | 0.00E+00 | 2.35E-04 | 0.00E+00 | 0.00E+00 | 8.16E-04 |
| | **Vanadium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| **Shrew - 2** | **tPCB** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 9.50E-03 | 0.00E+00 | 2.74E-01 | 0.00E+00 | 2.15E-03 | 1.17E-01 | 0.00E+00 | 9.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 1.30E-03 | 0.00E+00 | 1.25E-01 | 0.00E+00 | 1.41E-03 | 5.33E-02 | 0.00E+00 | 1.05E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-150**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 4.23E-05 | 2.67E-01 | 4.04E-01 | 6.71E-01 | 6.71E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.44E+00 | 0.00E+00 | 3.27E-02 | 1.38E+01 | 1.88E+01 | 3.26E+01 | 3.26E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 4.86E-03 | 2.33E+00 | 1.54E+00 | 3.87E+00 | 3.87E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.76E-01 | 0.00E+00 | 3.29E-03 | 2.51E+00 | 1.19E+00 | 3.70E+00 | 3.70E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 1.82E-02 | 5.26E+00 | 8.90E+00 | 1.42E+01 | 1.42E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 0.00E+00 | 1.16E-04 | 2.53E-01 | 1.82E-01 | 4.35E-01 | 4.35E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.78E-01 | 0.00E+00 | 4.62E-03 | 1.15E+00 | 7.53E-01 | 1.90E+00 | 1.90E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 4.23E-05 | 2.67E-01 | 4.04E-01 | 6.71E-01 | 6.71E-01 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.75E-01 | 0.00E+00 | 8.75E-03 | 4.66E-03 | 8.93E-06 | 1.08E+00 | 5.80E-01 | 1.66E+00 | 1.66E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 5.94E-01 | 1.23E-01 | 6.90E-03 | 3.62E+00 | 2.26E-01 | 3.85E+00 | 3.86E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.08E-01 | 6.21E-02 | 1.03E-03 | 4.35E-01 | 1.56E-01 | 5.91E-01 | 5.92E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00 | 3.70E-02 | 1.78E-02 | 6.95E-04 | 1.13E+00 | 2.53E-01 | 1.38E+00 | 1.38E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.98E-03 | 0.00E+00 | 1.35E-01 | 4.20E-02 | 3.84E-03 | 5.05E-01 | 5.00E-02 | 5.55E-01 | 5.59E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-02 | 0.00E+00 | 2.12E-02 | 3.72E-03 | 2.45E-05 | 3.28E-02 | 2.58E-02 | 5.85E-02 | 5.86E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.04E-01 | 3.47E-02 | 9.75E-04 | 5.40E-01 | 1.29E-01 | 6.69E-01 | 6.70E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.75E-01 | 0.00E+00 | 8.75E-03 | 4.66E-03 | 8.93E-06 | 1.08E+00 | 5.80E-01 | 1.66E+00 | 1.66E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 3.12E-02 | 0.00E+00 | 0.00E+00 | 2.96E-02 | 4.37E-03 | 4.83E-03 | 0.00E+00 | 1.30E-05 | 6.01E-02 | 6.88E-02 | 1.29E-01 | 1.29E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 3.28E-01 | 0.00E+00 | 1.00E-02 | 4.60E+00 | 7.44E-01 | 5.35E+00 | 5.36E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 5.98E-02 | 0.00E+00 | 1.49E-03 | 2.19E-01 | 2.69E-02 | 2.46E-01 | 2.47E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.04E-02 | 0.00E+00 | 1.01E-03 | 1.27E-01 | 8.34E-02 | 2.11E-01 | 2.12E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 7.44E-02 | 0.00E+00 | 5.59E-03 | 7.05E-01 | 1.55E-02 | 7.20E-01 | 7.26E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 6.32E-04 | 0.00E+00 | 0.00E+00 | 1.14E-03 | 4.51E-04 | 1.17E-02 | 0.00E+00 | 3.57E-05 | 2.56E-02 | 3.03E-03 | 2.87E-02 | 2.87E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 5.75E-02 | 0.00E+00 | 1.42E-03 | 1.19E-01 | 1.17E-02 | 1.31E-01 | 1.32E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.05E-02 | 6.94E-03 | 7.34E-03 | 3.91E-03 | 2.35E-05 | 5.08E-01 | 8.14E-02 | 5.89E-01 | 5.89E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-02 | 5.62E-02 | 4.98E-01 | 1.03E-01 | 1.82E-02 | 2.35E+01 | 1.72E-01 | 2.37E+01 | 2.37E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.31E-02 | 9.09E-02 | 5.22E-02 | 2.70E-03 | 1.79E+00 | 8.68E-02 | 1.88E+00 | 1.88E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 1.99E-03 | 3.11E-02 | 1.50E-02 | 1.83E-03 | 9.77E-01 | 4.57E-02 | 1.02E+00 | 1.02E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-04 | 5.27E-03 | 1.13E-01 | 3.53E-02 | 1.01E-02 | 8.81E+00 | 4.15E-02 | 8.85E+00 | 8.86E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-03 | 7.16E-04 | 1.78E-02 | 3.13E-03 | 6.45E-05 | 2.00E-01 | 6.55E-03 | 2.06E-01 | 2.07E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.07E-03 | 8.74E-02 | 2.91E-02 | 2.57E-03 | 8.38E-01 | 4.27E-02 | 8.81E-01 | 8.84E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-150**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 6E-01 | 2E-01 | 9E-01 | 3E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Barium** | 7E-01 | 3E-01 | 9E-01 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 9E-01 | 8E-01 | 6E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **3E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Mercury** | **1E+01** | **4E+00** | **8E+00** | **3E+00** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Vanadium** | **3E+00** | **2E+00** | **2E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **6E+00** | **2E+00** | **9E+00** | **3E+00** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| **Hawk - mid** | **tPCB-med** | **2E+00** | 8E-01 | **1E+00** | 4E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | 2E-01 | 9E-02 | 1E-02 | 5E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 6E-02 | 6E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 3E-02 | 3E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 2E-01 | 3E-02 | 2E-02 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | **1E+00** | 5E-01 | **1E+00** | 4E-01 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | 4E-01 | 2E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **2E+01** | **8E+00** | **1E+01** | **4E+00** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Raccoon - 1** | **tPCB** | 3E-01 | 9E-02 | 3E-01 | 1E-01 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 9E-02 | 8E-02 | 1E-02 | 1E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 1E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 3E-01 | 2E-01 | 4E-02 | 2E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+00** | 7E-01 | 4E-01 | 1E-01 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 5E-01 | 2E-01 | 3E-03 | 1E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 4E-02 | 3E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 6E-03 | 5E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 9E-03 | 5E-03 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **3E+00** | **1E+00** | 9E-02 | 4E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 1E-02 | 5E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-151**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.29E+00** | **1.02E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.88E+01** | **1.36E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **7.50E-01** | **8.15E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.29E+00** | **1.02E+00** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.29E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.88E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **7.50E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.29E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.29E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **1.88E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **7.50E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Shrew - 2** | **tPCB** | **1.29E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.88E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **7.50E-01** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-151**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |

**Table E3-151**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-151**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 9.37E-03 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.53E-03 | 0.00E+00 | 0.00E+00 | 8.72E-02 | 0.00E+00 | 6.92E-03 | 0.00E+00 | 1.80E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 9.37E-03 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.40E-02 | 0.00E+00 | 2.58E-04 | 1.40E-02 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 0.00E+00 | 3.64E-03 | 3.12E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 7.06E-04 | 0.00E+00 | 6.40E-03 | 0.00E+00 | 1.69E-04 | 6.40E-03 | 0.00E+00 | 2.35E-04 | 0.00E+00 | 0.00E+00 | 8.16E-04 | 6.32E-04 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 9.50E-03 | 0.00E+00 | 2.74E-01 | 0.00E+00 | 2.15E-03 | 1.17E-01 | 0.00E+00 | 9.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-03 | 0.00E+00 | 1.25E-01 | 0.00E+00 | 1.41E-03 | 5.33E-02 | 0.00E+00 | 1.05E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-151**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 4.41E-02 | 0.00E+00 | 4.23E-05 | 2.46E-01 | 4.04E-01 | 6.50E-01 | 6.50E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 4.86E+00 | 0.00E+00 | 3.27E-02 | 1.42E+01 | 1.88E+01 | 3.30E+01 | 3.31E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 6.40E-01 | 0.00E+00 | 4.86E-03 | 2.16E+00 | 1.54E+00 | 3.70E+00 | 3.70E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 4.64E-01 | 0.00E+00 | 3.29E-03 | 2.70E+00 | 1.19E+00 | 3.89E+00 | 3.89E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 1.82E-02 | 5.30E+00 | 8.90E+00 | 1.42E+01 | 1.42E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.56E-02 | 0.00E+00 | 1.16E-04 | 1.20E-01 | 1.82E-01 | 3.01E-01 | 3.02E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 9.66E-01 | 0.00E+00 | 4.62E-03 | 1.33E+00 | 7.53E-01 | 2.09E+00 | 2.09E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 4.41E-02 | 0.00E+00 | 4.23E-05 | 2.46E-01 | 4.04E-01 | 6.50E-01 | 6.50E-01 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 5.75E-01 | 0.00E+00 | 5.90E-03 | 4.66E-03 | 8.93E-06 | 1.08E+00 | 5.80E-01 | 1.66E+00 | 1.66E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 1.03E-01 | 0.00E+00 | 6.51E-01 | 1.23E-01 | 6.90E-03 | 3.68E+00 | 2.26E-01 | 3.91E+00 | 3.91E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 9.39E-02 | 0.00E+00 | 8.57E-02 | 6.21E-02 | 1.03E-03 | 4.13E-01 | 1.56E-01 | 5.69E-01 | 5.70E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 2.35E-01 | 0.00E+00 | 6.21E-02 | 1.78E-02 | 6.95E-04 | 1.15E+00 | 2.53E-01 | 1.40E+00 | 1.41E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 7.98E-03 | 0.00E+00 | 1.39E-01 | 4.20E-02 | 3.84E-03 | 5.10E-01 | 5.00E-02 | 5.60E-01 | 5.64E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 2.21E-02 | 0.00E+00 | 3.43E-03 | 3.72E-03 | 2.45E-05 | 1.49E-02 | 2.58E-02 | 4.07E-02 | 4.07E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 9.39E-02 | 0.00E+00 | 1.29E-01 | 3.47E-02 | 9.75E-04 | 5.65E-01 | 1.29E-01 | 6.94E-01 | 6.95E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 5.75E-01 | 0.00E+00 | 5.90E-03 | 4.66E-03 | 8.93E-06 | 1.08E+00 | 5.80E-01 | 1.66E+00 | 1.66E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 2.96E-02 | 4.37E-03 | 3.26E-03 | 0.00E+00 | 1.30E-05 | 5.85E-02 | 6.88E-02 | 1.27E-01 | 1.27E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 5.32E-03 | 3.54E-02 | 3.59E-01 | 0.00E+00 | 1.00E-02 | 4.63E+00 | 7.44E-01 | 5.38E+00 | 5.39E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 4.83E-03 | 1.45E-02 | 4.73E-02 | 0.00E+00 | 1.49E-03 | 2.06E-01 | 2.69E-02 | 2.33E-01 | 2.35E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 1.21E-02 | 1.25E-03 | 3.43E-02 | 0.00E+00 | 1.01E-03 | 1.41E-01 | 8.34E-02 | 2.24E-01 | 2.26E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 4.11E-04 | 3.32E-03 | 7.68E-02 | 0.00E+00 | 5.59E-03 | 7.07E-01 | 1.55E-02 | 7.22E-01 | 7.28E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 1.14E-03 | 4.51E-04 | 1.89E-03 | 0.00E+00 | 3.57E-05 | 1.58E-02 | 3.03E-03 | 1.88E-02 | 1.89E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 4.83E-03 | 1.30E-03 | 7.14E-02 | 0.00E+00 | 1.42E-03 | 1.33E-01 | 1.17E-02 | 1.44E-01 | 1.46E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 7.05E-02 | 6.94E-03 | 4.95E-03 | 3.91E-03 | 2.35E-05 | 5.05E-01 | 8.14E-02 | 5.87E-01 | 5.87E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 1.27E-02 | 5.62E-02 | 5.46E-01 | 1.03E-01 | 1.82E-02 | 2.36E+01 | 1.72E-01 | 2.38E+01 | 2.38E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 1.15E-02 | 2.31E-02 | 7.19E-02 | 5.22E-02 | 2.70E-03 | 1.77E+00 | 8.68E-02 | 1.86E+00 | 1.86E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.88E-02 | 1.99E-03 | 5.22E-02 | 1.50E-02 | 1.83E-03 | 9.98E-01 | 4.57E-02 | 1.04E+00 | 1.05E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 9.79E-04 | 5.27E-03 | 1.17E-01 | 3.53E-02 | 1.01E-02 | 8.81E+00 | 4.15E-02 | 8.85E+00 | 8.86E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 2.71E-03 | 7.16E-04 | 2.88E-03 | 3.13E-03 | 6.45E-05 | 1.85E-01 | 6.55E-03 | 1.92E-01 | 1.92E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 1.15E-02 | 2.07E-03 | 1.09E-01 | 2.91E-02 | 2.57E-03 | 8.59E-01 | 4.27E-02 | 9.02E-01 | 9.05E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-151**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5E-01 | 2E-01 | 9E-01 | 3E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Barium** | 7E-01 | 3E-01 | 9E-01 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 8E-01 | 8E-01 | 6E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 4E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **3E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Mercury** | **5E+00** | **2E+00** | **8E+00** | **3E+00** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Vanadium** | **4E+00** | **2E+00** | **2E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **6E+00** | **2E+00** | **9E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Hawk - mid** | **tPCB-med** | **2E+00** | 8E-01 | **1E+00** | 4E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | 2E-01 | 9E-02 | 1E-02 | 5E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 2E-01 | 1E-01 | 6E-02 | 6E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 3E-02 | 3E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 2E-01 | 3E-02 | 2E-02 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | 7E-01 | 2E-01 | **1E+00** | 4E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | 4E-01 | 2E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **2E+01** | **8E+00** | **1E+01** | **4E+00** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Raccoon - 1** | **tPCB** | 3E-01 | 9E-02 | 3E-01 | 1E-01 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 9E-02 | 7E-02 | 1E-02 | 1E-02 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 2E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 2E-01 | 1E-01 | 4E-02 | 2E-02 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 3E-02 | 2E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+00** | 7E-01 | 4E-01 | 1E-01 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 5E-01 | 2E-01 | 3E-03 | 1E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 4E-02 | 3E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 6E-03 | 5E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 9E-03 | 5E-03 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **2E+00** | **1E+00** | 9E-02 | 4E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 1E-02 | 5E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-152**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C8, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 2** | **tPCB-mink** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Raccoon - 1** | **tPCB** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Raccoon - 2** | **tPCB** | **2.26E+00** | **1.02E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Barium** | **1.43E+02** | **2.69E+01** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Chromium** | **2.37E+01** | **1.36E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Cobalt** | **1.36E+01** | **3.90E+00** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Lead** | **3.05E+01** | **9.20E+00** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Vanadium** | **2.83E+01** | **7.60E+00** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |

**Table E3-152**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C8, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| **GBH - mid** | **tPCB-med** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **GBH - high** | **tPCB-high** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |

**Table E3-152**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C8, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 9.69E-02 | 4.65E-01 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E+00 | 2.04E+01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 1.73E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.96E-01 | 5.06E-01 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 1.03E+01 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.24E-02 | 2.12E-01 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.28E-01 | 8.38E-01 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 9.69E-02 | 4.65E-01 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.11E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.11E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.46E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 9.62E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.40E-02 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 6.40E-03 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.95E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.19E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 8.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-152**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C8, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.62E-02 | 1.63E-02 | 2.66E-05 | 5.01E-01 | 1.13E-01 | 6.15E-01 | 6.15E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E+00 | 4.31E-01 | 2.06E-02 | 2.27E+01 | 5.77E+00 | 2.84E+01 | 2.85E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.80E-01 | 2.18E-01 | 3.06E-03 | 2.11E+00 | 5.62E-01 | 2.67E+00 | 2.67E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.18E-01 | 6.25E-02 | 2.07E-03 | 7.24E-01 | 4.58E-01 | 1.18E+00 | 1.18E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.88E-01 | 1.47E-01 | 1.14E-02 | 1.08E+01 | 6.82E-01 | 1.15E+01 | 1.15E+01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.45E-02 | 1.31E-02 | 7.31E-05 | 2.87E-01 | 5.54E-02 | 3.42E-01 | 3.42E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.53E-01 | 1.22E-01 | 2.91E-03 | 1.29E+00 | 3.49E-01 | 1.64E+00 | 1.64E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.62E-02 | 1.63E-02 | 2.66E-05 | 5.01E-01 | 1.13E-01 | 6.15E-01 | 6.15E-01 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-02 | 0.00E+00 | 0.00E+00 | 1.84E-03 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.83E-02 | 0.00E+00 | 3.59E-03 | 7.05E-06 | 2.70E-02 | 8.79E+00 | 8.81E+00 | 8.81E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 | 0.00E+00 | 0.00E+00 | 3.51E-01 | 2.45E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 9.47E-02 | 5.45E-03 | 7.65E-02 | 3.20E+00 | 3.28E+00 | 3.28E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-03 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 7.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 4.79E-02 | 8.10E-04 | 8.25E-03 | 9.32E-01 | 9.40E-01 | 9.41E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 7.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 1.37E-02 | 5.49E-04 | 2.75E-02 | 1.35E-01 | 1.63E-01 | 1.63E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.35E-03 | 0.00E+00 | 0.00E+00 | 5.78E-03 | 9.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 0.00E+00 | 3.24E-02 | 3.03E-03 | 9.35E-03 | 1.58E-01 | 1.67E-01 | 1.70E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.91E-04 | 0.00E+00 | 0.00E+00 | 4.12E-04 | 1.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.94E-03 | 0.00E+00 | 2.87E-03 | 1.94E-05 | 2.91E-04 | 1.84E-01 | 1.85E-01 | 1.85E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 1.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 2.68E-02 | 7.70E-04 | 1.10E-02 | 2.37E-01 | 2.48E-01 | 2.49E-01 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-02 | 0.00E+00 | 0.00E+00 | 1.84E-03 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.83E-02 | 0.00E+00 | 3.59E-03 | 7.05E-06 | 2.70E-02 | 8.79E+00 | 8.81E+00 | 8.81E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-01 | 0.00E+00 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 0.00E+00 | 3.48E-01 | 0.00E+00 | 6.98E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.34E-01 | 4.23E-01 | 7.57E-01 | 7.57E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-01 | 0.00E+00 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 0.00E+00 | 3.48E-01 | 0.00E+00 | 6.98E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.34E-01 | 4.23E-01 | 7.57E-01 | 7.57E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.45E-01 | 0.00E+00 | 0.00E+00 | 8.87E-01 | 0.00E+00 | 0.00E+00 | 3.42E-01 | 0.00E+00 | 5.66E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 9.45E-01 | 1.80E+00 | 2.74E+00 | 2.75E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 2.32E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.02E-01 | 3.54E-01 | 4.56E-01 | 4.58E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 2.00E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 3.10E-01 | 6.50E-01 | 6.51E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 0.00E+00 | 0.00E+00 | 2.15E-02 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.16E-01 | 8.91E-02 | 2.05E-01 | 2.11E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 0.00E+00 | 0.00E+00 | 1.04E-03 | 0.00E+00 | 0.00E+00 | 6.71E-03 | 0.00E+00 | 7.20E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 3.59E-03 | 1.50E-02 | 1.85E-02 | 1.86E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 0.00E+00 | 2.08E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 3.93E-02 | 1.75E-01 | 1.77E-01 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.56E-02 | 0.00E+00 | 0.00E+00 | 2.07E-03 | 0.00E+00 | 0.00E+00 | 1.43E+00 | 0.00E+00 | 8.06E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.56E-02 | 1.44E+00 | 1.48E+00 | 1.48E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.56E-02 | 0.00E+00 | 0.00E+00 | 2.07E-03 | 0.00E+00 | 0.00E+00 | 1.43E+00 | 0.00E+00 | 8.06E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.56E-02 | 1.44E+00 | 1.48E+00 | 1.48E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 3.94E-01 | 0.00E+00 | 0.00E+00 | 1.40E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.29E-01 | 1.90E+00 | 2.02E+00 | 2.04E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 4.73E-01 | 0.00E+00 | 2.68E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.39E-02 | 5.04E-01 | 5.18E-01 | 5.19E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.80E-01 | 9.27E-01 | 9.28E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 6.50E-03 | 0.00E+00 | 0.00E+00 | 8.80E-02 | 0.00E+00 | 6.11E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.58E-02 | 1.04E-01 | 1.20E-01 | 1.27E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.90E-04 | 0.00E+00 | 0.00E+00 | 4.63E-04 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 8.31E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 4.90E-04 | 2.88E-02 | 2.93E-02 | 2.93E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 5.05E-02 | 0.00E+00 | 2.40E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 5.66E-02 | 7.52E-02 | 7.69E-02 |
| **Raccoon - 1** | **tPCB** | 2.58E-04 | 1.40E-02 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 0.00E+00 | 3.64E-03 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 2.96E-02 | 4.37E-03 | 5.70E-03 | 0.00E+00 | 1.30E-05 | 6.10E-02 | 6.88E-02 | 1.30E-01 | 1.30E-01 |
| | **Barium** | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 3.59E-01 | 0.00E+00 | 1.00E-02 | 4.63E+00 | 7.44E-01 | 5.38E+00 | 5.39E+00 |
| | **Chromium** | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 5.98E-02 | 0.00E+00 | 1.49E-03 | 2.19E-01 | 2.69E-02 | 2.46E-01 | 2.47E-01 |
| | **Cobalt** | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 3.43E-02 | 0.00E+00 | 1.01E-03 | 1.41E-01 | 8.34E-02 | 2.24E-01 | 2.26E-01 |
| | **Lead** | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 7.68E-02 | 0.00E+00 | 5.59E-03 | 7.07E-01 | 1.55E-02 | 7.22E-01 | 7.28E-01 |
| | **Mercury** | 1.69E-04 | 6.40E-03 | 0.00E+00 | 2.35E-04 | 0.00E+00 | 0.00E+00 | 8.16E-04 | 6.32E-04 | 0.00E+00 | 0.00E+00 | 1.14E-03 | 4.51E-04 | 1.17E-02 | 0.00E+00 | 3.57E-05 | 2.56E-02 | 3.03E-03 | 2.87E-02 | 2.87E-02 |
| | **Vanadium** | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 7.14E-02 | 0.00E+00 | 1.42E-03 | 1.33E-01 | 1.17E-02 | 1.44E-01 | 1.46E-01 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.83E-02 | 8.76E-04 | 4.17E-02 | 3.64E-03 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E-02 | 0.00E+00 | 2.57E-03 | 1.30E-05 | 7.83E-02 | 3.94E-01 | 4.72E-01 | 4.73E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-01 | 4.83E-02 | 1.19E-01 | 6.95E-01 | 9.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 6.78E-02 | 1.00E-02 | 2.21E-01 | 1.48E+00 | 1.70E+00 | 1.71E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-02 | 3.11E-03 | 4.68E-02 | 4.84E-03 | 2.81E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-02 | 0.00E+00 | 3.43E-02 | 1.49E-03 | 2.39E-02 | 1.90E-01 | 2.13E-01 | 2.15E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-02 | 3.58E-03 | 1.35E-02 | 6.97E-02 | 2.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-03 | 0.00E+00 | 9.83E-03 | 1.01E-03 | 7.96E-02 | 2.63E-01 | 3.42E-01 | 3.44E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-02 | 4.83E-03 | 1.56E-02 | 1.15E-02 | 3.38E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 2.32E-02 | 5.59E-03 | 2.71E-02 | 1.04E-01 | 1.31E-01 | 1.37E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.41E-04 | 3.83E-04 | 3.01E-03 | 8.16E-04 | 6.60E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 0.00E+00 | 2.06E-03 | 3.57E-05 | 8.41E-04 | 1.50E-02 | 1.58E-02 | 1.59E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 | 2.06E-03 | 6.56E-03 | 4.84E-03 | 7.33E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-03 | 0.00E+00 | 1.92E-02 | 1.42E-03 | 3.19E-02 | 5.40E-02 | 8.59E-02 | 8.73E-02 |

**Table E3-152**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C8, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | 2E-01 | 8E-02 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 2.08E+01 | 4.17E+01 | **1E+00** | 5E-01 | 3E-01 | 1E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 8E-01 | 8E-01 | 2E-01 | 2E-01 | 1E+00 | 1E+00 | 1E+00 | 1E+00 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 1E-01 | 9E-02 | 6E-02 | 6E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **7E+00** | **3E+00** | 4E-01 | 2E-01 | **7E+00** | **4E+00** | **7E+00** | **4E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **1E+01** | **4E+00** | **2E+00** | 8E-01 | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | 1E+00 | 5E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+01** | **4E+00** | **3E+00** | 9E-01 | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **GBH - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 6E-02 | 2E-02 | **2E+01** | **6E+00** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 4E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 4E-01 | 3E-01 | 4E-01 | 3E-01 | 4E-01 | 3E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 1E-01 | 5E-02 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 1E-02 | 4E-03 | **8E+00** | **3E+00** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 7E-01 | 3E-01 | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| **GBH - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | 6E-01 | 2E-01 | **2E+02** | **7E+01** | **2E+02** | **7E+01** | **2E+02** | **7E+01** |
| **Mink - 1** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | **7E+00** | **3E+00** | **8E+00** | **4E+00** | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | **7E+00** | **--** | **8E+00** | **--** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-02 | 8E-03 | 3E-02 | 1E-02 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 4E-02 | 4E-02 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 | 6E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 5E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 5E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Mink - 2** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | 9E-01 | 5E-01 | **3E+01** | **1E+01** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | 9E-01 | **--** | **3E+01** | **--** | **3E+01** | **--** | **3E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 6E-03 | 5E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 2E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 7E-03 | 3E-03 | 4E-01 | 2E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-01 | 9E-02 | 3E-01 | 1E-01 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 9E-02 | 8E-02 | 1E-02 | 1E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 3E-01 | 2E-01 | 4E-02 | 2E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | **2E+00** | 6E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 4E-03 | 2E-03 | 3E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-02 | 8E-03 | 8E-02 | 7E-02 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 2E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 1E-02 | 6E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 1E-02 | 7E-03 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-153**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C8, Subarea Soil - North**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **1.91E+00** | **1.02E+00** | 1.00E+01 | 2.26E-02 | NA | 2.26E-02 | 9.02E-01 | -- | 9.02E-01 | 2.80E+01 | 6.60E+01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | 8.00E-01 | 1.49E-02 | NA | 1.49E-02 | 4.77E-02 | -- | 4.77E-02 | 4.40E-01 | 8.00E-01 | 1E-01 | 6E-02 | -- | -- | 1E-01 | 6E-02 |
| **Mourning Dove - high** | **tPCB-high** | **1.91E+00** | **1.02E+00** | 1.00E+01 | 2.26E-02 | NA | 2.26E-02 | 9.02E-01 | -- | 9.02E-01 | 2.10E+00 | 4.50E+00 | 4E-01 | 2E-01 | -- | -- | 4E-01 | 2E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.91E+00** | **1.02E+00** | 1.00E+01 | 2.75E-02 | NA | 2.75E-02 | 1.10E+00 | -- | 1.10E+00 | 2.80E+01 | 6.60E+01 | 4E-02 | 2E-02 | -- | -- | 4E-02 | 2E-02 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | 8.00E-01 | 2.14E-02 | NA | 2.14E-02 | 6.85E-02 | -- | 6.85E-02 | 4.40E-01 | 8.00E-01 | 2E-01 | 9E-02 | -- | -- | 2E-01 | 9E-02 |
| **Blue Jay - high** | **tPCB-high** | **1.91E+00** | **1.02E+00** | 1.00E+01 | 2.75E-02 | NA | 2.75E-02 | 1.10E+00 | -- | 1.10E+00 | 2.10E+00 | 4.50E+00 | 5E-01 | 2E-01 | -- | -- | 5E-01 | 2E-01 |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **1.91E+00** | **1.02E+00** | 1.00E+01 | 2.14E-02 | NA | 2.14E-02 | 8.57E-01 | -- | 8.57E-01 | 2.80E+01 | 6.60E+01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | 8.00E-01 | 1.91E-02 | NA | 1.91E-02 | 6.10E-02 | -- | 6.10E-02 | 4.40E-01 | 8.00E-01 | 1E-01 | 8E-02 | -- | -- | 1E-01 | 8E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.91E+00** | **1.02E+00** | 1.00E+01 | 2.14E-02 | NA | 2.14E-02 | 8.57E-01 | -- | 8.57E-01 | 2.10E+00 | 4.50E+00 | 4E-01 | 2E-01 | -- | -- | 4E-01 | 2E-01 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.91E+00** | **1.02E+00** | 1.00E+01 | 8.20E-03 | 6.53E-03 | 1.47E-02 | 3.28E-01 | 2.61E-01 | 5.89E-01 | 2.80E+01 | 6.60E+01 | 1E-02 | 5E-03 | 9E-03 | 4E-03 | 2E-02 | 9E-03 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | 8.00E-01 | 8.77E-03 | 2.68E-03 | 1.14E-02 | 2.81E-02 | 8.56E-03 | 3.66E-02 | 4.40E-01 | 8.00E-01 | 6E-02 | 4E-02 | 2E-02 | 1E-02 | 8E-02 | 5E-02 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **1.91E+00** | **1.02E+00** | 1.00E+01 | 8.20E-03 | 6.53E-03 | 1.47E-02 | 3.28E-01 | 2.61E-01 | 5.89E-01 | 2.10E+00 | 4.50E+00 | 2E-01 | 7E-02 | 1E-01 | 6E-02 | 3E-01 | 1E-01 |
| **Hawk - mid** | **tPCB-med** | **1.91E+00** | **1.02E+00** | 1.00E+01 | 2.36E-01 | 2.92E-01 | 5.28E-01 | 9.44E+00 | 1.17E+01 | 2.11E+01 | 2.80E+01 | 6.60E+01 | 3E-01 | 1E-01 | 4E-01 | 2E-01 | 8E-01 | 3E-01 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | 8.00E-01 | 7.28E-02 | 1.64E-02 | 8.92E-02 | 2.33E-01 | 5.25E-02 | 2.85E-01 | 4.40E-01 | 8.00E-01 | 5E-01 | 3E-01 | 1E-01 | 7E-02 | 6E-01 | 4E-01 |
| **Hawk - high** | **tPCB-high** | **1.91E+00** | **1.02E+00** | 1.00E+01 | 2.36E-01 | 2.92E-01 | 5.28E-01 | 9.44E+00 | 1.17E+01 | 2.11E+01 | 2.10E+00 | 4.50E+00 | **4E+00** | **2E+00** | **6E+00** | **3E+00** | **1E+01** | **5E+00** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-154**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C8, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **1.29E+00** | **1.02E+00** | 1.00E+01 | 1.59E-02 | NA | 1.59E-02 | 6.35E-01 | -- | 6.35E-01 | 2.80E+01 | 6.60E+01 | 2E-02 | 1E-02 | -- | -- | 2E-02 | 1E-02 |
| | **Mercury** | **7.50E-01** | **8.15E-01** | 8.00E-01 | 2.40E-03 | NA | 2.41E-03 | 7.69E-03 | -- | 7.71E-03 | 4.40E-01 | 8.00E-01 | 2E-02 | 1E-02 | -- | -- | 2E-02 | 1E-02 |
| **Mourning Dove - high** | **tPCB-high** | **1.29E+00** | **1.02E+00** | 1.00E+01 | 1.59E-02 | NA | 1.59E-02 | 6.35E-01 | -- | 6.35E-01 | 2.10E+00 | 4.50E+00 | 3E-01 | 1E-01 | -- | -- | 3E-01 | 1E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.29E+00** | **1.02E+00** | 1.00E+01 | 1.87E-02 | NA | 1.87E-02 | 7.46E-01 | -- | 7.46E-01 | 2.80E+01 | 6.60E+01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| | **Mercury** | **7.50E-01** | **8.15E-01** | 8.00E-01 | 4.30E-03 | NA | 4.30E-03 | 1.38E-02 | -- | 1.38E-02 | 4.40E-01 | 8.00E-01 | 3E-02 | 2E-02 | -- | -- | 3E-02 | 2E-02 |
| **Blue Jay - high** | **tPCB-high** | **1.29E+00** | **1.02E+00** | 1.00E+01 | 1.87E-02 | NA | 1.87E-02 | 7.46E-01 | -- | 7.46E-01 | 2.10E+00 | 4.50E+00 | 4E-01 | 2E-01 | -- | -- | 4E-01 | 2E-01 |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **1.29E+00** | **1.02E+00** | 1.00E+01 | 1.41E-02 | NA | 1.41E-02 | 5.63E-01 | -- | 5.63E-01 | 2.80E+01 | 6.60E+01 | 2E-02 | 9E-03 | -- | -- | 2E-02 | 9E-03 |
| | **Mercury** | **7.50E-01** | **8.15E-01** | 8.00E-01 | 4.37E-03 | NA | 4.38E-03 | 1.40E-02 | -- | 1.40E-02 | 4.40E-01 | 8.00E-01 | 3E-02 | 2E-02 | -- | -- | 3E-02 | 2E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.29E+00** | **1.02E+00** | 1.00E+01 | 1.41E-02 | NA | 1.41E-02 | 5.63E-01 | -- | 5.63E-01 | 2.10E+00 | 4.50E+00 | 3E-01 | 1E-01 | -- | -- | 3E-01 | 1E-01 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.29E+00** | **1.02E+00** | 1.00E+01 | 5.40E-03 | 6.53E-03 | 1.19E-02 | 2.16E-01 | 2.61E-01 | 4.77E-01 | 2.80E+01 | 6.60E+01 | 8E-03 | 3E-03 | 9E-03 | 4E-03 | 2E-02 | 7E-03 |
| | **Mercury** | **7.50E-01** | **8.15E-01** | 8.00E-01 | 1.84E-03 | 2.68E-03 | 4.51E-03 | 5.88E-03 | 8.56E-03 | 1.44E-02 | 4.40E-01 | 8.00E-01 | 1E-02 | 7E-03 | 2E-02 | 1E-02 | 3E-02 | 2E-02 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **1.29E+00** | **1.02E+00** | 1.00E+01 | 5.40E-03 | 6.53E-03 | 1.19E-02 | 2.16E-01 | 2.61E-01 | 4.77E-01 | 2.10E+00 | 4.50E+00 | 1E-01 | 5E-02 | 1E-01 | 6E-02 | 2E-01 | 1E-01 |
| **Hawk - mid** | **tPCB-med** | **1.29E+00** | **1.02E+00** | 1.00E+01 | 1.89E-01 | 2.92E-01 | 4.81E-01 | 7.57E+00 | 1.17E+01 | 1.93E+01 | 2.80E+01 | 6.60E+01 | 3E-01 | 1E-01 | 4E-01 | 2E-01 | 7E-01 | 3E-01 |
| | **Mercury** | **7.50E-01** | **8.15E-01** | 8.00E-01 | 1.17E-02 | 1.64E-02 | 2.82E-02 | 3.76E-02 | 5.25E-02 | 9.01E-02 | 4.40E-01 | 8.00E-01 | 9E-02 | 5E-02 | 1E-01 | 7E-02 | 2E-01 | 1E-01 |
| **Hawk - high** | **tPCB-high** | **1.29E+00** | **1.02E+00** | 1.00E+01 | 1.89E-01 | 2.92E-01 | 4.81E-01 | 7.57E+00 | 1.17E+01 | 1.93E+01 | 2.10E+00 | 4.50E+00 | **4E+00** | **2E+00** | **6E+00** | **3E+00** | **9E+00** | **4E+00** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-155**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C8, Aquatic and Subarea Soil - Riparian**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Tree Swallow - mid** | **tPCB-med** | **2.26E+00** | **1.02E+00** | 1.00E+01 | NA | 2.90E-03 | 2.90E-03 | -- | 1.16E-01 | 1.16E-01 | 2.80E+01 | 6.60E+01 | -- | -- | 4E-03 | 2E-03 | 4E-03 | 2E-03 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | 8.00E-01 | NA | 5.46E-04 | 5.48E-04 | -- | 1.75E-03 | 1.75E-03 | 4.40E-01 | 8.00E-01 | -- | -- | 4E-03 | 2E-03 | 4E-03 | 2E-03 |
| **Tree Swallow - high** | **tPCB-high** | **2.26E+00** | **1.02E+00** | 1.00E+01 | NA | 2.90E-03 | 2.90E-03 | -- | 1.16E-01 | 1.16E-01 | 2.10E+00 | 4.50E+00 | -- | -- | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.26E+00** | **1.02E+00** | 1.00E+01 | 4.01E-02 | 2.95E-03 | 4.31E-02 | 1.61E+00 | 1.18E-01 | 1.72E+00 | 2.80E+01 | 6.60E+01 | 6E-02 | 2E-02 | 4E-03 | 2E-03 | 6E-02 | 3E-02 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | 8.00E-01 | 2.90E-02 | 1.70E-03 | 3.07E-02 | 9.29E-02 | 5.43E-03 | 9.84E-02 | 4.40E-01 | 8.00E-01 | 2E-01 | 1E-01 | 1E-02 | 7E-03 | 2E-01 | 1E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.26E+00** | **1.02E+00** | 1.00E+01 | 4.01E-02 | 2.95E-03 | 4.31E-02 | 1.61E+00 | 1.18E-01 | 1.72E+00 | 2.10E+00 | 4.50E+00 | 8E-01 | 4E-01 | 6E-02 | 3E-02 | 8E-01 | 4E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **2.26E+00** | **1.02E+00** | 1.00E+01 | NA | 2.18E-01 | 2.18E-01 | -- | 8.74E+00 | 8.74E+00 | 2.80E+01 | 6.60E+01 | -- | -- | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | 8.00E-01 | NA | 5.38E-03 | 5.38E-03 | -- | 1.72E-02 | 1.72E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **2.26E+00** | **1.02E+00** | 1.00E+01 | NA | 2.18E-01 | 2.18E-01 | -- | 8.74E+00 | 8.74E+00 | 2.10E+00 | 4.50E+00 | -- | -- | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **2.26E+00** | **1.02E+00** | 1.00E+01 | NA | 4.60E-01 | 4.60E-01 | -- | 1.84E+01 | 1.84E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | 8.00E-01 | NA | 9.09E-03 | 9.10E-03 | -- | 2.91E-02 | 2.91E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 7E-02 | 4E-02 | 7E-02 | 4E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **2.26E+00** | **1.02E+00** | 1.00E+01 | NA | 4.60E-01 | 4.60E-01 | -- | 1.84E+01 | 1.84E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **2.26E+00** | **1.02E+00** | 1.00E+01 | NA | 3.55E-01 | 3.55E-01 | -- | 1.42E+01 | 1.42E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | **4.65E+00** | **8.15E-01** | 8.00E-01 | NA | 8.40E-03 | 8.41E-03 | -- | 2.69E-02 | 2.69E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **2.26E+00** | **1.02E+00** | 1.00E+01 | NA | 3.55E-01 | 3.55E-01 | -- | 1.42E+01 | 1.42E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **7E+00** | **3E+00** | **7E+00** | **3E+00** |
| **GBH - mid** | **tPCB-med** | **2.26E+00** | **1.02E+00** | 1.00E+01 | 1.31E-02 | 8.75E+00 | 8.76E+00 | 5.23E-01 | 3.50E+02 | 3.51E+02 | 2.80E+01 | 6.60E+01 | 2E-02 | 8E-03 | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Mercury** | **4.65E+00** | **8.15E-01** | 8.00E-01 | 2.61E-03 | 1.88E-01 | 1.90E-01 | 8.35E-03 | 6.01E-01 | 6.09E-01 | 4.40E-01 | 8.00E-01 | 2E-02 | 1E-02 | **1E+00** | 8E-01 | **1E+00** | 8E-01 |
| **GBH - high** | **tPCB-high** | **2.26E+00** | **1.02E+00** | 1.00E+01 | 1.31E-02 | 8.75E+00 | 8.76E+00 | 5.23E-01 | 3.50E+02 | 3.51E+02 | 2.10E+00 | 4.50E+00 | 2E-01 | 1E-01 | **2E+02** | **8E+01** | **2E+02** | **8E+01** |
| **Osprey - mid** | **tPCB-med** | **2.26E+00** | **1.02E+00** | 1.00E+01 | NA | 2.58E+00 | 2.58E+00 | -- | 1.03E+02 | 1.03E+02 | 2.80E+01 | 6.60E+01 | -- | -- | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Mercury** | **4.65E+00** | **8.15E-01** | 8.00E-01 | NA | 5.11E-02 | 5.11E-02 | -- | 1.63E-01 | 1.64E-01 | 4.40E-01 | 8.00E-01 | -- | -- | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Osprey - high** | **tPCB-high** | **2.26E+00** | **1.02E+00** | 1.00E+01 | NA | 2.58E+00 | 2.58E+00 | -- | 1.03E+02 | 1.03E+02 | 2.10E+00 | 4.50E+00 | -- | -- | **5E+01** | **2E+01** | **5E+01** | **2E+01** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-156**

**Lower Trophic Level Terrestrial Risk Calculations For Reach C9**

**Anniston PCB Site, Anniston, Alabama**

| Media | Receptor Community | COPC | Soil EPC (mg/kg) | Toxicity Benchmarks[a] (mg/kg) | | Hazard Quotients | |
|---|---|---|---|---|---|---|---|
| | | | | NOAEL | LOAEL | NOAEL | LOAEL |
| Soil - North | **Terrestrial Plants** | **PCB** | 1.61E+00 | 4.00E+01 | NA | 4E-02 | -- |
| | | **Chromium** | 1.44E+01 | 1.00E+00 | NA | **1E+01** | -- |
| | | **Lead** | 1.55E+01 | 1.20E+02 | NA | 1E-01 | -- |
| | | **Mercury** | 1.66E+00 | 3.00E-01 | NA | **6E+00** | -- |
| | | **Vanadium** | 1.22E+01 | 2.00E+00 | NA | **6E+00** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 1.61E+00 | 3.60E+00 | 3.60E+01 | 4E-01 | 4E-02 |
| | | **Chromium** | 1.44E+01 | 4.00E-01 | NA | **4E+01** | -- |
| | | **Lead** | 1.55E+01 | 1.70E+03 | NA | 9E-03 | -- |
| | | **Mercury** | 1.66E+00 | 1.00E-01 | 0.23 | **2E+01** | **7E+00** |
| | | **Vanadium** | 1.22E+01 | NA | NA | -- | -- |
| Soil - South | **Terrestrial Plants** | **PCB** | 3.27E-01 | 4.00E+01 | NA | 8E-03 | -- |
| | | **Chromium** | 1.41E+01 | 1.00E+00 | NA | **1E+01** | -- |
| | | **Lead** | 1.86E+01 | 1.20E+02 | NA | 2E-01 | -- |
| | | **Mercury** | 5.18E-01 | 3.00E-01 | NA | **2E+00** | -- |
| | | **Vanadium** | 2.70E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 3.27E-01 | 3.60E+00 | 3.60E+01 | 9E-02 | 9E-03 |
| | | **Chromium** | 1.41E+01 | 4.00E-01 | NA | **4E+01** | -- |
| | | **Lead** | 1.86E+01 | 1.70E+03 | NA | 1E-02 | -- |
| | | **Mercury** | 5.18E-01 | 1.00E-01 | 0.23 | **5E+00** | **2E+00** |
| | | **Vanadium** | 2.70E+01 | NA | NA | -- | -- |
| Soil - Riparian | **Terrestrial Plants** | **PCB** | 2.27E+00 | 4.00E+01 | NA | 6E-02 | -- |
| | | **Chromium** | 1.44E+01 | 1.00E+00 | NA | **1E+01** | -- |
| | | **Lead** | 1.55E+01 | 1.20E+02 | NA | 1E-01 | -- |
| | | **Mercury** | 1.72E+00 | 3.00E-01 | NA | **6E+00** | -- |
| | | **Vanadium** | 9.70E+00 | 2.00E+00 | NA | **5E+00** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 2.27E+00 | 3.60E+00 | 3.60E+01 | 6E-01 | 6E-02 |
| | | **Chromium** | 1.44E+01 | 4.00E-01 | NA | **4E+01** | -- |
| | | **Lead** | 1.55E+01 | 1.70E+03 | NA | 9E-03 | -- |
| | | **Mercury** | 1.72E+00 | 1.00E-01 | 0.23 | **2E+01** | **7E+00** |
| | | **Vanadium** | 9.70E+00 | NA | NA | -- | -- |

**Notes:**

a = NOAELs represent chronic values and LOAELs represent acute values
COPC = constituent of potential concern
EPC - exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
NA = not applicable
NOAEL = no observed adverse effect level
OU = Operable Unit
PCB = total polychlorinated biphenyl

**Bold indicates hazard quotients greater than 1**

**Table E3-157**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C9**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-157**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C9**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | |
|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Tree Swallow - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Osprey - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Osprey - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Bat** | **tPCB** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Otter** | **tPCB-mink** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |

**Table E3-157**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C9**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-157**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C9**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 3.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 3.43E-02 | 3.43E-02 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.14E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 1.14E+00 | 1.16E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 6.08E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 6.08E+00 | 6.09E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 1.66E-01 | 1.68E-01 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.18E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 1.18E-01 | 1.32E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.62E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 2.62E-02 | 2.63E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 3.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 3.11E-01 | 3.15E-01 | 3.44E-01 | 7.00E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 3.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 3.43E-02 | 3.43E-02 | 4.33E-02 | 1.30E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 1.30E-02 | 0.00E+00 | 2.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.13E-03 | 2.66E-05 | 2.11E+00 | 2.11E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 7.21E+00 | 0.00E+00 | 7.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.85E+00 | 2.06E-02 | 1.73E+01 | 1.73E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 7.26E-01 | 0.00E+00 | 7.26E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.40E-01 | 3.06E-03 | 2.19E+00 | 2.20E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 1.03E+00 | 0.00E+00 | 1.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.98E-01 | 2.07E-03 | 2.36E+00 | 2.36E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 1.70E+00 | 0.00E+00 | 1.70E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.66E-01 | 1.14E-02 | 4.16E+00 | 4.17E+00 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 2.65E-02 | 0.00E+00 | 7.32E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E-02 | 7.31E-05 | 1.26E-01 | 1.26E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 6.30E-01 | 0.00E+00 | 6.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E-01 | 2.91E-03 | 1.78E+00 | 1.78E+00 | 3.44E-01 | 7.00E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 1.30E-02 | 0.00E+00 | 2.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.13E-03 | 2.66E-05 | 2.11E+00 | 2.11E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.72E-01 | 0.00E+00 | 0.00E+00 | 8.00E-04 | 1.72E-05 | 7.73E-01 | 7.73E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E+01 | 0.00E+00 | 0.00E+00 | 2.80E-01 | 1.33E-02 | 1.34E+01 | 1.34E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.16E+00 | 0.00E+00 | 0.00E+00 | 7.28E-02 | 1.98E-03 | 2.23E+00 | 2.23E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 2.93E-02 | 1.34E-03 | 3.07E+00 | 3.07E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.20E-02 | 0.00E+00 | 0.00E+00 | 7.53E-02 | 7.40E-03 | 1.57E-01 | 1.65E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.94E-02 | 0.00E+00 | 0.00E+00 | 2.59E-03 | 4.73E-05 | 6.20E-02 | 6.20E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 0.00E+00 | 5.11E-02 | 1.88E-03 | 4.61E-01 | 4.63E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.72E-01 | 0.00E+00 | 0.00E+00 | 8.00E-04 | 1.72E-05 | 7.73E-01 | 7.73E-01 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.44E-03 | 0.00E+00 | 0.00E+00 | 5.87E-01 | 0.00E+00 | 4.37E-03 | 8.00E-04 | 1.72E-05 | 5.96E-01 | 5.96E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.51E+01 | 0.00E+00 | 0.00E+00 | 9.98E+00 | 0.00E+00 | 8.22E-01 | 2.80E-01 | 1.33E-02 | 2.62E+01 | 2.62E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.64E+00 | 0.00E+00 | 2.01E-01 | 7.28E-02 | 1.98E-03 | 1.97E+00 | 1.97E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 2.86E-02 | 2.93E-02 | 1.34E-03 | 2.97E+00 | 2.97E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.27E-02 | 0.00E+00 | 0.00E+00 | 6.23E-02 | 0.00E+00 | 7.41E-02 | 7.53E-02 | 7.40E-03 | 3.04E-01 | 3.12E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.38E-03 | 0.00E+00 | 0.00E+00 | 4.51E-02 | 0.00E+00 | 4.13E-03 | 2.59E-03 | 4.73E-05 | 5.72E-02 | 5.73E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.09E-02 | 0.00E+00 | 0.00E+00 | 3.11E-01 | 0.00E+00 | 2.30E-02 | 5.11E-02 | 1.88E-03 | 4.76E-01 | 4.78E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.44E-03 | 0.00E+00 | 0.00E+00 | 5.87E-01 | 0.00E+00 | 4.37E-03 | 8.00E-04 | 1.72E-05 | 5.96E-01 | 5.96E-01 | 4.33E-02 | 1.30E-01 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 4.02E-01 | 4.02E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 1.85E+00 | 1.86E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.85E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 2.85E-01 | 2.86E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.88E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 4.88E-02 | 4.94E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.32E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 4.32E-02 | 4.67E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 3.22E-02 | 3.22E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.58E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 5.58E-02 | 5.66E-02 | 3.44E-01 | 7.00E-01 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 4.02E-01 | 4.02E-01 | 4.33E-02 | 1.30E-01 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 2.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 2.53E-02 | 2.53E-02 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 8.39E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 8.39E-01 | 8.58E-01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 4.49E+00 | 4.49E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 1.22E-01 | 1.24E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 8.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 8.70E-02 | 9.78E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.94E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 1.94E-02 | 1.94E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 2.30E-01 | 2.32E-01 | 4.16E+00 | 8.31E+00 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.52E-02 | 1.21E-01 | 5.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 2.67E-01 | 2.67E-01 | 5.00E-02 | 1.00E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.52E-02 | 1.21E-01 | 5.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 2.67E-01 | 2.67E-01 | na | 5.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.39E-01 | 1.59E-01 | 8.72E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 1.47E+00 | 1.48E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.75E-02 | 2.83E-02 | 1.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 2.39E-01 | 2.40E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-02 | 4.29E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.18E-01 | 2.19E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-02 | 4.67E-03 | 5.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 2.03E-02 | 2.58E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-03 | 9.98E-03 | 3.94E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 2.15E-02 | 2.16E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.32E-02 | 3.47E-03 | 2.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 4.39E-02 | 4.53E-02 | 4.16E+00 | 8.31E+00 |

**Table E3-157**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C9**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 7E-02 | 2E-02 | 7E-02 | 2E-02 |
| | **Barium** | 5E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 7E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | 9E-01 | 4E-01 | 9E-01 | 4E-01 |
| **Tree Swallow - high** | **tPCB-high** | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Chromium** | 8E-01 | 8E-01 | 8E-01 | 8E-01 |
| | **Cobalt** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Barium** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Chromium** | 8E-01 | 8E-01 | 8E-01 | 8E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Vanadium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Chromium** | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 2E-01 | 9E-02 | 2E-01 | 1E-01 |
| | **Mercury** | **3E+00** | 8E-01 | **3E+00** | 8E-01 |
| | **Vanadium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Osprey - mid** | **tPCB-med** | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Barium** | 9E-02 | 4E-02 | 9E-02 | 4E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 6E-03 | 6E-03 | 6E-03 | 6E-03 |
| | **Lead** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| **Osprey - high** | **tPCB-high** | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| **Bat** | **tPCB** | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Barium** | 2E-02 | 7E-03 | 2E-02 | 7E-03 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Mercury** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Otter** | **tPCB-mink** | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Otter (Alternative TRV)** | **tPCB-mink** | **--** | **5E+00** | **--** | **5E+00** |
| | **Barium** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 1E-01 | 8E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4E-03 | 2E-03 | 5E-03 | 3E-03 |
| | **Mercury** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 1E-02 | 5E-03 | 1E-02 | 5E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-158**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **1.61E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.55E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **1.61E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.61E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.55E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **1.61E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.61E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.55E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.61E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **1.61E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.55E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **1.61E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.55E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **1.61E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.55E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **1.61E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.55E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **1.61E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.55E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-158**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioacccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.17E-02 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-02 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.83E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.83E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E-01 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.17E-02 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.09E-01 | 4.61E-03 | 0.00E+00 | 1.18E-01 | 0.00E+00 | 3.45E-02 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 9.93E-03 | 1.82E-03 | 0.00E+00 | 4.81E-02 | 0.00E+00 | 3.56E-02 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.54E-01 | 1.24E-01 | 0.00E+00 | 2.22E-01 | 0.00E+00 | 3.08E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.81E-03 | 2.15E-03 | 0.00E+00 | 1.73E-01 | 0.00E+00 | 3.32E-01 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.03E-02 | 1.68E-03 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 2.61E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.09E-01 | 4.61E-03 | 0.00E+00 | 1.18E-01 | 0.00E+00 | 3.45E-02 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.01E-02 | 3.01E-02 | 2.57E-01 | 5.31E-01 | 0.00E+00 | 5.50E-02 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.83E-03 | 1.19E-02 | 1.04E-01 | 2.16E-01 | 0.00E+00 | 5.68E-02 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.84E-02 | 8.09E-01 | 4.83E-01 | 9.98E-01 | 0.00E+00 | 4.91E-01 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.07E-03 | 1.40E-02 | 3.75E-01 | 7.75E-01 | 0.00E+00 | 5.29E-01 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.90E-03 | 1.10E-02 | 2.80E-01 | 5.78E-01 | 0.00E+00 | 4.16E-01 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.01E-02 | 3.01E-02 | 2.57E-01 | 5.31E-01 | 0.00E+00 | 5.50E-02 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.41E-02 | 8.94E-03 | 3.33E-01 | 2.29E-01 | 0.00E+00 | 6.19E-03 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.28E-03 | 3.53E-03 | 1.35E-01 | 9.32E-02 | 0.00E+00 | 6.38E-03 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.99E-02 | 2.41E-01 | 6.25E-01 | 4.31E-01 | 0.00E+00 | 5.52E-02 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 7.46E-04 | 4.16E-03 | 4.85E-01 | 3.34E-01 | 0.00E+00 | 5.94E-02 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.33E-03 | 3.26E-03 | 3.62E-01 | 2.49E-01 | 0.00E+00 | 4.68E-02 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.34E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.73E-04 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.22E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.88E-04 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.90E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.22E-03 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 7.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.54E-03 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.27E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.58E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E-01 | 4.12E-03 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.37E-02 | 4.25E-03 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-01 | 3.68E-02 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.99E-02 | 3.96E-02 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 3.11E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.90E-03 | 0.00E+00 | 1.06E-02 | 0.00E+00 | 8.04E-02 | 1.71E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.36E-04 | 0.00E+00 | 4.33E-03 | 0.00E+00 | 6.90E-03 | 1.76E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.33E-03 | 0.00E+00 | 2.00E-02 | 0.00E+00 | 1.29E-01 | 1.53E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.13E-04 | 0.00E+00 | 1.55E-02 | 0.00E+00 | 4.53E-02 | 1.64E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.58E-04 | 0.00E+00 | 1.16E-02 | 0.00E+00 | 1.87E-01 | 1.29E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.73E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.67E-02 | 1.71E-03 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.58E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.29E-03 | 1.76E-03 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.45E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.55E-01 | 1.53E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 9.21E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-02 | 1.64E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.64E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 1.29E-02 | 1.45E-03 |

**Table E3-158**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 1.61E-01 | 1.61E-01 | 4.67E-01 | 1.40E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 4.44E-02 | 4.45E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Chromium** | 4.65E-01 | 4.68E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3.11E-01 | 3.19E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 2.52E-01 | 2.54E-01 | 3.44E-01 | 7.00E-01 | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.61E-01 | 1.61E-01 | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Blue Jay - mid** | **tPCB-med** | 2.67E-01 | 2.67E-01 | 4.67E-01 | 1.40E+00 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Mercury** | 9.55E-02 | 9.55E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Chromium** | 8.09E-01 | 8.11E-01 | 2.66E+00 | 2.80E+00 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 5.12E-01 | 5.21E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 4.02E-01 | 4.04E-01 | 3.44E-01 | 7.00E-01 | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **Blue Jay - high** | **tPCB-high** | 2.67E-01 | 2.67E-01 | 4.33E-02 | 1.30E-01 | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 8.94E-01 | 8.94E-01 | 4.67E-01 | 1.40E+00 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | 3.91E-01 | 3.91E-01 | 2.27E-02 | 6.80E-02 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Chromium** | 2.81E+00 | 2.82E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | 1E+00 | **1E+00** | 1E+00 |
| | **Lead** | 1.69E+00 | 1.71E+00 | 1.63E+00 | 3.26E+00 | 1E+00 | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | 1.29E+00 | 1.29E+00 | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 8.94E-01 | 8.94E-01 | 4.33E-02 | 1.30E-01 | **2E+01** | **7E+00** | **2E+01** | **7E+00** |
| **Shrew - 1** | **tPCB** | 5.91E-01 | 5.91E-01 | 2.30E-01 | 6.80E-01 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Mercury** | 2.40E-01 | 2.40E-01 | 7.50E-02 | 1.50E-01 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Chromium** | 1.37E+00 | 1.37E+00 | 2.40E+00 | 2.82E+00 | 6E-01 | 5E-01 | 6E-01 | 5E-01 |
| | **Lead** | 8.84E-01 | 8.94E-01 | 4.70E+00 | 8.90E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 6.62E-01 | 6.65E-01 | 4.16E+00 | 8.31E+00 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| **Deer** | **tPCB** | 1.39E-02 | 1.39E-02 | 2.30E-01 | 6.80E-01 | 6E-02 | 2E-02 | 6E-02 | 2E-02 |
| | **Mercury** | 1.71E-03 | 1.74E-03 | 7.50E-02 | 1.50E-01 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Chromium** | 2.32E-02 | 2.44E-02 | 2.40E+00 | 2.82E+00 | 1E-02 | 8E-03 | 1E-02 | 9E-03 |
| | **Lead** | 5.26E-03 | 9.70E-03 | 4.70E+00 | 8.90E+00 | 1E-03 | 6E-04 | 2E-03 | 1E-03 |
| | **Vanadium** | 4.84E-03 | 5.97E-03 | 4.16E+00 | 8.31E+00 | 1E-03 | 6E-04 | 1E-03 | 7E-04 |
| **Weasel** | **tPCB** | 1.64E-01 | 1.64E-01 | 2.30E-01 | 6.80E-01 | 7E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Mercury** | 1.79E-02 | 1.80E-02 | 7.50E-02 | 1.50E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 2.92E-01 | 2.94E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1.29E-01 | 1.37E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 3E-02 | 2E-02 |
| | **Vanadium** | 4.02E-01 | 4.04E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 9.87E-02 | 9.87E-02 | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | 1.35E-02 | 1.36E-02 | 7.50E-02 | 1.50E-01 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 1.72E-01 | 1.74E-01 | 2.40E+00 | 2.82E+00 | 7E-02 | 6E-02 | 7E-02 | 6E-02 |
| | **Lead** | 7.76E-02 | 8.33E-02 | 4.70E+00 | 8.90E+00 | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| | **Vanadium** | 2.12E-01 | 2.13E-01 | 4.16E+00 | 8.31E+00 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 1.00E-01 | 1.00E-01 | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | 1.02E-02 | 1.03E-02 | 7.50E-02 | 1.50E-01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 1.73E-01 | 1.74E-01 | 2.40E+00 | 2.82E+00 | 7E-02 | 6E-02 | 7E-02 | 6E-02 |
| | **Lead** | 7.10E-02 | 7.67E-02 | 4.70E+00 | 8.90E+00 | 2E-02 | 8E-03 | 2E-02 | 9E-03 |
| | **Vanadium** | 2.38E-01 | 2.39E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-159**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects |
| **Mourning Dove - mid** | **tPCB-med** | **3.27E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.86E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.10E-03 | 8.21E-03 |
| **Mourning Dove - high** | **tPCB-high** | **3.27E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Blue Jay - mid** | **tPCB-med** | **3.27E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.86E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Blue Jay - high** | **tPCB-high** | **3.27E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **3.27E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.86E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | 7.10E-03 | 8.21E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **3.27E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 1.40E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| **Shrew - 1** | **tPCB** | **3.27E-01** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.86E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 3.00E-02 | 7.10E-03 | 8.21E-03 |
| **Deer** | **tPCB** | **3.27E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.86E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 7.10E-03 | 8.21E-03 |
| **Weasel** | **tPCB** | **3.27E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.86E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 1** | **tPCB** | **3.27E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.86E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |
| **Fox - 2** | **tPCB** | **3.27E-01** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.00E-02 | 6.51E-02 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.99E-02 | Measured Tissue = 7.38 mg/kg |
| | **Lead** | **1.86E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.14E-03 | 8.24E-03 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 7.10E-03 | 8.21E-03 |

**Table E3-159**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water |
| **Mourning Dove - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.42E-03 | 1.88E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.66E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-02 | 5.16E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.79E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.77E-01 | 2.16E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.25E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.65E-01 | 8.08E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.30E-01 | 2.05E-03 |
| **Mourning Dove - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.42E-03 | 1.88E-05 |
| **Blue Jay - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.35E-02 | 9.35E-04 | 0.00E+00 | 1.66E-02 | 0.00E+00 | 7.00E-03 | 2.04E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.09E-03 | 5.67E-04 | 0.00E+00 | 2.30E-02 | 0.00E+00 | 1.11E-02 | 5.59E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.51E-01 | 1.24E-01 | 0.00E+00 | 2.18E-01 | 0.00E+00 | 3.02E-01 | 2.34E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 6.97E-03 | 2.58E-03 | 0.00E+00 | 2.07E-01 | 0.00E+00 | 3.98E-01 | 8.75E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.29E-02 | 3.73E-03 | 0.00E+00 | 2.85E-01 | 0.00E+00 | 5.78E-01 | 2.22E-03 |
| **Blue Jay - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 3.35E-02 | 9.35E-04 | 0.00E+00 | 1.66E-02 | 0.00E+00 | 7.00E-03 | 2.04E-05 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 6.16E-03 | 6.10E-03 | 3.60E-02 | 7.44E-02 | 0.00E+00 | 1.12E-02 | 4.23E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.68E-04 | 3.70E-03 | 4.99E-02 | 1.03E-01 | 0.00E+00 | 1.77E-02 | 1.16E-04 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.78E-02 | 8.09E-01 | 4.73E-01 | 9.77E-01 | 0.00E+00 | 4.81E-01 | 4.86E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.28E-03 | 1.68E-02 | 4.50E-01 | 9.30E-01 | 0.00E+00 | 6.35E-01 | 1.82E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 4.21E-03 | 2.43E-02 | 6.19E-01 | 1.28E+00 | 0.00E+00 | 9.21E-01 | 4.62E-03 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 6.16E-03 | 6.10E-03 | 3.60E-02 | 7.44E-02 | 0.00E+00 | 1.12E-02 | 4.23E-05 |
| **Shrew - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 4.31E-03 | 1.81E-03 | 4.66E-02 | 3.21E-02 | 0.00E+00 | 1.25E-03 | 2.35E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.97E-04 | 1.10E-03 | 6.46E-02 | 4.45E-02 | 0.00E+00 | 1.99E-03 | 6.45E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.94E-02 | 2.41E-01 | 6.12E-01 | 4.22E-01 | 0.00E+00 | 5.41E-02 | 2.70E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 8.96E-04 | 5.00E-03 | 5.82E-01 | 4.01E-01 | 0.00E+00 | 7.13E-02 | 1.01E-02 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.94E-03 | 7.22E-03 | 8.01E-01 | 5.52E-01 | 0.00E+00 | 1.04E-01 | 2.57E-03 |
| **Deer** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 4.11E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.58E-05 | 1.03E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.80E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E-04 | 2.84E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.13E-03 | 1.19E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.56E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 4.44E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.91E-03 | 1.13E-03 |
| **Weasel** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.69E-02 | 8.35E-04 | 1.72E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.26E-03 | 1.32E-03 | 4.73E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E-01 | 3.60E-02 | 1.98E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-01 | 4.75E-02 | 7.40E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 6.89E-02 | 1.88E-03 |
| **Fox - 1** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.81E-03 | 0.00E+00 | 1.49E-03 | 0.00E+00 | 3.37E-02 | 3.47E-04 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.67E-04 | 0.00E+00 | 2.07E-03 | 0.00E+00 | 2.15E-03 | 5.49E-04 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.16E-03 | 0.00E+00 | 1.96E-02 | 0.00E+00 | 1.26E-01 | 1.49E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.76E-04 | 0.00E+00 | 1.86E-02 | 0.00E+00 | 5.44E-02 | 1.97E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.23E-03 | 0.00E+00 | 2.56E-02 | 0.00E+00 | 1.87E-01 | 2.86E-02 | 1.45E-03 |
| **Fox - 2** | **tPCB** | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 5.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.06E-02 | 3.47E-04 | 1.33E-05 |
| | **Mercury** | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.90E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.58E-03 | 5.49E-04 | 3.66E-05 |
| | **Chromium** | 9.17E-01 | 2.99E-01 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.40E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E-01 | 1.49E-02 | 1.53E-03 |
| | **Lead** | 6.62E-01 | 9.77E-02 | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.11E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.54E-02 | 1.97E-02 | 5.72E-03 |
| | **Vanadium** | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.63E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.86E-02 | 1.45E-03 |

**Table E3-159**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 4.61E-02 | 4.61E-02 | 4.67E-01 | 1.40E+00 | 1E-01 | 3E-02 | 1E-01 | 3E-02 |
| | **Mercury** | 1.38E-02 | 1.39E-02 | 2.27E-02 | 6.80E-02 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Chromium** | 4.56E-01 | 4.58E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3.73E-01 | 3.81E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 5.57E-01 | 5.59E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Mourning Dove - high** | **tPCB-high** | 4.61E-02 | 4.61E-02 | 4.33E-02 | 1.30E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| **Blue Jay - mid** | **tPCB-med** | 5.80E-02 | 5.80E-02 | 4.67E-01 | 1.40E+00 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Mercury** | 3.77E-02 | 3.78E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Chromium** | 7.95E-01 | 7.97E-01 | 2.66E+00 | 2.80E+00 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 6.15E-01 | 6.24E-01 | 1.63E+00 | 3.26E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 8.89E-01 | 8.92E-01 | 3.44E-01 | 7.00E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | 5.80E-02 | 5.80E-02 | 4.33E-02 | 1.30E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 1.34E-01 | 1.34E-01 | 4.67E-01 | 1.40E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 1.75E-01 | 1.75E-01 | 2.27E-02 | 6.80E-02 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Chromium** | 2.77E+00 | 2.77E+00 | 2.66E+00 | 2.80E+00 | 1E+00 | 1E+00 | 1E+00 | 1E+00 |
| | **Lead** | 2.03E+00 | 2.05E+00 | 1.63E+00 | 3.26E+00 | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Vanadium** | 2.85E+00 | 2.85E+00 | 3.44E-01 | 7.00E-01 | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 1.34E-01 | 1.34E-01 | 4.33E-02 | 1.30E-01 | **3E+00** | 1E+00 | **3E+00** | 1E+00 |
| **Shrew - 1** | **tPCB** | 8.60E-02 | 8.61E-02 | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | 1.13E-01 | 1.13E-01 | 7.50E-02 | 1.50E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 1.35E+00 | 1.35E+00 | 2.40E+00 | 2.82E+00 | 6E-01 | 5E-01 | 6E-01 | 5E-01 |
| | **Lead** | 1.06E+00 | 1.07E+00 | 4.70E+00 | 8.90E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 1.47E+00 | 1.47E+00 | 4.16E+00 | 8.31E+00 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Deer** | **tPCB** | 4.21E-03 | 4.22E-03 | 2.30E-01 | 6.80E-01 | 2E-02 | 6E-03 | 2E-02 | 6E-03 |
| | **Mercury** | 5.31E-04 | 5.60E-04 | 7.50E-02 | 1.50E-01 | 7E-03 | 4E-03 | 7E-03 | 4E-03 |
| | **Chromium** | 2.27E-02 | 2.39E-02 | 2.40E+00 | 2.82E+00 | 9E-03 | 8E-03 | 1E-02 | 8E-03 |
| | **Lead** | 6.31E-03 | 1.07E-02 | 4.70E+00 | 8.90E+00 | 1E-03 | 7E-04 | 2E-03 | 1E-03 |
| | **Vanadium** | 1.07E-02 | 1.19E-02 | 4.16E+00 | 8.31E+00 | 3E-03 | 1E-03 | 3E-03 | 1E-03 |
| **Weasel** | **tPCB** | 6.77E-02 | 6.78E-02 | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 5.58E-03 | 5.63E-03 | 7.50E-02 | 1.50E-01 | 7E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Chromium** | 2.86E-01 | 2.88E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1.55E-01 | 1.63E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Vanadium** | 4.40E-01 | 4.42E-01 | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 3.74E-02 | 3.74E-02 | 2.30E-01 | 6.80E-01 | 2E-01 | 5E-02 | 2E-01 | 5E-02 |
| | **Mercury** | 4.93E-03 | 4.97E-03 | 7.50E-02 | 1.50E-01 | 7E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 1.69E-01 | 1.70E-01 | 2.40E+00 | 2.82E+00 | 7E-02 | 6E-02 | 7E-02 | 6E-02 |
| | **Lead** | 9.31E-02 | 9.88E-02 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Vanadium** | 2.42E-01 | 2.44E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 4.14E-02 | 4.14E-02 | 2.30E-01 | 6.80E-01 | 2E-01 | 6E-02 | 2E-01 | 6E-02 |
| | **Mercury** | 3.18E-03 | 3.22E-03 | 7.50E-02 | 1.50E-01 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 1.69E-01 | 1.71E-01 | 2.40E+00 | 2.82E+00 | 7E-02 | 6E-02 | 7E-02 | 6E-02 |
| | **Lead** | 8.52E-02 | 9.09E-02 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Vanadium** | 2.54E-01 | 2.55E-01 | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-160**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.61E+00** | **2.54E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.66E+00** | **8.22E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.22E+01** | **1.62E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.61E+00** | **2.54E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.61E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.66E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.22E+01** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.61E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.61E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.66E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.22E+01** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **1.61E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.66E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.22E+01** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 |

**Table E3-160**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-160**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - North**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-160**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-160**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.45E+01 | 2.18E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.45E+01 | 2.18E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 2.45E+01 | 2.18E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 2.45E+01 | 2.18E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 2.45E+01 | 2.18E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 2.45E+01 | 2.18E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-160**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.43E-03 | 0.00E+00 | 0.00E+00 | 2.57E-01 | 0.00E+00 | 3.01E-02 | 0.00E+00 | 4.84E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 2.87E+00 | 0.00E+00 | 0.00E+00 | 1.72E+00 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 5.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.43E-01 | 0.00E+00 | 0.00E+00 | 4.83E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.60E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 1.73E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 6.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 2.66E-01 | 0.00E+00 | 0.00E+00 | 3.75E-01 | 0.00E+00 | 1.40E-02 | 0.00E+00 | 1.19E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.44E-03 | 0.00E+00 | 0.00E+00 | 1.04E-01 | 0.00E+00 | 1.19E-02 | 0.00E+00 | 1.33E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.17E-01 | 0.00E+00 | 0.00E+00 | 2.80E-01 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 7.67E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.43E-03 | 0.00E+00 | 0.00E+00 | 2.57E-01 | 0.00E+00 | 3.01E-02 | 0.00E+00 | 4.84E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.46E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.08E-02 | 0.00E+00 | 1.89E-02 | 0.00E+00 | 7.36E-04 | 1.89E-02 | 0.00E+00 | 3.82E-03 | 0.00E+00 | 0.00E+00 | 5.17E-04 | 3.36E-03 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.92E-01 | 0.00E+00 | 1.26E-01 | 0.00E+00 | 6.05E-03 | 1.26E-01 | 0.00E+00 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 1.76E+00 | 1.55E-02 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 1.53E-02 | 0.00E+00 | 3.54E-02 | 0.00E+00 | 1.98E-02 | 3.54E-02 | 0.00E+00 | 6.12E-03 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 2.38E-03 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 3.69E-03 | 0.00E+00 | 1.27E-02 | 0.00E+00 | 4.95E-02 | 1.27E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 4.07E-04 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 5.74E-04 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 3.43E-04 | 2.75E-02 | 0.00E+00 | 2.15E-03 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 3.61E-04 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 9.82E-04 | 0.00E+00 | 7.67E-03 | 0.00E+00 | 2.90E-04 | 7.67E-03 | 0.00E+00 | 3.28E-04 | 0.00E+00 | 0.00E+00 | 6.26E-04 | 2.69E-04 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.02E-03 | 0.00E+00 | 2.05E-02 | 0.00E+00 | 2.69E-04 | 2.05E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 1.06E-02 | 4.66E-04 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 1.99E-02 | 0.00E+00 | 3.68E-01 | 0.00E+00 | 6.13E-03 | 1.57E-01 | 0.00E+00 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 1.09E+00 | 0.00E+00 | 2.47E+00 | 0.00E+00 | 5.05E-02 | 1.05E+00 | 0.00E+00 | 7.75E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.81E-02 | 0.00E+00 | 6.92E-01 | 0.00E+00 | 1.65E-01 | 2.95E-01 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 6.80E-03 | 0.00E+00 | 2.47E-01 | 0.00E+00 | 4.13E-01 | 1.06E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.06E-03 | 0.00E+00 | 5.37E-01 | 0.00E+00 | 2.86E-03 | 2.29E-01 | 0.00E+00 | 9.68E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.81E-03 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 2.42E-03 | 6.39E-02 | 0.00E+00 | 1.47E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.88E-03 | 0.00E+00 | 4.01E-01 | 0.00E+00 | 2.24E-03 | 1.71E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-160**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - North**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.50E-02 | 0.00E+00 | 4.23E-05 | 3.42E-01 | 4.98E-02 | 3.92E-01 | 3.92E-01 | 4.67E-01 | 1.40E+00 | 7E-01 | 2E-01 | 1E-01 | 4E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E+00 | 0.00E+00 | 3.27E-02 | 3.94E+00 | 8.36E+00 | 1.23E+01 | 1.23E+01 | 2.08E+01 | 4.17E+01 | 2E-01 | 9E-02 | 4E-01 | 2E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.91E-01 | 0.00E+00 | 4.86E-03 | 1.78E+00 | 1.74E+00 | 3.53E+00 | 3.53E+00 | 2.66E+00 | 2.80E+00 | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.88E-01 | 0.00E+00 | 3.29E-03 | 2.38E+00 | 1.36E+00 | 3.75E+00 | 3.75E+00 | 7.61E+00 | 7.80E+00 | 3E-01 | 3E-01 | 2E-01 | 2E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.29E-01 | 0.00E+00 | 1.82E-02 | 9.18E-01 | 1.46E+00 | 2.38E+00 | 2.40E+00 | 1.63E+00 | 3.26E+00 | 6E-01 | 3E-01 | 9E-01 | 4E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.68E-02 | 0.00E+00 | 1.16E-04 | 1.73E-01 | 1.34E-01 | 3.08E-01 | 3.08E-01 | 2.27E-02 | 6.80E-02 | **8E+00** | **3E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.16E-01 | 0.00E+00 | 4.62E-03 | 7.07E-01 | 8.84E-01 | 1.59E+00 | 1.60E+00 | 3.44E-01 | 7.00E-01 | **2E+00** | 1E+00 | **3E+00** | **1E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.50E-02 | 0.00E+00 | 4.23E-05 | 3.42E-01 | 4.98E-02 | 3.92E-01 | 3.92E-01 | 4.33E-02 | 1.30E-01 | **8E+00** | **3E+00** | **1E+00** | 4E-01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 6.49E-02 | 0.00E+00 | 7.37E-03 | 1.16E-03 | 8.93E-06 | 1.95E-01 | 6.60E-02 | 2.61E-01 | 2.61E-01 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | 1E-01 | 5E-02 |
| | **Barium** | 0.00E+00 | 2.46E-01 | 0.00E+00 | 2.63E-01 | 4.06E-01 | 6.90E-03 | 1.11E+00 | 6.51E-01 | 1.76E+00 | 1.77E+00 | 2.08E+01 | 4.17E+01 | 5E-02 | 3E-02 | 3E-02 | 2E-02 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 6.58E-02 | 1.06E-01 | 1.03E-03 | 3.66E-01 | 1.99E-01 | 5.65E-01 | 5.67E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 7E-02 | 7E-02 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 2.51E-02 | 4.25E-02 | 6.95E-04 | 1.11E+00 | 2.77E-01 | 1.39E+00 | 1.39E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 4E-02 | 4E-02 |
| | **Lead** | 0.00E+00 | 2.22E-02 | 0.00E+00 | 7.08E-02 | 1.09E-01 | 3.84E-03 | 1.76E-01 | 1.31E-01 | 3.08E-01 | 3.12E-01 | 1.63E+00 | 3.26E+00 | 1E-01 | 5E-02 | 8E-02 | 4E-02 |
| | **Mercury** | 0.00E+00 | 1.12E-02 | 0.00E+00 | 7.60E-03 | 3.76E-03 | 2.45E-05 | 2.37E-02 | 1.50E-02 | 3.86E-02 | 3.87E-02 | 2.27E-02 | 6.80E-02 | 1E+00 | 3E-01 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 5.57E-02 | 7.40E-02 | 9.75E-04 | 4.92E-01 | 1.68E-01 | 6.60E-01 | 6.61E-01 | 3.44E-01 | 7.00E-01 | **1E+00** | 7E-01 | 5E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 6.49E-02 | 0.00E+00 | 7.37E-03 | 1.16E-03 | 8.93E-06 | 1.95E-01 | 6.60E-02 | 2.61E-01 | 2.61E-01 | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **2E+00** | 5E-01 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 3.34E-03 | 4.46E-04 | 4.07E-03 | 0.00E+00 | 1.30E-05 | 5.72E-02 | 7.66E-03 | 6.48E-02 | 6.48E-02 | 2.30E-01 | 6.80E-01 | 2E-01 | 8E-02 | 3E-02 | 1E-02 |
| | **Barium** | 0.00E+00 | 1.26E-02 | 8.39E-02 | 1.45E-01 | 0.00E+00 | 1.00E-02 | 1.01E+00 | 1.87E+00 | 2.88E+00 | 2.89E+00 | 5.18E+01 | 1.21E+02 | 2E-02 | 8E-03 | 4E-02 | 2E-02 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 2.05E-02 | 3.63E-02 | 0.00E+00 | 1.49E-03 | 1.48E-01 | 3.39E-02 | 1.82E-01 | 1.84E-01 | 2.40E+00 | 2.82E+00 | 6E-02 | 5E-02 | 1E-02 | 1E-02 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 2.92E-03 | 1.39E-02 | 0.00E+00 | 1.01E-03 | 1.15E-01 | 8.52E-02 | 2.00E-01 | 2.01E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 9E-03 |
| | **Lead** | 0.00E+00 | 1.14E-03 | 7.56E-03 | 3.91E-02 | 0.00E+00 | 5.59E-03 | 9.72E-02 | 1.99E-02 | 1.17E-01 | 1.23E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 4E-03 | 2E-03 |
| | **Mercury** | 0.00E+00 | 5.77E-04 | 4.22E-04 | 4.20E-03 | 0.00E+00 | 3.57E-05 | 2.11E-02 | 1.89E-03 | 2.30E-02 | 2.31E-02 | 7.50E-02 | 1.50E-01 | 3E-01 | 1E-01 | 3E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 2.35E-03 | 3.08E-02 | 0.00E+00 | 1.42E-03 | 8.20E-02 | 1.82E-02 | 1.00E-01 | 1.02E-01 | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 4E-03 | 2E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 7.96E-03 | 7.08E-04 | 6.19E-03 | 9.73E-04 | 2.35E-05 | 5.75E-01 | 9.64E-03 | 5.85E-01 | 5.85E-01 | 2.30E-01 | 6.80E-01 | **3E+00** | 8E-01 | 4E-02 | 1E-02 |
| | **Barium** | 0.00E+00 | 3.01E-02 | 1.33E-01 | 2.21E-01 | 3.41E-01 | 1.82E-02 | 4.96E+00 | 5.04E-01 | 5.47E+00 | 5.48E+00 | 5.18E+01 | 1.21E+02 | 1E-01 | 4E-02 | 1E-02 | 4E-03 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 3.26E-02 | 5.52E-02 | 8.86E-02 | 2.70E-03 | 1.26E+00 | 1.33E-01 | 1.40E+00 | 1.40E+00 | 2.40E+00 | 2.82E+00 | 5E-01 | 4E-01 | 6E-02 | 5E-02 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 4.64E-03 | 2.11E-02 | 3.57E-02 | 1.83E-03 | 8.93E-01 | 6.91E-02 | 9.62E-01 | 9.64E-01 | 7.33E+00 | 1.00E+01 | 1E-01 | 9E-02 | 9E-03 | 7E-03 |
| | **Lead** | 0.00E+00 | 2.72E-03 | 1.20E-02 | 5.94E-02 | 9.16E-02 | 1.01E-02 | 8.40E-01 | 1.06E-01 | 9.46E-01 | 9.56E-01 | 4.70E+00 | 8.90E+00 | 2E-01 | 9E-02 | 2E-02 | 1E-02 |
| | **Mercury** | 0.00E+00 | 1.38E-03 | 6.69E-04 | 6.38E-03 | 3.15E-03 | 6.45E-05 | 2.26E-01 | 5.20E-03 | 2.31E-01 | 2.31E-01 | 7.50E-02 | 1.50E-01 | **3E+00** | **2E+00** | 7E-02 | 3E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 3.74E-03 | 4.68E-02 | 6.21E-02 | 2.57E-03 | 6.63E-01 | 7.74E-02 | 7.40E-01 | 7.43E-01 | 4.16E+00 | 8.31E+00 | 2E-01 | 8E-02 | 2E-02 | 9E-03 |

**Table E3-160**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| | **Barium** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Mercury** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Vanadium** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| **Hawk - mid** | **tPCB-med** | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 2E-01 | 9E-02 | 2E-01 | 1E-01 |
| | **Mercury** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Vanadium** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| **Hawk - high** | **tPCB-high** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| **Raccoon - 1** | **tPCB** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Barium** | 6E-02 | 2E-02 | 6E-02 | 2E-02 |
| | **Chromium** | 8E-02 | 6E-02 | 8E-02 | 7E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| **Shrew - 2** | **tPCB** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 6E-01 | 5E-01 | 6E-01 | 5E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| | **Vanadium** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-161**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **3.27E-01** | **2.54E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.16E+02** | **8.88E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.41E+01** | **2.31E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.90E+00** | **9.30E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.86E+01** | **2.39E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **5.18E-01** | **8.22E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.70E+01** | **1.62E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **3.27E-01** | **2.54E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **3.27E-01** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **1.16E+02** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **1.41E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **7.90E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **1.86E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **5.18E-01** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **2.70E+01** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **3.27E-01** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **3.27E-01** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **1.16E+02** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **1.41E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **7.90E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **1.86E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **5.18E-01** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **2.70E+01** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **3.27E-01** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **1.16E+02** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **1.41E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **7.90E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **1.86E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **5.18E-01** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **2.70E+01** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-161**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-161**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-161**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **Hawk - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Hawk - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Shrew - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-161**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.45E+01 | 2.18E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.45E+01 | 2.18E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 2.45E+01 | 2.18E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 2.45E+01 | 2.18E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 2.45E+01 | 2.18E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 2.45E+01 | 2.18E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-161**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 1.43E-03 | 0.00E+00 | 0.00E+00 | 3.60E-02 | 0.00E+00 | 6.10E-03 | 0.00E+00 | 4.84E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 2.87E+00 | 0.00E+00 | 0.00E+00 | 3.47E+00 | 0.00E+00 | 4.98E-01 | 0.00E+00 | 5.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.43E-01 | 0.00E+00 | 0.00E+00 | 4.73E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.60E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 6.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 2.66E-01 | 0.00E+00 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 1.68E-02 | 0.00E+00 | 1.19E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.44E-03 | 0.00E+00 | 0.00E+00 | 4.99E-02 | 0.00E+00 | 3.70E-03 | 0.00E+00 | 1.33E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.17E-01 | 0.00E+00 | 0.00E+00 | 6.19E-01 | 0.00E+00 | 2.43E-02 | 0.00E+00 | 7.67E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 1.43E-03 | 0.00E+00 | 0.00E+00 | 3.60E-02 | 0.00E+00 | 6.10E-03 | 0.00E+00 | 4.84E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.94E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.00E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 3.31E-03 | 0.00E+00 | 2.64E-03 | 0.00E+00 | 1.49E-04 | 2.64E-03 | 0.00E+00 | 1.60E-03 | 0.00E+00 | 0.00E+00 | 5.17E-04 | 3.36E-03 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 1.19E+00 | 0.00E+00 | 2.55E-01 | 0.00E+00 | 1.22E-02 | 2.55E-01 | 0.00E+00 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 1.76E+00 | 1.55E-02 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 1.50E-02 | 0.00E+00 | 3.47E-02 | 0.00E+00 | 1.98E-02 | 3.47E-02 | 0.00E+00 | 5.99E-03 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 2.38E-03 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 5.30E-03 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 4.95E-02 | 1.82E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 4.07E-04 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 6.89E-04 | 0.00E+00 | 3.30E-02 | 0.00E+00 | 4.11E-04 | 3.30E-02 | 0.00E+00 | 2.58E-03 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 3.61E-04 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 3.06E-04 | 0.00E+00 | 3.66E-03 | 0.00E+00 | 9.04E-05 | 3.66E-03 | 0.00E+00 | 1.02E-04 | 0.00E+00 | 0.00E+00 | 6.26E-04 | 2.69E-04 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.26E-03 | 0.00E+00 | 4.54E-02 | 0.00E+00 | 5.95E-04 | 4.54E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 1.06E-02 | 4.66E-04 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 6.10E-03 | 0.00E+00 | 5.16E-02 | 0.00E+00 | 1.24E-03 | 2.20E-02 | 0.00E+00 | 7.20E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.19E+00 | 0.00E+00 | 4.97E+00 | 0.00E+00 | 1.02E-01 | 2.12E+00 | 0.00E+00 | 1.56E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.75E-02 | 0.00E+00 | 6.78E-01 | 0.00E+00 | 1.65E-01 | 2.89E-01 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 9.76E-03 | 0.00E+00 | 3.55E-01 | 0.00E+00 | 4.13E-01 | 1.52E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.27E-03 | 0.00E+00 | 6.45E-01 | 0.00E+00 | 3.43E-03 | 2.75E-01 | 0.00E+00 | 1.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 5.63E-04 | 0.00E+00 | 7.15E-02 | 0.00E+00 | 7.54E-04 | 3.05E-02 | 0.00E+00 | 4.59E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 4.17E-03 | 0.00E+00 | 8.87E-01 | 0.00E+00 | 4.96E-03 | 3.79E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-161**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 0.00E+00 | 4.23E-05 | 5.33E-02 | 4.98E-02 | 1.03E-01 | 1.03E-01 | 4.67E-01 | 1.40E+00 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.96E+00 | 0.00E+00 | 3.27E-02 | 7.93E+00 | 8.36E+00 | 1.63E+01 | 1.63E+01 | 2.08E+01 | 4.17E+01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.81E-01 | 0.00E+00 | 4.86E-03 | 1.76E+00 | 1.74E+00 | 3.51E+00 | 3.51E+00 | 2.66E+00 | 2.80E+00 | 7E-01 | 6E-01 | 7E-01 | 6E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-01 | 0.00E+00 | 3.29E-03 | 2.54E+00 | 1.36E+00 | 3.91E+00 | 3.91E+00 | 7.61E+00 | 7.80E+00 | 3E-01 | 3E-01 | 2E-01 | 2E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.35E-01 | 0.00E+00 | 1.82E-02 | 1.10E+00 | 1.46E+00 | 2.56E+00 | 2.58E+00 | 1.63E+00 | 3.26E+00 | 7E-01 | 3E-01 | 9E-01 | 4E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-02 | 0.00E+00 | 1.16E-04 | 7.13E-02 | 1.34E-01 | 2.06E-01 | 2.06E-01 | 2.27E-02 | 6.80E-02 | **3E+00** | 1E+00 | **6E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.21E-01 | 0.00E+00 | 4.62E-03 | 1.56E+00 | 8.84E-01 | 2.45E+00 | 2.45E+00 | 3.44E-01 | 7.00E-01 | **5E+00** | **2E+00** | **3E+00** | **1E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 0.00E+00 | 4.23E-05 | 5.33E-02 | 4.98E-02 | 1.03E-01 | 1.03E-01 | 4.33E-02 | 1.30E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 6.49E-02 | 0.00E+00 | 1.49E-03 | 1.16E-03 | 8.93E-06 | 8.01E-02 | 6.60E-02 | 1.46E-01 | 1.46E-01 | 4.67E-01 | 1.40E+00 | 2E-01 | 6E-02 | 1E-01 | 5E-02 |
| | **Barium** | 0.00E+00 | 2.46E-01 | 0.00E+00 | 5.30E-01 | 4.06E-01 | 6.90E-03 | 2.23E+00 | 6.51E-01 | 2.89E+00 | 2.89E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 5E-02 | 3E-02 | 2E-02 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 6.44E-02 | 1.06E-01 | 1.03E-03 | 3.58E-01 | 1.99E-01 | 5.58E-01 | 5.59E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 7E-02 | 7E-02 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 3.61E-02 | 4.25E-02 | 6.95E-04 | 1.13E+00 | 2.77E-01 | 1.40E+00 | 1.40E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 4E-02 | 4E-02 |
| | **Lead** | 0.00E+00 | 2.22E-02 | 0.00E+00 | 8.50E-02 | 1.09E-01 | 3.84E-03 | 2.12E-01 | 1.31E-01 | 3.43E-01 | 3.47E-01 | 1.63E+00 | 3.26E+00 | 1E-01 | 6E-02 | 8E-02 | 4E-02 |
| | **Mercury** | 0.00E+00 | 1.12E-02 | 0.00E+00 | 2.37E-03 | 3.76E-03 | 2.45E-05 | 7.37E-03 | 1.50E-02 | 2.23E-02 | 2.24E-02 | 2.27E-02 | 6.80E-02 | 3E-01 | 1E-01 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.23E-01 | 7.40E-02 | 9.75E-04 | 5.59E-01 | 1.68E-01 | 7.27E-01 | 7.28E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 5E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 6.49E-02 | 0.00E+00 | 1.49E-03 | 1.16E-03 | 8.93E-06 | 8.01E-02 | 6.60E-02 | 1.46E-01 | 1.46E-01 | 4.33E-02 | 1.30E-01 | **2E+00** | 6E-01 | **2E+00** | 5E-01 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 3.34E-03 | 4.46E-04 | 8.25E-04 | 0.00E+00 | 1.30E-05 | 1.12E-02 | 7.66E-03 | 1.88E-02 | 1.88E-02 | 2.30E-01 | 6.80E-01 | 5E-02 | 2E-02 | 3E-02 | 1E-02 |
| | **Barium** | 0.00E+00 | 1.26E-02 | 8.39E-02 | 2.93E-01 | 0.00E+00 | 1.00E-02 | 2.04E+00 | 1.87E+00 | 3.91E+00 | 3.92E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 2.05E-02 | 3.56E-02 | 0.00E+00 | 1.49E-03 | 1.46E-01 | 3.39E-02 | 1.80E-01 | 1.81E-01 | 2.40E+00 | 2.82E+00 | 6E-02 | 5E-02 | 1E-02 | 1E-02 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 2.92E-03 | 1.99E-02 | 0.00E+00 | 1.01E-03 | 1.33E-01 | 8.52E-02 | 2.18E-01 | 2.19E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 9E-03 |
| | **Lead** | 0.00E+00 | 1.14E-03 | 7.56E-03 | 4.69E-02 | 0.00E+00 | 5.59E-03 | 1.17E-01 | 1.99E-02 | 1.36E-01 | 1.42E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 4E-03 | 2E-03 |
| | **Mercury** | 0.00E+00 | 5.77E-04 | 4.22E-04 | 1.31E-03 | 0.00E+00 | 3.57E-05 | 9.13E-03 | 1.89E-03 | 1.10E-02 | 1.11E-02 | 7.50E-02 | 1.50E-01 | 1E-01 | 6E-02 | 3E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 2.35E-03 | 6.81E-02 | 0.00E+00 | 1.42E-03 | 1.71E-01 | 1.82E-02 | 1.89E-01 | 1.90E-01 | 4.16E+00 | 8.31E+00 | 4E-02 | 2E-02 | 4E-03 | 2E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 7.96E-03 | 7.08E-04 | 1.25E-03 | 9.73E-04 | 2.35E-05 | 8.94E-02 | 9.64E-03 | 9.91E-02 | 9.91E-02 | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 4E-02 | 1E-02 |
| | **Barium** | 0.00E+00 | 3.01E-02 | 1.33E-01 | 4.45E-01 | 3.41E-01 | 1.82E-02 | 9.99E+00 | 5.04E-01 | 1.05E+01 | 1.05E+01 | 5.18E+01 | 1.21E+02 | 2E-01 | 8E-02 | 1E-02 | 4E-03 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 3.26E-02 | 5.41E-02 | 8.86E-02 | 2.70E-03 | 1.24E+00 | 1.33E-01 | 1.37E+00 | 1.38E+00 | 2.40E+00 | 2.82E+00 | 5E-01 | 4E-01 | 6E-02 | 5E-02 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 4.64E-03 | 3.03E-02 | 3.57E-02 | 1.83E-03 | 1.06E+00 | 6.91E-02 | 1.13E+00 | 1.13E+00 | 7.33E+00 | 1.00E+01 | 1E-01 | 1E-01 | 9E-03 | 7E-03 |
| | **Lead** | 0.00E+00 | 2.72E-03 | 1.20E-02 | 7.13E-02 | 9.16E-02 | 1.01E-02 | 1.01E+00 | 1.06E-01 | 1.11E+00 | 1.12E+00 | 4.70E+00 | 8.90E+00 | 2E-01 | 1E-01 | 2E-02 | 1E-02 |
| | **Mercury** | 0.00E+00 | 1.38E-03 | 6.69E-04 | 1.99E-03 | 3.15E-03 | 6.45E-05 | 1.06E-01 | 5.20E-03 | 1.11E-01 | 1.11E-01 | 7.50E-02 | 1.50E-01 | **1E+00** | 7E-01 | 7E-02 | 3E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 3.74E-03 | 1.04E-01 | 6.21E-02 | 2.57E-03 | 1.42E+00 | 7.74E-02 | 1.50E+00 | 1.50E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 2E-01 | 2E-02 | 9E-03 |

**Table E3-161**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2E-01 | 7E-02 | 2E-01 | 7E-02 |
| | **Barium** | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Vanadium** | **7E+00** | **3E+00** | **7E+00** | **4E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Hawk - mid** | **tPCB-med** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Barium** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Raccoon - 1** | **tPCB** | 8E-02 | 3E-02 | 8E-02 | 3E-02 |
| | **Barium** | 8E-02 | 3E-02 | 8E-02 | 3E-02 |
| | **Chromium** | 7E-02 | 6E-02 | 8E-02 | 6E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Mercury** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Vanadium** | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Barium** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 6E-01 | 5E-01 | 6E-01 | 5E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-162**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C9, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **9.70E+00** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **9.70E+00** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Vanadium** | **9.70E+00** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 2** | **tPCB-mink** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Vanadium** | **9.70E+00** | **1.62E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Raccoon - 1** | **tPCB** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Vanadium** | **9.70E+00** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| **Raccoon - 2** | **tPCB** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Vanadium** | **9.70E+00** | **1.62E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |

**Table E3-162**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C9, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| Spotted Sandpiper - 1 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| Spotted Sandpiper - 1 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| GBH - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| GBH - high | tPCB-high | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| Mink - 1 | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| Mink - 2 | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| Raccoon - 2 | tPCB | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Barium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Chromium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Cobalt | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Lead | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Mercury | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | Vanadium | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table E3-162**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C9, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| **GBH - mid** | **tPCB-med** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **GBH - high** | **tPCB-high** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| **Mink - 1** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Mink - 2** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 1** | **tPCB** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |
| **Raccoon - 2** | **tPCB** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 | 5.33E-02 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 | 1.10E+00 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 | 7.42E-02 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 | 2.06E-02 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 | 8.00E-02 |

**Table E3-162**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C9, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | |
|---|---|---|---|---|---|
| | | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **GBH - mid** | **tPCB-med** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **GBH - high** | **tPCB-high** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **Mink - 1** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Mink - 2** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 1** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 2** | **tPCB** | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |

**Table E3-162**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C9, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| **GBH - mid** | **tPCB-med** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **GBH - high** | **tPCB-high** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| **Mink - 1** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Mink - 2** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Raccoon - 1** | **tPCB** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |
| **Raccoon - 2** | **tPCB** | 5.84E-01 | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg |

**Table E3-162**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C9, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 2.18E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.30E-02 | 9.02E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 7.21E+00 | 4.20E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 7.26E-01 | 1.18E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.03E+00 | 4.20E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.70E+00 | 9.13E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.65E-02 | 2.61E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 6.30E-01 | 5.41E-01 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 2.18E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.30E-02 | 9.02E-01 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 2.18E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 2.18E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.23E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.23E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 6.48E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.22E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 6.00E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.26E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.64E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 2.18E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.36E-02 | 0.00E+00 | 2.72E-02 | 0.00E+00 | 1.04E-03 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.92E-01 | 0.00E+00 | 1.26E-01 | 0.00E+00 | 6.05E-03 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.53E-02 | 0.00E+00 | 3.54E-02 | 0.00E+00 | 1.98E-02 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 3.69E-03 | 0.00E+00 | 1.27E-02 | 0.00E+00 | 4.95E-02 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.74E-04 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 3.43E-04 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.01E-03 | 0.00E+00 | 7.86E-03 | 0.00E+00 | 3.00E-04 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 8.13E-04 | 0.00E+00 | 1.63E-02 | 0.00E+00 | 2.14E-04 |
| **Raccoon - 2** | **tPCB** | 2.18E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.98E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.17E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 5.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.11E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.97E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.90E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 3.93E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 5.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.00E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.80E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-162**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C9, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water |
| Spotted Sandpiper - 1 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.64E-02 | 4.07E-03 | 2.66E-05 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.23E-01 | 1.42E+00 | 2.06E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.31E-01 | 3.70E-01 | 3.06E-03 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.81E-02 | 1.49E-01 | 2.07E-03 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.48E-01 | 3.83E-01 | 1.14E-02 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 1.32E-02 | 7.31E-05 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.55E-01 | 2.60E-01 | 2.91E-03 |
| Spotted Sandpiper - 1 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.64E-02 | 4.07E-03 | 2.66E-05 |
| GBH - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 5.71E-03 | 0.00E+00 | 0.00E+00 | 2.61E-04 | 9.41E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.90E-03 | 0.00E+00 | 8.94E-04 | 7.05E-06 |
| | Barium | 0.00E+00 | 0.00E+00 | 2.14E-02 | 0.00E+00 | 0.00E+00 | 8.88E-01 | 4.34E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.34E-01 | 0.00E+00 | 3.13E-01 | 5.45E-03 |
| | Chromium | 0.00E+00 | 0.00E+00 | 7.58E-03 | 0.00E+00 | 0.00E+00 | 3.12E-03 | 6.68E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 | 0.00E+00 | 8.13E-02 | 8.10E-04 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 1.14E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.55E-02 | 0.00E+00 | 3.28E-02 | 5.49E-04 |
| | Lead | 0.00E+00 | 0.00E+00 | 2.67E-03 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 1.01E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.62E-02 | 0.00E+00 | 8.42E-02 | 3.03E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 4.19E-04 | 0.00E+00 | 0.00E+00 | 3.16E-04 | 7.54E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.69E-03 | 0.00E+00 | 2.89E-03 | 1.94E-05 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 5.35E-03 | 1.31E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-02 | 0.00E+00 | 5.70E-02 | 7.70E-04 |
| GBH - high | tPCB-high | 0.00E+00 | 0.00E+00 | 5.71E-03 | 0.00E+00 | 0.00E+00 | 2.61E-04 | 9.41E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.90E-03 | 0.00E+00 | 8.94E-04 | 7.05E-06 |
| Mink - 1 | tPCB-mink | 0.00E+00 | 0.00E+00 | 7.05E-02 | 0.00E+00 | 0.00E+00 | 6.59E-04 | 0.00E+00 | 0.00E+00 | 5.09E-02 | 0.00E+00 | 7.13E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 7.05E-02 | 0.00E+00 | 0.00E+00 | 6.59E-04 | 0.00E+00 | 0.00E+00 | 5.09E-02 | 0.00E+00 | 7.13E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | Barium | 0.00E+00 | 0.00E+00 | 2.64E-01 | 0.00E+00 | 0.00E+00 | 2.24E+00 | 0.00E+00 | 0.00E+00 | 8.66E-01 | 0.00E+00 | 1.34E+00 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 9.37E-02 | 0.00E+00 | 0.00E+00 | 7.88E-03 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 3.28E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 4.66E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | Lead | 0.00E+00 | 0.00E+00 | 3.30E-02 | 0.00E+00 | 0.00E+00 | 1.38E-02 | 0.00E+00 | 0.00E+00 | 5.41E-03 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 5.18E-03 | 0.00E+00 | 0.00E+00 | 7.99E-04 | 0.00E+00 | 0.00E+00 | 3.91E-03 | 0.00E+00 | 6.74E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 1.35E-02 | 0.00E+00 | 0.00E+00 | 2.70E-02 | 0.00E+00 | 3.76E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| Mink - 2 | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.62E-03 | 0.00E+00 | 0.00E+00 | 2.93E-04 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 8.22E-04 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 9.62E-03 | 0.00E+00 | 0.00E+00 | 2.93E-04 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 8.22E-04 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | Barium | 0.00E+00 | 0.00E+00 | 3.60E-02 | 0.00E+00 | 0.00E+00 | 9.97E-01 | 0.00E+00 | 0.00E+00 | 3.55E+00 | 0.00E+00 | 1.55E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 1.28E-02 | 0.00E+00 | 0.00E+00 | 3.50E-03 | 0.00E+00 | 0.00E+00 | 5.82E-01 | 0.00E+00 | 3.79E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 5.38E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | Lead | 0.00E+00 | 0.00E+00 | 4.49E-03 | 0.00E+00 | 0.00E+00 | 6.12E-03 | 0.00E+00 | 0.00E+00 | 2.21E-02 | 0.00E+00 | 1.39E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 0.00E+00 | 3.55E-04 | 0.00E+00 | 0.00E+00 | 1.60E-02 | 0.00E+00 | 7.77E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 6.01E-03 | 0.00E+00 | 0.00E+00 | 1.11E-01 | 0.00E+00 | 4.34E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| Raccoon - 1 | tPCB | 2.72E-02 | 0.00E+00 | 4.61E-03 | 0.00E+00 | 0.00E+00 | 5.17E-04 | 3.36E-03 | 0.00E+00 | 0.00E+00 | 3.34E-03 | 4.46E-04 | 5.73E-03 | 0.00E+00 | 1.30E-05 |
| | Barium | 1.26E-01 | 0.00E+00 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 1.76E+00 | 1.55E-02 | 0.00E+00 | 0.00E+00 | 1.26E-02 | 8.39E-02 | 1.45E-01 | 0.00E+00 | 1.00E-02 |
| | Chromium | 3.54E-02 | 0.00E+00 | 6.12E-03 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 2.38E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 2.05E-02 | 3.63E-02 | 0.00E+00 | 1.49E-03 |
| | Cobalt | 1.27E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 4.07E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 2.92E-03 | 1.39E-02 | 0.00E+00 | 1.01E-03 |
| | Lead | 2.75E-02 | 0.00E+00 | 2.15E-03 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 3.61E-04 | 0.00E+00 | 0.00E+00 | 1.14E-03 | 7.56E-03 | 3.91E-02 | 0.00E+00 | 5.59E-03 |
| | Mercury | 7.86E-03 | 0.00E+00 | 3.38E-04 | 0.00E+00 | 0.00E+00 | 6.26E-04 | 2.69E-04 | 0.00E+00 | 0.00E+00 | 5.77E-04 | 4.22E-04 | 4.33E-03 | 0.00E+00 | 3.57E-05 |
| | Vanadium | 1.63E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 1.06E-02 | 4.66E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 2.35E-03 | 2.45E-02 | 0.00E+00 | 1.42E-03 |
| Raccoon - 2 | tPCB | 0.00E+00 | 0.00E+00 | 1.65E-02 | 1.89E-02 | 6.41E-03 | 5.17E-04 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-03 | 0.00E+00 | 6.40E-04 | 1.30E-05 |
| | Barium | 0.00E+00 | 0.00E+00 | 6.18E-02 | 6.52E-02 | 2.47E-01 | 1.76E+00 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.36E-01 | 0.00E+00 | 2.24E-01 | 1.00E-02 |
| | Chromium | 0.00E+00 | 0.00E+00 | 2.19E-02 | 6.56E-03 | 1.02E-01 | 6.17E-03 | 2.49E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.22E-02 | 0.00E+00 | 5.83E-02 | 1.49E-03 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 7.96E-02 | 9.32E-03 | 5.47E-02 | 6.97E-02 | 4.26E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.17E-02 | 0.00E+00 | 2.35E-02 | 1.01E-03 |
| | Lead | 0.00E+00 | 0.00E+00 | 7.72E-03 | 1.53E-02 | 8.67E-02 | 1.08E-02 | 3.77E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-02 | 0.00E+00 | 6.03E-02 | 5.59E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.21E-03 | 6.62E-04 | 2.37E-03 | 6.26E-04 | 2.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-03 | 0.00E+00 | 2.07E-03 | 3.57E-05 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 3.19E-02 | 5.70E-03 | 3.13E-02 | 1.06E-02 | 4.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.41E-03 | 0.00E+00 | 4.09E-02 | 1.42E-03 |

**Table E3-162**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C9, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 9.39E-01 | 1.71E-02 | 9.56E-01 | 9.56E-01 | 4.67E-01 | 1.40E+00 | **2E+00** | 7E-01 | 4E-02 | 1E-02 | **2E+00** | 7E-01 | **2E+00** |
| | **Barium** | 5.12E+00 | 8.64E+00 | 1.38E+01 | 1.38E+01 | 2.08E+01 | 4.17E+01 | 2E-01 | 1E-01 | 4E-01 | 2E-01 | 7E-01 | 3E-01 | 7E-01 |
| | **Chromium** | 1.41E+00 | 1.10E+00 | 2.50E+00 | 2.51E+00 | 2.66E+00 | 2.80E+00 | 5E-01 | 5E-01 | 4E-01 | 4E-01 | 9E-01 | 9E-01 | 9E-01 |
| | **Cobalt** | 5.08E-01 | 1.18E+00 | 1.69E+00 | 1.69E+00 | 7.61E+00 | 7.80E+00 | 7E-02 | 7E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 1.16E+00 | 2.08E+00 | 3.24E+00 | 3.25E+00 | 1.63E+00 | 3.26E+00 | 7E-01 | 4E-01 | **1E+00** | 6E-01 | **2E+00** | 1E+00 | **2E+00** |
| | **Mercury** | 2.88E-01 | 3.97E-02 | 3.28E-01 | 3.28E-01 | 2.27E-02 | 6.80E-02 | **1E+01** | **4E+00** | **2E+00** | 6E-01 | **1E+01** | **5E+00** | **1E+01** |
| | **Vanadium** | 6.97E-01 | 8.90E-01 | 1.59E+00 | 1.59E+00 | 3.44E-01 | 7.00E-01 | **2E+00** | 1E+00 | **3E+00** | **1E+00** | **5E+00** | **2E+00** | **5E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 9.39E-01 | 1.71E-02 | 9.56E-01 | 9.56E-01 | 4.33E-02 | 1.30E-01 | **2E+01** | **7E+00** | 4E-01 | 1E-01 | **2E+01** | **7E+00** | **2E+01** |
| **GBH - mid** | **tPCB-med** | 5.71E-03 | 9.46E-01 | 9.52E-01 | 9.52E-01 | 4.67E-01 | 1.40E+00 | 1E-02 | 4E-03 | **2E+00** | 7E-01 | **2E+00** | 7E-01 | **2E+00** |
| | **Barium** | 2.14E-02 | 6.28E+00 | 6.30E+00 | 6.31E+00 | 2.08E+01 | 4.17E+01 | 1E-03 | 5E-04 | 3E-01 | 2E-01 | 3E-01 | 2E-01 | 3E-01 |
| | **Chromium** | 7.58E-03 | 9.32E-01 | 9.40E-01 | 9.41E-01 | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 4E-01 | 3E-01 | 4E-01 | 3E-01 | 4E-01 |
| | **Cobalt** | 2.75E-02 | 2.08E-01 | 2.35E-01 | 2.36E-01 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 3E-02 | 3E-02 | 3E-02 | 3E-02 | 3E-02 |
| | **Lead** | 2.67E-03 | 2.57E-01 | 2.60E-01 | 2.63E-01 | 1.63E+00 | 3.26E+00 | 2E-03 | 8E-04 | 2E-01 | 8E-02 | 2E-01 | 8E-02 | 2E-01 |
| | **Mercury** | 4.19E-04 | 8.23E-02 | 8.27E-02 | 8.27E-02 | 2.27E-02 | 6.80E-02 | 2E-02 | 6E-03 | **4E+00** | **1E+00** | **4E+00** | **1E+00** | **4E+00** |
| | **Vanadium** | 1.10E-02 | 2.14E-01 | 2.25E-01 | 2.25E-01 | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 6E-01 | 3E-01 | 7E-01 | 3E-01 | 7E-01 |
| **GBH - high** | **tPCB-high** | 5.71E-03 | 9.46E-01 | 9.52E-01 | 9.52E-01 | 4.33E-02 | 1.30E-01 | 1E-01 | 4E-02 | **2E+01** | **7E+00** | **2E+01** | **7E+00** | **2E+01** |
| **Mink - 1** | **tPCB-mink** | 7.05E-02 | 5.87E-02 | 1.29E-01 | 1.29E-01 | 5.00E-02 | 1.00E-01 | **1E+00** | 7E-01 | **1E+00** | 6E-01 | **3E+00** | **1E+00** | **3E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 7.05E-02 | 5.87E-02 | 1.29E-01 | 1.29E-01 | na | 5.00E-02 | **--** | **1E+00** | **--** | **1E+00** | **--** | **3E+00** | **--** |
| | **Barium** | 2.64E-01 | 4.45E+00 | 4.72E+00 | 4.73E+00 | 5.18E+01 | 1.21E+02 | 5E-03 | 2E-03 | 9E-02 | 4E-02 | 9E-02 | 4E-02 | 9E-02 |
| | **Chromium** | 9.37E-02 | 4.78E-01 | 5.72E-01 | 5.74E-01 | 2.40E+00 | 2.82E+00 | 4E-02 | 3E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 3.40E-01 | 3.36E-01 | 6.76E-01 | 6.78E-01 | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 5E-02 | 3E-02 | 9E-02 | 7E-02 | 9E-02 |
| | **Lead** | 3.30E-02 | 1.40E-01 | 1.73E-01 | 1.80E-01 | 4.70E+00 | 8.90E+00 | 7E-03 | 4E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 |
| | **Mercury** | 5.18E-03 | 1.14E-02 | 1.66E-02 | 1.67E-02 | 7.50E-02 | 1.50E-01 | 7E-02 | 3E-02 | 2E-01 | 8E-02 | 2E-01 | 1E-01 | 2E-01 |
| | **Vanadium** | 1.36E-01 | 7.81E-02 | 2.14E-01 | 2.16E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 2E-02 | 9E-03 | 5E-02 | 3E-02 | 5E-02 |
| **Mink - 2** | **tPCB-mink** | 9.62E-03 | 2.10E-01 | 2.19E-01 | 2.19E-01 | 5.00E-02 | 1.00E-01 | 2E-01 | 1E-01 | **4E+00** | **2E+00** | **4E+00** | **2E+00** | **4E+00** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 9.62E-03 | 2.10E-01 | 2.19E-01 | 2.19E-01 | na | 5.00E-02 | **--** | 2E-01 | **--** | **4E+00** | **--** | **4E+00** | **--** |
| | **Barium** | 3.60E-02 | 4.76E+00 | 4.80E+00 | 4.81E+00 | 5.18E+01 | 1.21E+02 | 7E-04 | 3E-04 | 9E-02 | 4E-02 | 9E-02 | 4E-02 | 9E-02 |
| | **Chromium** | 1.28E-02 | 6.26E-01 | 6.39E-01 | 6.41E-01 | 2.40E+00 | 2.82E+00 | 5E-03 | 5E-03 | 3E-01 | 2E-01 | 3E-01 | 2E-01 | 3E-01 |
| | **Cobalt** | 4.64E-02 | 8.84E-01 | 9.30E-01 | 9.31E-01 | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 |
| | **Lead** | 4.49E-03 | 4.82E-02 | 5.27E-02 | 5.94E-02 | 4.70E+00 | 8.90E+00 | 1E-03 | 5E-04 | 1E-02 | 5E-03 | 1E-02 | 6E-03 | 1E-02 |
| | **Mercury** | 7.06E-04 | 1.72E-02 | 1.79E-02 | 1.79E-02 | 7.50E-02 | 1.50E-01 | 9E-03 | 5E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 |
| | **Vanadium** | 1.85E-02 | 1.24E-01 | 1.42E-01 | 1.44E-01 | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 3E-02 | 1E-02 | 3E-02 | 2E-02 | 3E-02 |
| **Raccoon - 1** | **tPCB** | 8.94E-02 | 7.66E-03 | 9.70E-02 | 9.70E-02 | 2.30E-01 | 6.80E-01 | 4E-01 | 1E-01 | 3E-02 | 1E-02 | 4E-01 | 1E-01 | 4E-01 |
| | **Barium** | 1.01E+00 | 1.87E+00 | 2.88E+00 | 2.89E+00 | 5.18E+01 | 1.21E+02 | 2E-02 | 8E-03 | 4E-02 | 2E-02 | 6E-02 | 2E-02 | 6E-02 |
| | **Chromium** | 1.48E-01 | 3.39E-02 | 1.82E-01 | 1.84E-01 | 2.40E+00 | 2.82E+00 | 6E-02 | 5E-02 | 1E-02 | 1E-02 | 8E-02 | 6E-02 | 8E-02 |
| | **Cobalt** | 1.15E-01 | 8.52E-02 | 2.00E-01 | 2.01E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 9E-03 | 3E-02 | 2E-02 | 3E-02 |
| | **Lead** | 9.72E-02 | 1.99E-02 | 1.17E-01 | 1.23E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 4E-03 | 2E-03 | 2E-02 | 1E-02 | 3E-02 |
| | **Mercury** | 2.17E-02 | 1.89E-03 | 2.36E-02 | 2.36E-02 | 7.50E-02 | 1.50E-01 | 3E-01 | 1E-01 | 3E-02 | 1E-02 | 3E-01 | 2E-01 | 3E-01 |
| | **Vanadium** | 6.70E-02 | 1.82E-02 | 8.52E-02 | 8.67E-02 | 4.16E+00 | 8.31E+00 | 2E-02 | 8E-03 | 4E-03 | 2E-03 | 2E-02 | 1E-02 | 2E-02 |
| **Raccoon - 2** | **tPCB** | 1.65E-02 | 6.36E-02 | 8.01E-02 | 8.01E-02 | 2.30E-01 | 6.80E-01 | 7E-02 | 2E-02 | 3E-01 | 9E-02 | 3E-01 | 1E-01 | 3E-01 |
| | **Barium** | 6.18E-02 | 3.39E+00 | 3.45E+00 | 3.46E+00 | 5.18E+01 | 1.21E+02 | 1E-03 | 5E-04 | 7E-02 | 3E-02 | 7E-02 | 3E-02 | 7E-02 |
| | **Chromium** | 2.19E-02 | 3.10E-01 | 3.32E-01 | 3.33E-01 | 2.40E+00 | 2.82E+00 | 9E-03 | 8E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 7.96E-02 | 3.32E-01 | 4.11E-01 | 4.12E-01 | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 5E-02 | 3E-02 | 6E-02 | 4E-02 | 6E-02 |
| | **Lead** | 7.72E-03 | 2.62E-01 | 2.70E-01 | 2.76E-01 | 4.70E+00 | 8.90E+00 | 2E-03 | 9E-04 | 6E-02 | 3E-02 | 6E-02 | 3E-02 | 6E-02 |
| | **Mercury** | 1.21E-03 | 1.05E-02 | 1.17E-02 | 1.18E-02 | 7.50E-02 | 1.50E-01 | 2E-02 | 8E-03 | 1E-01 | 7E-02 | 2E-01 | 8E-02 | 2E-01 |
| | **Vanadium** | 3.19E-02 | 1.27E-01 | 1.59E-01 | 1.60E-01 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 |

**Table E3-162**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C9, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients |
|---|---|---|
| | | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 7E-01 |
| | **Barium** | 3E-01 |
| | **Chromium** | 9E-01 |
| | **Cobalt** | 2E-01 |
| | **Lead** | 1E+00 |
| | **Mercury** | **5E+00** |
| | **Vanadium** | **2E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **7E+00** |
| **GBH - mid** | **tPCB-med** | 7E-01 |
| | **Barium** | 2E-01 |
| | **Chromium** | 3E-01 |
| | **Cobalt** | 3E-02 |
| | **Lead** | 8E-02 |
| | **Mercury** | **1E+00** |
| | **Vanadium** | 3E-01 |
| **GBH - high** | **tPCB-high** | **7E+00** |
| **Mink - 1** | **tPCB-mink** | **1E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **3E+00** |
| | **Barium** | 4E-02 |
| | **Chromium** | 2E-01 |
| | **Cobalt** | 7E-02 |
| | **Lead** | 2E-02 |
| | **Mercury** | 1E-01 |
| | **Vanadium** | 3E-02 |
| **Mink - 2** | **tPCB-mink** | **2E+00** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **4E+00** |
| | **Barium** | 4E-02 |
| | **Chromium** | 2E-01 |
| | **Cobalt** | 9E-02 |
| | **Lead** | 7E-03 |
| | **Mercury** | 1E-01 |
| | **Vanadium** | 2E-02 |
| **Raccoon - 1** | **tPCB** | 1E-01 |
| | **Barium** | 2E-02 |
| | **Chromium** | 7E-02 |
| | **Cobalt** | 2E-02 |
| | **Lead** | 1E-02 |
| | **Mercury** | 2E-01 |
| | **Vanadium** | 1E-02 |
| **Raccoon - 2** | **tPCB** | 1E-01 |
| | **Barium** | 3E-02 |
| | **Chromium** | 1E-01 |
| | **Cobalt** | 4E-02 |
| | **Lead** | 3E-02 |
| | **Mercury** | 8E-02 |
| | **Vanadium** | 2E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-163**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C9**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-163**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C9**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians |
| **Tree Swallow - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Tree Swallow - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 1 - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Kingfisher - 2 - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Osprey - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Osprey - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Bat** | **tPCB** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Otter** | **tPCB-mink** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |

**Table E3-163**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C9**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Body Weight | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water |
| **Tree Swallow - mid** | **tPCB-med** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 2.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| | **Barium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 2.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 |
| | **Chromium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 |
| | **Cobalt** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 6.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 |
| | **Lead** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 |
| | **Mercury** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 4.94E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 |
| | **Vanadium** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 |
| **Tree Swallow - high** | **tPCB-high** | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 0.00E+00 | 2.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.13E-03 | 2.66E-05 |
| | **Barium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.85E+00 | 2.06E-02 |
| | **Chromium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.40E-01 | 3.06E-03 |
| | **Cobalt** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.98E-01 | 2.07E-03 |
| | **Lead** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.66E-01 | 1.14E-02 |
| | **Mercury** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 4.24E-02 | 0.00E+00 | 4.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E-02 | 7.31E-05 |
| | **Vanadium** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E-01 | 2.91E-03 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.13E-03 | 2.66E-05 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.28E+00 | 0.00E+00 | 0.00E+00 | 8.00E-04 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E+00 | 0.00E+00 | 0.00E+00 | 2.80E-01 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 0.00E+00 | 0.00E+00 | 7.28E-02 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 2.93E-02 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 7.53E-02 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 2.59E-03 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 5.11E-02 | 1.88E-03 |
| **Kingfisher - 1 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.28E+00 | 0.00E+00 | 0.00E+00 | 8.00E-04 | 1.72E-05 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.13E-02 | 0.00E+00 | 0.00E+00 | 4.01E+00 | 0.00E+00 | 4.28E-02 | 8.00E-04 | 1.72E-05 |
| | **Barium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E+00 | 0.00E+00 | 0.00E+00 | 3.95E+00 | 0.00E+00 | 3.47E-01 | 2.80E-01 | 1.33E-02 |
| | **Chromium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.33E+00 | 0.00E+00 | 1.42E-01 | 7.28E-02 | 1.98E-03 |
| | **Cobalt** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.23E-02 | 2.93E-02 | 1.34E-03 |
| | **Lead** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-02 | 0.00E+00 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 3.25E-02 | 7.53E-02 | 7.40E-03 |
| | **Mercury** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.01E-03 | 0.00E+00 | 0.00E+00 | 7.74E-02 | 0.00E+00 | 4.41E-03 | 2.59E-03 | 4.73E-05 |
| | **Vanadium** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 1.28E-02 | 5.11E-02 | 1.88E-03 |
| **Kingfisher - 2 - high** | **tPCB-high** | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.13E-02 | 0.00E+00 | 0.00E+00 | 4.01E+00 | 0.00E+00 | 4.28E-02 | 8.00E-04 | 1.72E-05 |
| **Osprey - mid** | **tPCB-med** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| | **Barium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 |
| | **Chromium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 |
| | **Cobalt** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 |
| | **Lead** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 |
| | **Mercury** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.56E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 |
| | **Vanadium** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 |
| **Osprey - high** | **tPCB-high** | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| **Bat** | **tPCB** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 |
| | **Barium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 |
| | **Chromium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 |
| | **Cobalt** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 5.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 |
| | **Lead** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 |
| | **Mercury** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 3.65E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 |
| | **Vanadium** | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 |
| **Otter** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.84E-01 | 7.81E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.84E-01 | 7.81E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| | **Barium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 1.17E-01 | 3.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 |
| | **Chromium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-02 | 1.46E-02 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 |
| | **Cobalt** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E-03 | 3.49E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 |
| | **Lead** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.15E-03 | 1.64E-03 | 2.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 |
| | **Mercury** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-02 | 1.80E-02 | 6.76E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 |
| | **Vanadium** | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-02 | 1.14E-03 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 |

**Table E3-163**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C9**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 2.66E-01 | 2.66E-01 | 4.67E-01 | 1.40E+00 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 2.72E+00 | 2.75E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 3.21E+00 | 3.21E+00 | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 6.82E-02 | 7.07E-02 | 7.61E+00 | 7.80E+00 | 9E-03 | 9E-03 | 9E-03 | 9E-03 |
| | **Lead** | 1.62E-01 | 1.76E-01 | 1.63E+00 | 3.26E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | 4.94E-02 | 4.95E-02 | 2.27E-02 | 6.80E-02 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Vanadium** | 1.40E-01 | 1.44E-01 | 3.44E-01 | 7.00E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.66E-01 | 2.66E-01 | 4.33E-02 | 1.30E-01 | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.02E-01 | 2.02E-01 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Barium** | 1.35E+01 | 1.35E+01 | 2.08E+01 | 4.17E+01 | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| | **Chromium** | 1.43E+00 | 1.43E+00 | 2.66E+00 | 2.80E+00 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Cobalt** | 1.09E+00 | 1.09E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1.83E+00 | 1.85E+00 | 1.63E+00 | 3.26E+00 | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Mercury** | 1.11E-01 | 1.11E-01 | 2.27E-02 | 6.80E-02 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | 9.74E-01 | 9.77E-01 | 3.44E-01 | 7.00E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.02E-01 | 2.02E-01 | 4.33E-02 | 1.30E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | 5.28E+00 | 5.28E+00 | 4.67E-01 | 1.40E+00 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 5.47E+00 | 5.49E+00 | 2.08E+01 | 4.17E+01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 1.82E+00 | 1.83E+00 | 2.66E+00 | 2.80E+00 | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Cobalt** | 3.07E+00 | 3.07E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 4.01E-01 | 4.09E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 1.04E-01 | 1.04E-01 | 2.27E-02 | 6.80E-02 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | 2.38E-01 | 2.40E-01 | 3.44E-01 | 7.00E-01 | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 5.28E+00 | 5.28E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | 4.09E+00 | 4.09E+00 | 4.67E-01 | 1.40E+00 | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Barium** | 1.05E+01 | 1.06E+01 | 2.08E+01 | 4.17E+01 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Chromium** | 1.59E+00 | 1.59E+00 | 2.66E+00 | 2.80E+00 | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 2.95E+00 | 2.95E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 4.54E-01 | 4.61E-01 | 1.63E+00 | 3.26E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 9.14E-02 | 9.14E-02 | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 2.48E-01 | 2.50E-01 | 3.44E-01 | 7.00E-01 | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 4.09E+00 | 4.09E+00 | 4.33E-02 | 1.30E-01 | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Osprey - mid** | **tPCB-med** | 3.73E+00 | 3.73E+00 | 4.67E-01 | 1.40E+00 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 1.04E+00 | 1.05E+00 | 2.08E+01 | 4.17E+01 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Chromium** | 3.22E-01 | 3.23E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 3.21E-02 | 3.28E-02 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 4E-03 | 4E-03 |
| | **Lead** | 3.86E-02 | 4.21E-02 | 1.63E+00 | 3.26E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.56E-02 | 7.56E-02 | 2.27E-02 | 6.80E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 8.39E-02 | 8.48E-02 | 3.44E-01 | 7.00E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | 3.73E+00 | 3.73E+00 | 4.33E-02 | 1.30E-01 | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Bat** | **tPCB** | 1.96E-01 | 1.96E-01 | 2.30E-01 | 6.80E-01 | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Barium** | 2.01E+00 | 2.03E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.37E+00 | 2.37E+00 | 2.40E+00 | 2.82E+00 | 1E+00 | 8E-01 | 1E+00 | 8E-01 |
| | **Cobalt** | 5.03E-02 | 5.23E-02 | 7.33E+00 | 1.00E+01 | 7E-03 | 5E-03 | 7E-03 | 5E-03 |
| | **Lead** | 1.20E-01 | 1.30E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 3.65E-02 | 3.66E-02 | 7.50E-02 | 1.50E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | 1.03E-01 | 1.06E-01 | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | 2.02E+00 | 2.02E+00 | 5.00E-02 | 1.00E-01 | **4E+01** | **2E+01** | **4E+01** | **2E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.02E+00 | 2.02E+00 | na | 5.00E-02 | **--** | **4E+01** | **--** | **4E+01** |
| | **Barium** | 7.09E-01 | 7.19E-01 | 5.18E+01 | 1.21E+02 | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 2.07E-01 | 2.08E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Cobalt** | 2.13E-01 | 2.14E-01 | 7.33E+00 | 1.00E+01 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 3.24E-02 | 3.79E-02 | 4.70E+00 | 8.90E+00 | 7E-03 | 4E-03 | 8E-03 | 4E-03 |
| | **Mercury** | 4.27E-02 | 4.27E-02 | 7.50E-02 | 1.50E-01 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 3.34E-02 | 3.48E-02 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 8E-03 | 4E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-164**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **1.61E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.55E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **1.61E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Blue Jay - mid** | **tPCB-med** | **1.61E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.55E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **1.61E+00** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1.61E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.55E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.61E+00** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Shrew - 1** | **tPCB** | **1.61E+00** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.55E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **1.61E+00** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.55E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **1.61E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.55E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **1.61E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.55E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **1.61E+00** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **1.66E+00** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.44E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.55E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **1.22E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-164**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.17E-02 | 1.88E-05 | 9.34E-02 | 9.34E-02 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-02 | 5.16E-05 | 4.11E-02 | 4.12E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.83E-01 | 2.16E-03 | 6.21E-01 | 6.23E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E-01 | 8.08E-03 | 3.19E-01 | 3.27E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-01 | 2.05E-03 | 2.57E-01 | 2.59E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.17E-02 | 1.88E-05 | 9.34E-02 | 9.34E-02 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 8.79E-02 | 0.00E+00 | 3.45E-02 | 2.04E-05 | 1.76E-01 | 1.76E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 1.06E-03 | 0.00E+00 | 4.01E-02 | 0.00E+00 | 3.56E-02 | 5.59E-05 | 8.39E-02 | 8.40E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 3.08E-01 | 2.34E-03 | 1.05E+00 | 1.05E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 3.32E-01 | 8.75E-03 | 2.29E+00 | 2.30E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 2.61E-01 | 2.22E-03 | 4.38E-01 | 4.40E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 8.79E-02 | 0.00E+00 | 3.45E-02 | 2.04E-05 | 1.76E-01 | 1.76E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.91E-01 | 3.95E-01 | 0.00E+00 | 5.50E-02 | 4.23E-05 | 6.61E-01 | 6.61E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 6.92E-03 | 8.72E-02 | 1.80E-01 | 0.00E+00 | 5.68E-02 | 1.16E-04 | 3.32E-01 | 3.33E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 4.91E-01 | 4.86E-03 | 3.53E+00 | 3.54E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 5.29E-01 | 1.82E-02 | 1.35E+01 | 1.35E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 4.16E-01 | 4.62E-03 | 1.50E+00 | 1.50E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.91E-01 | 3.95E-01 | 0.00E+00 | 5.50E-02 | 4.23E-05 | 6.61E-01 | 6.61E-01 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.70E-03 | 3.13E-03 | 2.47E-01 | 1.70E-01 | 0.00E+00 | 6.19E-03 | 2.35E-05 | 4.33E-01 | 4.33E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 2.06E-03 | 1.13E-01 | 7.77E-02 | 0.00E+00 | 6.38E-03 | 6.45E-05 | 2.00E-01 | 2.00E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 5.52E-02 | 2.70E-03 | 1.88E+00 | 1.89E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 5.94E-02 | 1.01E-02 | 9.31E+00 | 9.32E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 4.68E-02 | 2.57E-03 | 8.07E-01 | 8.10E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.40E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.73E-04 | 1.03E-05 | 6.88E-03 | 6.89E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.88E-04 | 2.84E-05 | 1.36E-03 | 1.39E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.22E-03 | 1.19E-03 | 3.93E-02 | 4.05E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.54E-03 | 4.44E-03 | 6.05E-03 | 1.05E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.58E-03 | 1.13E-03 | 5.36E-03 | 6.49E-03 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.12E-01 | 4.12E-03 | 1.72E-05 | 9.16E-01 | 9.16E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-03 | 4.25E-03 | 4.73E-05 | 1.40E-02 | 1.41E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 3.68E-02 | 1.98E-03 | 3.15E-01 | 3.17E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 3.96E-02 | 7.40E-03 | 3.55E-01 | 3.62E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 3.11E-02 | 1.88E-03 | 4.02E-01 | 4.04E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.81E-03 | 0.00E+00 | 7.91E-03 | 0.00E+00 | 4.59E-01 | 1.71E-03 | 1.33E-05 | 4.72E-01 | 4.72E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 3.61E-03 | 0.00E+00 | 4.94E-03 | 1.76E-03 | 3.66E-05 | 1.07E-02 | 1.07E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 1.40E-01 | 1.53E-02 | 1.53E-03 | 2.00E-01 | 2.02E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 1.59E-01 | 1.64E-02 | 5.72E-03 | 3.51E-01 | 3.57E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 1.87E-01 | 1.29E-02 | 1.45E-03 | 2.15E-01 | 2.16E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.27E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.53E-01 | 1.71E-03 | 1.33E-05 | 5.55E-01 | 5.55E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.94E-03 | 1.76E-03 | 3.66E-05 | 7.81E-03 | 7.85E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 1.53E-02 | 1.53E-03 | 1.88E-01 | 1.90E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 1.64E-02 | 5.72E-03 | 2.08E-01 | 2.13E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 1.29E-02 | 1.45E-03 | 2.38E-01 | 2.39E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-164**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 2E-01 | 7E-02 | 2E-01 | 7E-02 |
| | **Mercury** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 7E-01 | 4E-01 | 8E-01 | 4E-01 |
| **Mourning Dove - high** | **tPCB-high** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| **Blue Jay - mid** | **tPCB-med** | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Mercury** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Chromium** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Vanadium** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **Blue Jay - high** | **tPCB-high** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Mercury** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Vanadium** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| **Shrew - 1** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| | **Chromium** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 1E-03 | 7E-04 | 2E-03 | 1E-03 |
| | **Vanadium** | 1E-03 | 6E-04 | 2E-03 | 8E-04 |
| **Weasel** | **tPCB** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Mercury** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 7E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 4E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-165**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals |
| **Mourning Dove - mid** | **tPCB-med** | **3.27E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.86E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Mourning Dove - high** | **tPCB-high** | **3.27E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Blue Jay - mid** | **tPCB-med** | **3.27E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.86E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Blue Jay - high** | **tPCB-high** | **3.27E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **3.27E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.86E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **3.27E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| **Shrew - 1** | **tPCB** | **3.27E-01** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.86E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Deer** | **tPCB** | **3.27E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.86E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Weasel** | **tPCB** | **3.27E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.86E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 1** | **tPCB** | **3.27E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.86E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |
| **Fox - 2** | **tPCB** | **3.27E-01** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 |
| | **Mercury** | **5.18E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 |
| | **Chromium** | **1.41E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 |
| | **Lead** | **1.86E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 |
| | **Vanadium** | **2.70E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 |

**Table E3-165**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.42E-03 | 1.88E-05 | 6.81E-02 | 6.81E-02 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-02 | 5.16E-05 | 1.86E-02 | 1.87E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.77E-01 | 2.16E-03 | 6.15E-01 | 6.17E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.65E-01 | 8.08E-03 | 3.80E-01 | 3.88E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.30E-01 | 2.05E-03 | 5.47E-01 | 5.49E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.20E-01 | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.42E-03 | 1.88E-05 | 6.81E-02 | 6.81E-02 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 8.79E-02 | 0.00E+00 | 0.00E+00 | 7.00E-03 | 2.04E-05 | 1.49E-01 | 1.49E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 1.06E-03 | 0.00E+00 | 4.01E-02 | 0.00E+00 | 0.00E+00 | 1.11E-02 | 5.59E-05 | 5.94E-02 | 5.95E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 3.02E-01 | 2.34E-03 | 1.04E+00 | 1.04E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 0.00E+00 | 3.98E-01 | 8.75E-03 | 2.36E+00 | 2.37E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 5.78E-01 | 2.22E-03 | 7.55E-01 | 7.57E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 8.70E-02 | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 8.79E-02 | 0.00E+00 | 0.00E+00 | 7.00E-03 | 2.04E-05 | 1.49E-01 | 1.49E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.91E-01 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 4.23E-05 | 6.17E-01 | 6.17E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 6.92E-03 | 8.72E-02 | 1.80E-01 | 0.00E+00 | 0.00E+00 | 1.77E-02 | 1.16E-04 | 2.93E-01 | 2.93E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 4.81E-01 | 4.86E-03 | 3.52E+00 | 3.53E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 6.35E-01 | 1.82E-02 | 1.36E+01 | 1.37E+01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 9.21E-01 | 4.62E-03 | 2.00E+00 | 2.01E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.91E-01 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 1.12E-02 | 4.23E-05 | 6.17E-01 | 6.17E-01 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.70E-03 | 3.13E-03 | 2.47E-01 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.25E-03 | 2.35E-05 | 4.28E-01 | 4.29E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 2.06E-03 | 1.13E-01 | 7.77E-02 | 0.00E+00 | 0.00E+00 | 1.99E-03 | 6.45E-05 | 1.95E-01 | 1.96E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 0.00E+00 | 5.41E-02 | 2.70E-03 | 1.88E+00 | 1.89E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 0.00E+00 | 7.13E-02 | 1.01E-02 | 9.32E+00 | 9.33E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 0.00E+00 | 1.04E-01 | 2.57E-03 | 8.64E-01 | 8.67E-01 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.40E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.58E-05 | 1.03E-05 | 6.50E-03 | 6.51E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E-04 | 2.84E-05 | 1.03E-03 | 1.06E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.13E-03 | 1.19E-03 | 3.93E-02 | 4.04E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 4.44E-03 | 6.96E-03 | 1.14E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.66E+01 | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.91E-03 | 1.13E-03 | 9.70E-03 | 1.08E-02 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.12E-01 | 8.35E-04 | 1.72E-05 | 9.13E-01 | 9.13E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-03 | 1.32E-03 | 4.73E-05 | 1.11E-02 | 1.12E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 3.60E-02 | 1.98E-03 | 3.14E-01 | 3.16E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 4.75E-02 | 7.40E-03 | 3.63E-01 | 3.70E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.00E-01 | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 6.89E-02 | 1.88E-03 | 4.40E-01 | 4.42E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.81E-03 | 0.00E+00 | 7.91E-03 | 0.00E+00 | 0.00E+00 | 4.59E-01 | 3.47E-04 | 1.33E-05 | 4.71E-01 | 4.71E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 3.61E-03 | 0.00E+00 | 0.00E+00 | 4.94E-03 | 5.49E-04 | 3.66E-05 | 9.48E-03 | 9.52E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.49E-02 | 1.53E-03 | 2.00E-01 | 2.02E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 1.97E-02 | 5.72E-03 | 3.55E-01 | 3.60E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 2.86E-02 | 1.45E-03 | 2.31E-01 | 2.32E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.27E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.53E-01 | 3.47E-04 | 1.33E-05 | 5.54E-01 | 5.54E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.94E-03 | 5.49E-04 | 3.66E-05 | 6.60E-03 | 6.63E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 1.49E-02 | 1.53E-03 | 1.88E-01 | 1.90E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 1.97E-02 | 5.72E-03 | 2.11E-01 | 2.17E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 4.50E+00 | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.86E-02 | 1.45E-03 | 2.54E-01 | 2.55E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-165**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Mourning Dove - high** | **tPCB-high** | **2E+00** | 5E-01 | **2E+00** | 5E-01 |
| **Blue Jay - mid** | **tPCB-med** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Chromium** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Shrew - 1** | **tPCB** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 1E-02 | 7E-03 | 1E-02 | 7E-03 |
| | **Chromium** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 1E-03 | 8E-04 | 2E-03 | 1E-03 |
| | **Vanadium** | 2E-03 | 1E-03 | 3E-03 | 1E-03 |
| **Weasel** | **tPCB** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Mercury** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 9E-02 | 4E-02 | 9E-02 | 4E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 4E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-166**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.61E+00** | **2.54E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.66E+00** | **8.22E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.22E+01** | **1.62E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **1.61E+00** | **2.54E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **1.61E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Mercury** | **1.66E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | **Vanadium** | **1.22E+01** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **1.61E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.61E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Mercury** | **1.66E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | **Vanadium** | **1.22E+01** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | **1.61E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Mercury** | **1.66E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | **Vanadium** | **1.22E+01** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-166**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Measured Tissue (mg/kg dry weight) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 |

**Table E3-166**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.00E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 |
| | **Mercury** | 2.39E+00 | 2.06E-01 | 6.31E-02 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 2.00E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.00E-02 |
| **Hawk - mid** | **tPCB-med** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.10E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 |
| | **Mercury** | 2.39E+00 | 2.06E-01 | 6.31E-02 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.10E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 |
| **Hawk - high** | **tPCB-high** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.10E+00 |
| **Raccoon - 1** | **tPCB** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 5.60E+00 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 |
| | **Mercury** | 2.39E+00 | 2.06E-01 | 6.31E-02 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 5.60E+00 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 |
| **Shrew - 2** | **tPCB** | 5.23E+00 | 1.11E+00 | 9.60E-02 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.70E-02 |
| | **Barium** | 2.29E+02 | 1.14E+01 | 8.86E+00 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 |
| | **Chromium** | 1.94E+01 | 1.34E+01 | 7.38E+00 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 |
| | **Cobalt** | 5.68E+00 | 2.84E-01 | 1.85E+01 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 |
| | **Lead** | 1.16E+02 | 6.75E-01 | 2.45E-01 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 |
| | **Mercury** | 2.39E+00 | 2.06E-01 | 6.31E-02 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.70E-02 |
| | **Vanadium** | 9.41E+00 | 5.83E-01 | 2.14E-01 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 |

**Table E3-166**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 9.37E-03 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 1.53E-03 | 0.00E+00 | 0.00E+00 | 8.72E-02 | 0.00E+00 | 6.92E-03 | 0.00E+00 | 1.80E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 | 9.37E-03 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.40E-02 | 0.00E+00 | 2.58E-04 | 1.40E-02 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 0.00E+00 | 3.64E-03 |
| | **Barium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 |
| | **Chromium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| | **Cobalt** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 |
| | **Lead** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 |
| | **Mercury** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 6.40E-03 | 0.00E+00 | 1.69E-04 | 6.40E-03 | 0.00E+00 | 2.35E-04 | 0.00E+00 | 0.00E+00 | 8.16E-04 |
| | **Vanadium** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 |
| **Shrew - 2** | **tPCB** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 9.50E-03 | 0.00E+00 | 2.74E-01 | 0.00E+00 | 2.15E-03 | 1.17E-01 | 0.00E+00 | 9.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 1.30E-03 | 0.00E+00 | 1.25E-01 | 0.00E+00 | 1.41E-03 | 5.33E-02 | 0.00E+00 | 1.05E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-166**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.50E-02 | 0.00E+00 | 4.23E-05 | 2.57E-01 | 4.04E-01 | 6.61E-01 | 6.61E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E+00 | 0.00E+00 | 3.27E-02 | 1.13E+01 | 1.88E+01 | 3.01E+01 | 3.02E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.91E-01 | 0.00E+00 | 4.86E-03 | 2.01E+00 | 1.54E+00 | 3.55E+00 | 3.55E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.88E-01 | 0.00E+00 | 3.29E-03 | 2.42E+00 | 1.19E+00 | 3.61E+00 | 3.61E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.29E-01 | 0.00E+00 | 1.82E-02 | 4.79E+00 | 8.90E+00 | 1.37E+01 | 1.37E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.68E-02 | 0.00E+00 | 1.16E-04 | 1.51E-01 | 1.82E-01 | 3.33E-01 | 3.33E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.16E-01 | 0.00E+00 | 4.62E-03 | 7.84E-01 | 7.53E-01 | 1.54E+00 | 1.54E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.50E-02 | 0.00E+00 | 4.23E-05 | 2.57E-01 | 4.04E-01 | 6.61E-01 | 6.61E-01 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.75E-01 | 0.00E+00 | 7.37E-03 | 1.16E-03 | 8.93E-06 | 1.08E+00 | 5.76E-01 | 1.65E+00 | 1.65E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 2.63E-01 | 4.06E-01 | 6.90E-03 | 3.29E+00 | 5.09E-01 | 3.80E+00 | 3.81E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 6.58E-02 | 1.06E-01 | 1.03E-03 | 3.93E-01 | 1.99E-01 | 5.92E-01 | 5.93E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00 | 2.51E-02 | 4.25E-02 | 6.95E-04 | 1.11E+00 | 2.77E-01 | 1.39E+00 | 1.39E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.98E-03 | 0.00E+00 | 7.08E-02 | 1.09E-01 | 3.84E-03 | 4.41E-01 | 1.17E-01 | 5.59E-01 | 5.62E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-02 | 0.00E+00 | 7.60E-03 | 3.76E-03 | 2.45E-05 | 1.91E-02 | 2.58E-02 | 4.49E-02 | 4.50E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 5.57E-02 | 7.40E-02 | 9.75E-04 | 4.92E-01 | 1.68E-01 | 6.60E-01 | 6.61E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.75E-01 | 0.00E+00 | 7.37E-03 | 1.16E-03 | 8.93E-06 | 1.08E+00 | 5.76E-01 | 1.65E+00 | 1.65E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 3.12E-02 | 0.00E+00 | 0.00E+00 | 2.96E-02 | 4.37E-03 | 4.07E-03 | 0.00E+00 | 1.30E-05 | 5.94E-02 | 6.88E-02 | 1.28E-01 | 1.28E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 1.45E-01 | 0.00E+00 | 1.00E-02 | 4.42E+00 | 7.44E-01 | 5.16E+00 | 5.17E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 3.63E-02 | 0.00E+00 | 1.49E-03 | 1.95E-01 | 2.69E-02 | 2.22E-01 | 2.24E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 1.39E-02 | 0.00E+00 | 1.01E-03 | 1.21E-01 | 8.34E-02 | 2.04E-01 | 2.05E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 3.91E-02 | 0.00E+00 | 5.59E-03 | 6.69E-01 | 1.55E-02 | 6.85E-01 | 6.90E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 6.32E-04 | 0.00E+00 | 0.00E+00 | 1.14E-03 | 4.51E-04 | 4.20E-03 | 0.00E+00 | 3.57E-05 | 1.81E-02 | 3.03E-03 | 2.11E-02 | 2.12E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 3.08E-02 | 0.00E+00 | 1.42E-03 | 9.21E-02 | 1.17E-02 | 1.04E-01 | 1.05E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.05E-02 | 6.94E-03 | 6.19E-03 | 9.73E-04 | 2.35E-05 | 5.07E-01 | 7.84E-02 | 5.85E-01 | 5.85E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-02 | 5.62E-02 | 2.21E-01 | 3.41E-01 | 1.82E-02 | 2.33E+01 | 4.09E-01 | 2.37E+01 | 2.37E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.31E-02 | 5.52E-02 | 8.86E-02 | 2.70E-03 | 1.76E+00 | 1.23E-01 | 1.88E+00 | 1.88E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 1.99E-03 | 2.11E-02 | 3.57E-02 | 1.83E-03 | 9.67E-01 | 6.64E-02 | 1.03E+00 | 1.04E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-04 | 5.27E-03 | 5.94E-02 | 9.16E-02 | 1.01E-02 | 8.75E+00 | 9.79E-02 | 8.85E+00 | 8.86E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-03 | 7.16E-04 | 6.38E-03 | 3.15E-03 | 6.45E-05 | 1.88E-01 | 6.57E-03 | 1.95E-01 | 1.95E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.07E-03 | 4.68E-02 | 6.21E-02 | 2.57E-03 | 7.98E-01 | 7.57E-02 | 8.73E-01 | 8.76E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-166**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5E-01 | 2E-01 | 9E-01 | 3E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Barium** | 5E-01 | 3E-01 | 9E-01 | 5E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 8E-01 | 7E-01 | 6E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **3E+00** | **1E+00** | **5E+00** | **3E+00** | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Mercury** | **7E+00** | **2E+00** | **8E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **6E+00** | **2E+00** | **9E+00** | **3E+00** | **2E+01** | **5E+00** | **2E+01** | **5E+00** |
| **Hawk - mid** | **tPCB-med** | **2E+00** | 8E-01 | **1E+00** | 4E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | 2E-01 | 8E-02 | 2E-02 | 1E-02 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 7E-02 | 7E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 4E-02 | 4E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 1E-01 | 7E-02 | 4E-02 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | 8E-01 | 3E-01 | **1E+00** | 4E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Vanadium** | **1E+00** | 7E-01 | 5E-01 | 2E-01 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| **Hawk - high** | **tPCB-high** | **2E+01** | **8E+00** | **1E+01** | **4E+00** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Raccoon - 1** | **tPCB** | 3E-01 | 9E-02 | 3E-01 | 1E-01 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 1E-02 | 1E-02 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 1E-01 | 8E-02 | 3E-03 | 2E-03 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Mercury** | 2E-01 | 1E-01 | 4E-02 | 2E-02 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 2E-02 | 1E-02 | 3E-03 | 1E-03 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Shrew - 2** | **tPCB** | **2E+00** | 7E-01 | 3E-01 | 1E-01 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 4E-01 | 2E-01 | 8E-03 | 3E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 5E-02 | 4E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 9E-03 | 7E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 2E-02 | 1E-02 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **3E+00** | **1E+00** | 9E-02 | 4E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-02 | 9E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-167**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **3.27E-01** | **2.54E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.16E+02** | **8.88E+01** | **1.21E-01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.41E+01** | **2.31E+01** | **1.80E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.90E+00** | **9.30E+00** | **1.22E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.86E+01** | **2.39E+01** | **6.73E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **5.18E-01** | **8.22E-01** | **4.30E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.70E+01** | **1.62E+01** | **1.71E-02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | **3.27E-01** | **2.54E-01** | **1.57E-04** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | **3.27E-01** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.16E+02** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.41E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.90E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.86E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **5.18E-01** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.70E+01** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | **3.27E-01** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **3.27E-01** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **1.16E+02** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **1.41E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **7.90E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **1.86E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **5.18E-01** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **2.70E+01** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Shrew - 2** | **tPCB** | **3.27E-01** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.16E+02** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.41E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **7.90E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.86E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **5.18E-01** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.70E+01** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-167**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 |

**Table E3-167**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-167**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 9.37E-03 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.53E-03 | 0.00E+00 | 0.00E+00 | 8.72E-02 | 0.00E+00 | 6.92E-03 | 0.00E+00 | 1.80E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 9.37E-03 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.40E-02 | 0.00E+00 | 2.58E-04 | 1.40E-02 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 0.00E+00 | 3.64E-03 | 3.12E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 7.06E-04 | 0.00E+00 | 6.40E-03 | 0.00E+00 | 1.69E-04 | 6.40E-03 | 0.00E+00 | 2.35E-04 | 0.00E+00 | 0.00E+00 | 8.16E-04 | 6.32E-04 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 9.50E-03 | 0.00E+00 | 2.74E-01 | 0.00E+00 | 2.15E-03 | 1.17E-01 | 0.00E+00 | 9.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-03 | 0.00E+00 | 1.25E-01 | 0.00E+00 | 1.41E-03 | 5.33E-02 | 0.00E+00 | 1.05E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-167**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.12E-02 | 0.00E+00 | 4.23E-05 | 2.13E-01 | 4.04E-01 | 6.17E-01 | 6.17E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 3.96E+00 | 0.00E+00 | 3.27E-02 | 1.33E+01 | 1.88E+01 | 3.21E+01 | 3.22E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.81E-01 | 0.00E+00 | 4.86E-03 | 2.00E+00 | 1.54E+00 | 3.54E+00 | 3.54E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.70E-01 | 0.00E+00 | 3.29E-03 | 2.50E+00 | 1.19E+00 | 3.69E+00 | 3.70E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 6.35E-01 | 0.00E+00 | 1.82E-02 | 4.89E+00 | 8.90E+00 | 1.38E+01 | 1.38E+01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.77E-02 | 0.00E+00 | 1.16E-04 | 1.12E-01 | 1.82E-01 | 2.94E-01 | 2.94E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 9.21E-01 | 0.00E+00 | 4.62E-03 | 1.29E+00 | 7.53E-01 | 2.04E+00 | 2.05E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.12E-02 | 0.00E+00 | 4.23E-05 | 2.13E-01 | 4.04E-01 | 6.17E-01 | 6.17E-01 | 4.33E-02 | 1.30E-01 |
| **Hawk - mid** | **tPCB-med** | 5.75E-01 | 0.00E+00 | 1.49E-03 | 1.16E-03 | 8.93E-06 | 1.07E+00 | 5.76E-01 | 1.65E+00 | 1.65E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 1.03E-01 | 0.00E+00 | 5.30E-01 | 4.06E-01 | 6.90E-03 | 3.56E+00 | 5.09E-01 | 4.07E+00 | 4.08E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 9.39E-02 | 0.00E+00 | 6.44E-02 | 1.06E-01 | 1.03E-03 | 3.91E-01 | 1.99E-01 | 5.91E-01 | 5.92E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 2.35E-01 | 0.00E+00 | 3.61E-02 | 4.25E-02 | 6.95E-04 | 1.13E+00 | 2.77E-01 | 1.40E+00 | 1.40E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 7.98E-03 | 0.00E+00 | 8.50E-02 | 1.09E-01 | 3.84E-03 | 4.56E-01 | 1.17E-01 | 5.73E-01 | 5.77E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 2.21E-02 | 0.00E+00 | 2.37E-03 | 3.76E-03 | 2.45E-05 | 1.39E-02 | 2.58E-02 | 3.97E-02 | 3.97E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 9.39E-02 | 0.00E+00 | 1.23E-01 | 7.40E-02 | 9.75E-04 | 5.59E-01 | 1.68E-01 | 7.27E-01 | 7.28E-01 | 3.44E-01 | 7.00E-01 |
| **Hawk - high** | **tPCB-high** | 5.75E-01 | 0.00E+00 | 1.49E-03 | 1.16E-03 | 8.93E-06 | 1.07E+00 | 5.76E-01 | 1.65E+00 | 1.65E+00 | 4.33E-02 | 1.30E-01 |
| **Raccoon - 1** | **tPCB** | 2.96E-02 | 4.37E-03 | 8.25E-04 | 0.00E+00 | 1.30E-05 | 5.61E-02 | 6.88E-02 | 1.25E-01 | 1.25E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 5.32E-03 | 3.54E-02 | 2.93E-01 | 0.00E+00 | 1.00E-02 | 4.57E+00 | 7.44E-01 | 5.31E+00 | 5.32E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 4.83E-03 | 1.45E-02 | 3.56E-02 | 0.00E+00 | 1.49E-03 | 1.95E-01 | 2.69E-02 | 2.21E-01 | 2.23E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 1.21E-02 | 1.25E-03 | 1.99E-02 | 0.00E+00 | 1.01E-03 | 1.27E-01 | 8.34E-02 | 2.10E-01 | 2.11E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 4.11E-04 | 3.32E-03 | 4.69E-02 | 0.00E+00 | 5.59E-03 | 6.77E-01 | 1.55E-02 | 6.93E-01 | 6.98E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 1.14E-03 | 4.51E-04 | 1.31E-03 | 0.00E+00 | 3.57E-05 | 1.52E-02 | 3.03E-03 | 1.82E-02 | 1.83E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 4.83E-03 | 1.30E-03 | 6.81E-02 | 0.00E+00 | 1.42E-03 | 1.29E-01 | 1.17E-02 | 1.41E-01 | 1.43E-01 | 4.16E+00 | 8.31E+00 |
| **Shrew - 2** | **tPCB** | 7.05E-02 | 6.94E-03 | 1.25E-03 | 9.73E-04 | 2.35E-05 | 5.02E-01 | 7.84E-02 | 5.80E-01 | 5.80E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 1.27E-02 | 5.62E-02 | 4.45E-01 | 3.41E-01 | 1.82E-02 | 2.35E+01 | 4.09E-01 | 2.39E+01 | 2.39E+01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 1.15E-02 | 2.31E-02 | 5.41E-02 | 8.86E-02 | 2.70E-03 | 1.75E+00 | 1.23E-01 | 1.88E+00 | 1.88E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 2.88E-02 | 1.99E-03 | 3.03E-02 | 3.57E-02 | 1.83E-03 | 9.76E-01 | 6.64E-02 | 1.04E+00 | 1.04E+00 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 9.79E-04 | 5.27E-03 | 7.13E-02 | 9.16E-02 | 1.01E-02 | 8.76E+00 | 9.79E-02 | 8.86E+00 | 8.87E+00 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 2.71E-03 | 7.16E-04 | 1.99E-03 | 3.15E-03 | 6.45E-05 | 1.84E-01 | 6.57E-03 | 1.91E-01 | 1.91E-01 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 1.15E-02 | 2.07E-03 | 1.04E-01 | 6.21E-02 | 2.57E-03 | 8.54E-01 | 7.57E-02 | 9.30E-01 | 9.33E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-167**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C9, Subarea Soil - South**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5E-01 | 2E-01 | 9E-01 | 3E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 6E-01 | 3E-01 | 9E-01 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 8E-01 | 7E-01 | 6E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **3E+00** | **2E+00** | **5E+00** | **3E+00** | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Mercury** | **5E+00** | **2E+00** | **8E+00** | **3E+00** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Vanadium** | **4E+00** | **2E+00** | **2E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **5E+00** | **2E+00** | **9E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Hawk - mid** | **tPCB-med** | **2E+00** | 8E-01 | **1E+00** | 4E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | 2E-01 | 9E-02 | 2E-02 | 1E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 1E-01 | 1E-01 | 7E-02 | 7E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 4E-02 | 4E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 1E-01 | 7E-02 | 4E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | 6E-01 | 2E-01 | **1E+00** | 4E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Vanadium** | **2E+00** | 8E-01 | 5E-01 | 2E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **2E+01** | **8E+00** | **1E+01** | **4E+00** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Raccoon - 1** | **tPCB** | 2E-01 | 8E-02 | 3E-01 | 1E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Barium** | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 8E-02 | 7E-02 | 1E-02 | 1E-02 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Cobalt** | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 1E-01 | 8E-02 | 3E-03 | 2E-03 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Mercury** | 2E-01 | 1E-01 | 4E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 3E-02 | 2E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **2E+00** | 7E-01 | 3E-01 | 1E-01 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 5E-01 | 2E-01 | 8E-03 | 3E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 7E-01 | 6E-01 | 5E-02 | 4E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 9E-03 | 7E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **2E+00** | 1E+00 | 2E-02 | 1E-02 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | **2E+00** | **1E+00** | 9E-02 | 4E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-02 | 9E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-168**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C9, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **9.70E+00** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **9.70E+00** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Vanadium** | **9.70E+00** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 2** | **tPCB-mink** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Vanadium** | **9.70E+00** | **1.62E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Raccoon - 1** | **tPCB** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **9.70E+00** | **1.62E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Raccoon - 2** | **tPCB** | **2.27E+00** | **2.54E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Barium** | **5.76E+01** | **8.88E+01** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Chromium** | **1.44E+01** | **2.31E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Cobalt** | **5.50E+00** | **9.30E+00** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Lead** | **1.55E+01** | **2.39E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Vanadium** | **9.70E+00** | **1.62E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |

**Table E3-168**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C9, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| **GBH - mid** | **tPCB-med** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **GBH - high** | **tPCB-high** | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 1** | **tPCB** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |

**Table E3-168**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C9, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 9.69E-02 | 4.65E-01 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E+00 | 2.04E+01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 1.73E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.96E-01 | 5.06E-01 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 1.03E+01 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.24E-02 | 2.12E-01 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.28E-01 | 8.38E-01 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 9.69E-02 | 4.65E-01 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.11E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.11E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.46E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 9.62E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.40E-02 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 6.40E-03 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.95E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.19E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 8.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-168**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C9, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.64E-02 | 4.07E-03 | 2.66E-05 | 5.02E-01 | 1.01E-01 | 6.03E-01 | 6.03E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.23E-01 | 1.42E+00 | 2.06E-02 | 2.13E+01 | 6.76E+00 | 2.81E+01 | 2.81E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.31E-01 | 3.70E-01 | 3.06E-03 | 1.96E+00 | 7.14E-01 | 2.67E+00 | 2.68E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.81E-02 | 1.49E-01 | 2.07E-03 | 5.94E-01 | 5.45E-01 | 1.14E+00 | 1.14E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.48E-01 | 3.83E-01 | 1.14E-02 | 1.05E+01 | 9.17E-01 | 1.15E+01 | 1.15E+01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 1.32E-02 | 7.31E-05 | 2.40E-01 | 5.55E-02 | 2.95E-01 | 2.95E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.55E-01 | 2.60E-01 | 2.91E-03 | 9.93E-01 | 4.87E-01 | 1.48E+00 | 1.48E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.64E-02 | 4.07E-03 | 2.66E-05 | 5.02E-01 | 1.01E-01 | 6.03E-01 | 6.03E-01 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-02 | 0.00E+00 | 0.00E+00 | 1.84E-03 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.83E-02 | 0.00E+00 | 8.94E-04 | 7.05E-06 | 2.70E-02 | 8.78E+00 | 8.81E+00 | 8.81E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 | 0.00E+00 | 0.00E+00 | 3.51E-01 | 2.45E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 3.13E-01 | 5.45E-03 | 7.65E-02 | 3.42E+00 | 3.50E+00 | 3.50E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-03 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 7.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 8.13E-02 | 8.10E-04 | 8.25E-03 | 9.65E-01 | 9.73E-01 | 9.74E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 7.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 3.28E-02 | 5.49E-04 | 2.75E-02 | 1.54E-01 | 1.82E-01 | 1.82E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.35E-03 | 0.00E+00 | 0.00E+00 | 5.78E-03 | 9.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 0.00E+00 | 8.42E-02 | 3.03E-03 | 9.35E-03 | 2.10E-01 | 2.19E-01 | 2.22E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.91E-04 | 0.00E+00 | 0.00E+00 | 4.12E-04 | 1.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.94E-03 | 0.00E+00 | 2.89E-03 | 1.94E-05 | 2.91E-04 | 1.84E-01 | 1.85E-01 | 1.85E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 1.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 5.70E-02 | 7.70E-04 | 1.10E-02 | 2.68E-01 | 2.79E-01 | 2.79E-01 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-02 | 0.00E+00 | 0.00E+00 | 1.84E-03 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.83E-02 | 0.00E+00 | 8.94E-04 | 7.05E-06 | 2.70E-02 | 8.78E+00 | 8.81E+00 | 8.81E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-01 | 0.00E+00 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 0.00E+00 | 3.48E-01 | 0.00E+00 | 6.98E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.34E-01 | 4.23E-01 | 7.57E-01 | 7.57E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-01 | 0.00E+00 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 0.00E+00 | 3.48E-01 | 0.00E+00 | 6.98E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.34E-01 | 4.23E-01 | 7.57E-01 | 7.57E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.45E-01 | 0.00E+00 | 0.00E+00 | 8.87E-01 | 0.00E+00 | 0.00E+00 | 3.42E-01 | 0.00E+00 | 5.66E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 9.45E-01 | 1.80E+00 | 2.74E+00 | 2.75E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 2.32E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.02E-01 | 3.54E-01 | 4.56E-01 | 4.58E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 2.00E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 3.10E-01 | 6.50E-01 | 6.51E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 0.00E+00 | 0.00E+00 | 2.15E-02 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.16E-01 | 8.91E-02 | 2.05E-01 | 2.11E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 0.00E+00 | 0.00E+00 | 1.04E-03 | 0.00E+00 | 0.00E+00 | 6.71E-03 | 0.00E+00 | 7.20E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 3.59E-03 | 1.50E-02 | 1.85E-02 | 1.86E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 0.00E+00 | 2.08E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 3.93E-02 | 1.75E-01 | 1.77E-01 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.56E-02 | 0.00E+00 | 0.00E+00 | 2.07E-03 | 0.00E+00 | 0.00E+00 | 1.43E+00 | 0.00E+00 | 8.06E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.56E-02 | 1.44E+00 | 1.48E+00 | 1.48E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.56E-02 | 0.00E+00 | 0.00E+00 | 2.07E-03 | 0.00E+00 | 0.00E+00 | 1.43E+00 | 0.00E+00 | 8.06E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.56E-02 | 1.44E+00 | 1.48E+00 | 1.48E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 3.94E-01 | 0.00E+00 | 0.00E+00 | 1.40E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.29E-01 | 1.90E+00 | 2.02E+00 | 2.04E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 4.73E-01 | 0.00E+00 | 2.68E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.39E-02 | 5.04E-01 | 5.18E-01 | 5.19E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.80E-01 | 9.27E-01 | 9.28E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 6.50E-03 | 0.00E+00 | 0.00E+00 | 8.80E-02 | 0.00E+00 | 6.11E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.58E-02 | 1.04E-01 | 1.20E-01 | 1.27E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.90E-04 | 0.00E+00 | 0.00E+00 | 4.63E-04 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 8.31E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 4.90E-04 | 2.88E-02 | 2.93E-02 | 2.93E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 5.05E-02 | 0.00E+00 | 2.40E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 5.66E-02 | 7.52E-02 | 7.69E-02 |
| **Raccoon - 1** | **tPCB** | 2.58E-04 | 1.40E-02 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 0.00E+00 | 3.64E-03 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 2.96E-02 | 4.37E-03 | 5.73E-03 | 0.00E+00 | 1.30E-05 | 6.10E-02 | 6.88E-02 | 1.30E-01 | 1.30E-01 |
| | **Barium** | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 1.45E-01 | 0.00E+00 | 1.00E-02 | 4.42E+00 | 7.44E-01 | 5.16E+00 | 5.17E+00 |
| | **Chromium** | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 3.63E-02 | 0.00E+00 | 1.49E-03 | 1.95E-01 | 2.69E-02 | 2.22E-01 | 2.24E-01 |
| | **Cobalt** | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 1.39E-02 | 0.00E+00 | 1.01E-03 | 1.21E-01 | 8.34E-02 | 2.04E-01 | 2.05E-01 |
| | **Lead** | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 3.91E-02 | 0.00E+00 | 5.59E-03 | 6.69E-01 | 1.55E-02 | 6.85E-01 | 6.90E-01 |
| | **Mercury** | 1.69E-04 | 6.40E-03 | 0.00E+00 | 2.35E-04 | 0.00E+00 | 0.00E+00 | 8.16E-04 | 6.32E-04 | 0.00E+00 | 0.00E+00 | 1.14E-03 | 4.51E-04 | 4.33E-03 | 0.00E+00 | 3.57E-05 | 1.82E-02 | 3.03E-03 | 2.13E-02 | 2.13E-02 |
| | **Vanadium** | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 2.45E-02 | 0.00E+00 | 1.42E-03 | 8.58E-02 | 1.17E-02 | 9.75E-02 | 9.89E-02 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.83E-02 | 8.76E-04 | 4.17E-02 | 3.64E-03 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E-02 | 0.00E+00 | 6.40E-04 | 1.30E-05 | 7.83E-02 | 3.92E-01 | 4.71E-01 | 4.71E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-01 | 4.83E-02 | 1.19E-01 | 6.95E-01 | 9.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 2.24E-01 | 1.00E-02 | 2.21E-01 | 1.64E+00 | 1.86E+00 | 1.87E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-02 | 3.11E-03 | 4.68E-02 | 4.84E-03 | 2.81E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-02 | 0.00E+00 | 5.83E-02 | 1.49E-03 | 2.39E-02 | 2.13E-01 | 2.37E-01 | 2.39E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-02 | 3.58E-03 | 1.35E-02 | 6.97E-02 | 2.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-03 | 0.00E+00 | 2.35E-02 | 1.01E-03 | 7.96E-02 | 2.76E-01 | 3.56E-01 | 3.57E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-02 | 4.83E-03 | 1.56E-02 | 1.15E-02 | 3.38E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 6.03E-02 | 5.59E-03 | 2.71E-02 | 1.41E-01 | 1.68E-01 | 1.74E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.41E-04 | 3.83E-04 | 3.01E-03 | 8.16E-04 | 6.60E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 0.00E+00 | 2.07E-03 | 3.57E-05 | 8.41E-04 | 1.50E-02 | 1.58E-02 | 1.59E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 | 2.06E-03 | 6.56E-03 | 4.84E-03 | 7.33E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-03 | 0.00E+00 | 4.09E-02 | 1.42E-03 | 3.19E-02 | 7.57E-02 | 1.08E-01 | 1.09E-01 |

**Table E3-168**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C9, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | 2E-01 | 7E-02 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 2.08E+01 | 4.17E+01 | 1E+00 | 5E-01 | 3E-01 | 2E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 7E-01 | 7E-01 | 3E-01 | 3E-01 | 1E+00 | 1E+00 | 1E+00 | 1E+00 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 8E-02 | 8E-02 | 7E-02 | 7E-02 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **6E+00** | **3E+00** | 6E-01 | 3E-01 | **7E+00** | **4E+00** | **7E+00** | **4E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **1E+01** | **4E+00** | **2E+00** | 8E-01 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **3E+00** | **1E+00** | **1E+00** | 7E-01 | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+01** | **4E+00** | **2E+00** | 8E-01 | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **GBH - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 6E-02 | 2E-02 | **2E+01** | **6E+00** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 4E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 4E-01 | 3E-01 | 4E-01 | 3E-01 | 4E-01 | 3E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 1E-01 | 6E-02 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 1E-02 | 4E-03 | **8E+00** | **3E+00** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 8E-01 | 4E-01 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| **GBH - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | 6E-01 | 2E-01 | **2E+02** | **7E+01** | **2E+02** | **7E+01** | **2E+02** | **7E+01** |
| **Mink - 1** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | **7E+00** | **3E+00** | **8E+00** | **4E+00** | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | **7E+00** | **--** | **8E+00** | **--** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-02 | 8E-03 | 3E-02 | 1E-02 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 4E-02 | 4E-02 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 | 6E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 5E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 5E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Mink - 2** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | 9E-01 | 5E-01 | **3E+01** | **1E+01** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | 9E-01 | **--** | **3E+01** | **--** | **3E+01** | **--** | **3E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 6E-03 | 5E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 2E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 7E-03 | 3E-03 | 4E-01 | 2E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-01 | 9E-02 | 3E-01 | 1E-01 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 8E-02 | 7E-02 | 1E-02 | 1E-02 | 9E-02 | 8E-02 | 9E-02 | 8E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 1E-01 | 8E-02 | 3E-03 | 2E-03 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 2E-01 | 1E-01 | 4E-02 | 2E-02 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-03 | 1E-03 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | **2E+00** | 6E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 4E-03 | 2E-03 | 3E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-02 | 8E-03 | 9E-02 | 8E-02 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 5E-02 | 4E-02 | 5E-02 | 4E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 1E-02 | 6E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 2E-02 | 9E-03 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-169**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C9, Subarea Soil - North**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **1.61E+00** | **2.54E-01** | 1.00E+01 | 1.93E-02 | NA | 1.93E-02 | 7.73E-01 | -- | 7.73E-01 | 2.80E+01 | 6.60E+01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| | **Mercury** | **1.66E+00** | **8.22E-01** | 8.00E-01 | 5.33E-03 | NA | 5.34E-03 | 1.71E-02 | -- | 1.71E-02 | 4.40E-01 | 8.00E-01 | 4E-02 | 2E-02 | -- | -- | 4E-02 | 2E-02 |
| **Mourning Dove - high** | **tPCB-high** | **1.61E+00** | **2.54E-01** | 1.00E+01 | 1.93E-02 | NA | 1.93E-02 | 7.73E-01 | -- | 7.73E-01 | 2.10E+00 | 4.50E+00 | 4E-01 | 2E-01 | -- | -- | 4E-01 | 2E-01 |
| **Blue Jay - mid** | **tPCB-med** | **1.61E+00** | **2.54E-01** | 1.00E+01 | 2.32E-02 | NA | 2.32E-02 | 9.28E-01 | -- | 9.28E-01 | 2.80E+01 | 6.60E+01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| | **Mercury** | **1.66E+00** | **8.22E-01** | 8.00E-01 | 8.30E-03 | NA | 8.31E-03 | 2.66E-02 | -- | 2.66E-02 | 4.40E-01 | 8.00E-01 | 6E-02 | 3E-02 | -- | -- | 6E-02 | 3E-02 |
| **Blue Jay - high** | **tPCB-high** | **1.61E+00** | **2.54E-01** | 1.00E+01 | 2.32E-02 | NA | 2.32E-02 | 9.28E-01 | -- | 9.28E-01 | 2.10E+00 | 4.50E+00 | 4E-01 | 2E-01 | -- | -- | 4E-01 | 2E-01 |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **1.61E+00** | **2.54E-01** | 1.00E+01 | 1.79E-02 | NA | 1.79E-02 | 7.15E-01 | -- | 7.15E-01 | 2.80E+01 | 6.60E+01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| | **Mercury** | **1.66E+00** | **8.22E-01** | 8.00E-01 | 7.82E-03 | NA | 7.82E-03 | 2.50E-02 | -- | 2.50E-02 | 4.40E-01 | 8.00E-01 | 6E-02 | 3E-02 | -- | -- | 6E-02 | 3E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1.61E+00** | **2.54E-01** | 1.00E+01 | 1.79E-02 | NA | 1.79E-02 | 7.15E-01 | -- | 7.15E-01 | 2.10E+00 | 4.50E+00 | 3E-01 | 2E-01 | -- | -- | 3E-01 | 2E-01 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1.61E+00** | **2.54E-01** | 1.00E+01 | 6.84E-03 | 9.96E-04 | 7.84E-03 | 2.74E-01 | 3.98E-02 | 3.14E-01 | 2.80E+01 | 6.60E+01 | 1E-02 | 4E-03 | 1E-03 | 6E-04 | 1E-02 | 5E-03 |
| | **Mercury** | **1.66E+00** | **8.22E-01** | 8.00E-01 | 3.46E-03 | 2.69E-03 | 6.15E-03 | 1.11E-02 | 8.61E-03 | 1.97E-02 | 4.40E-01 | 8.00E-01 | 3E-02 | 1E-02 | 2E-02 | 1E-02 | 4E-02 | 2E-02 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **1.61E+00** | **2.54E-01** | 1.00E+01 | 6.84E-03 | 9.96E-04 | 7.84E-03 | 2.74E-01 | 3.98E-02 | 3.14E-01 | 2.10E+00 | 4.50E+00 | 1E-01 | 6E-02 | 2E-02 | 9E-03 | 1E-01 | 7E-02 |
| **Hawk - mid** | **tPCB-med** | **1.61E+00** | **2.54E-01** | 1.00E+01 | 2.14E-01 | 7.26E-02 | 2.87E-01 | 8.57E+00 | 2.91E+00 | 1.15E+01 | 2.80E+01 | 6.60E+01 | 3E-01 | 1E-01 | 1E-01 | 4E-02 | 4E-01 | 2E-01 |
| | **Mercury** | **1.66E+00** | **8.22E-01** | 8.00E-01 | 2.60E-02 | 1.65E-02 | 4.25E-02 | 8.34E-02 | 5.27E-02 | 1.36E-01 | 4.40E-01 | 8.00E-01 | 2E-01 | 1E-01 | 1E-01 | 7E-02 | 3E-01 | 2E-01 |
| **Hawk - high** | **tPCB-high** | **1.61E+00** | **2.54E-01** | 1.00E+01 | 2.14E-01 | 7.26E-02 | 2.87E-01 | 8.57E+00 | 2.91E+00 | 1.15E+01 | 2.10E+00 | 4.50E+00 | **4E+00** | **2E+00** | **1E+00** | 6E-01 | **5E+00** | **3E+00** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-170**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C9, Subarea Soil - South**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Mourning Dove - mid** | **tPCB-med** | **3.27E-01** | **2.54E-01** | 1.00E+01 | 5.53E-03 | NA | 5.53E-03 | 2.21E-01 | -- | 2.21E-01 | 2.80E+01 | 6.60E+01 | 8E-03 | 3E-03 | -- | -- | 8E-03 | 3E-03 |
| | **Mercury** | **5.18E-01** | **8.22E-01** | 8.00E-01 | 1.66E-03 | NA | 1.67E-03 | 5.31E-03 | -- | 5.33E-03 | 4.40E-01 | 8.00E-01 | 1E-02 | 7E-03 | -- | -- | 1E-02 | 7E-03 |
| **Mourning Dove - high** | **tPCB-high** | **3.27E-01** | **2.54E-01** | 1.00E+01 | 5.53E-03 | NA | 5.53E-03 | 2.21E-01 | -- | 2.21E-01 | 2.10E+00 | 4.50E+00 | 1E-01 | 5E-02 | -- | -- | 1E-01 | 5E-02 |
| **Blue Jay - mid** | **tPCB-med** | **3.27E-01** | **2.54E-01** | 1.00E+01 | 5.04E-03 | NA | 5.05E-03 | 2.02E-01 | -- | 2.02E-01 | 2.80E+01 | 6.60E+01 | 7E-03 | 3E-03 | -- | -- | 7E-03 | 3E-03 |
| | **Mercury** | **5.18E-01** | **8.22E-01** | 8.00E-01 | 3.28E-03 | NA | 3.29E-03 | 1.05E-02 | -- | 1.05E-02 | 4.40E-01 | 8.00E-01 | 2E-02 | 1E-02 | -- | -- | 2E-02 | 1E-02 |
| **Blue Jay - high** | **tPCB-high** | **3.27E-01** | **2.54E-01** | 1.00E+01 | 5.04E-03 | NA | 5.05E-03 | 2.02E-01 | -- | 2.02E-01 | 2.10E+00 | 4.50E+00 | 1E-01 | 4E-02 | -- | -- | 1E-01 | 4E-02 |
| **Carolina Wren - 1 - mid** | **tPCB-med** | **3.27E-01** | **2.54E-01** | 1.00E+01 | 2.68E-03 | NA | 2.68E-03 | 1.07E-01 | -- | 1.07E-01 | 2.80E+01 | 6.60E+01 | 4E-03 | 2E-03 | -- | -- | 4E-03 | 2E-03 |
| | **Mercury** | **5.18E-01** | **8.22E-01** | 8.00E-01 | 3.50E-03 | NA | 3.50E-03 | 1.12E-02 | -- | 1.12E-02 | 4.40E-01 | 8.00E-01 | 3E-02 | 1E-02 | -- | -- | 3E-02 | 1E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **3.27E-01** | **2.54E-01** | 1.00E+01 | 2.68E-03 | NA | 2.68E-03 | 1.07E-01 | -- | 1.07E-01 | 2.10E+00 | 4.50E+00 | 5E-02 | 2E-02 | -- | -- | 5E-02 | 2E-02 |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **3.27E-01** | **2.54E-01** | 1.00E+01 | 1.07E-03 | 9.96E-04 | 2.06E-03 | 4.26E-02 | 3.98E-02 | 8.24E-02 | 2.80E+01 | 6.60E+01 | 2E-03 | 6E-04 | 1E-03 | 6E-04 | 3E-03 | 1E-03 |
| | **Mercury** | **5.18E-01** | **8.22E-01** | 8.00E-01 | 1.43E-03 | 2.69E-03 | 4.12E-03 | 4.56E-03 | 8.61E-03 | 1.32E-02 | 4.40E-01 | 8.00E-01 | 1E-02 | 6E-03 | 2E-02 | 1E-02 | 3E-02 | 2E-02 |
| **Carolina Wren - 2 - high** | **tPCB-high** | **3.27E-01** | **2.54E-01** | 1.00E+01 | 1.07E-03 | 9.96E-04 | 2.06E-03 | 4.26E-02 | 3.98E-02 | 8.24E-02 | 2.10E+00 | 4.50E+00 | 2E-02 | 9E-03 | 2E-02 | 9E-03 | 4E-02 | 2E-02 |
| **Hawk - mid** | **tPCB-med** | **3.27E-01** | **2.54E-01** | 1.00E+01 | 8.81E-02 | 7.26E-02 | 1.61E-01 | 3.52E+00 | 2.91E+00 | 6.43E+00 | 2.80E+01 | 6.60E+01 | 1E-01 | 5E-02 | 1E-01 | 4E-02 | 2E-01 | 1E-01 |
| | **Mercury** | **5.18E-01** | **8.22E-01** | 8.00E-01 | 8.11E-03 | 1.65E-02 | 2.46E-02 | 2.59E-02 | 5.27E-02 | 7.86E-02 | 4.40E-01 | 8.00E-01 | 6E-02 | 3E-02 | 1E-01 | 7E-02 | 2E-01 | 1E-01 |
| **Hawk - high** | **tPCB-high** | **3.27E-01** | **2.54E-01** | 1.00E+01 | 8.81E-02 | 7.26E-02 | 1.61E-01 | 3.52E+00 | 2.91E+00 | 6.43E+00 | 2.10E+00 | 4.50E+00 | **2E+00** | 8E-01 | **1E+00** | 6E-01 | **3E+00** | **1E+00** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-171**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**Reach C9, Aquatic and Subarea Soil - Riparian**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values Bird Egg | | HQs (unitless) Bird Egg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Tree Swallow - mid** | **tPCB-med** | **2.27E+00** | **2.54E-01** | 1.00E+01 | NA | 7.20E-04 | 7.21E-04 | -- | 2.88E-02 | 2.88E-02 | 2.80E+01 | 6.60E+01 | -- | -- | 1E-03 | 4E-04 | 1E-03 | 4E-04 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | 8.00E-01 | NA | 5.51E-04 | 5.53E-04 | -- | 1.76E-03 | 1.77E-03 | 4.40E-01 | 8.00E-01 | -- | -- | 4E-03 | 2E-03 | 4E-03 | 2E-03 |
| **Tree Swallow - high** | **tPCB-high** | **2.27E+00** | **2.54E-01** | 1.00E+01 | NA | 7.20E-04 | 7.21E-04 | -- | 2.88E-02 | 2.88E-02 | 2.10E+00 | 4.50E+00 | -- | -- | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **2.27E+00** | **2.54E-01** | 1.00E+01 | 4.04E-02 | 7.34E-04 | 4.11E-02 | 1.61E+00 | 2.94E-02 | 1.64E+00 | 2.80E+01 | 6.60E+01 | 6E-02 | 2E-02 | 1E-03 | 4E-04 | 6E-02 | 2E-02 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | 8.00E-01 | 1.24E-02 | 1.71E-03 | 1.41E-02 | 3.97E-02 | 5.46E-03 | 4.51E-02 | 4.40E-01 | 8.00E-01 | 9E-02 | 5E-02 | 1E-02 | 7E-03 | 1E-01 | 6E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **2.27E+00** | **2.54E-01** | 1.00E+01 | 4.04E-02 | 7.34E-04 | 4.11E-02 | 1.61E+00 | 2.94E-02 | 1.64E+00 | 2.10E+00 | 4.50E+00 | 8E-01 | 4E-01 | 1E-02 | 7E-03 | 8E-01 | 4E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **2.27E+00** | **2.54E-01** | 1.00E+01 | NA | 9.07E-02 | 9.07E-02 | -- | 3.63E+00 | 3.63E+00 | 2.80E+01 | 6.60E+01 | -- | -- | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | 8.00E-01 | NA | 5.42E-03 | 5.42E-03 | -- | 1.73E-02 | 1.74E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **2.27E+00** | **2.54E-01** | 1.00E+01 | NA | 9.07E-02 | 9.07E-02 | -- | 3.63E+00 | 3.63E+00 | 2.10E+00 | 4.50E+00 | -- | -- | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **2.27E+00** | **2.54E-01** | 1.00E+01 | NA | 1.14E-01 | 1.14E-01 | -- | 4.58E+00 | 4.58E+00 | 2.80E+01 | 6.60E+01 | -- | -- | 2E-01 | 7E-02 | 2E-01 | 7E-02 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | 8.00E-01 | NA | 9.17E-03 | 9.18E-03 | -- | 2.93E-02 | 2.94E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 7E-02 | 4E-02 | 7E-02 | 4E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **2.27E+00** | **2.54E-01** | 1.00E+01 | NA | 1.14E-01 | 1.14E-01 | -- | 4.58E+00 | 4.58E+00 | 2.10E+00 | 4.50E+00 | -- | -- | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **2.27E+00** | **2.54E-01** | 1.00E+01 | NA | 8.83E-02 | 8.83E-02 | -- | 3.53E+00 | 3.53E+00 | 2.80E+01 | 6.60E+01 | -- | -- | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | 8.00E-01 | NA | 8.47E-03 | 8.47E-03 | -- | 2.71E-02 | 2.71E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **2.27E+00** | **2.54E-01** | 1.00E+01 | NA | 8.83E-02 | 8.83E-02 | -- | 3.53E+00 | 3.53E+00 | 2.10E+00 | 4.50E+00 | -- | -- | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **GBH - mid** | **tPCB-med** | **2.27E+00** | **2.54E-01** | 1.00E+01 | 1.31E-02 | 2.18E+00 | 2.19E+00 | 5.25E-01 | 8.71E+01 | 8.76E+01 | 2.80E+01 | 6.60E+01 | 2E-02 | 8E-03 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | **1.72E+00** | **8.22E-01** | 8.00E-01 | 9.64E-04 | 1.89E-01 | 1.90E-01 | 3.08E-03 | 6.06E-01 | 6.09E-01 | 4.40E-01 | 8.00E-01 | 7E-03 | 4E-03 | **1E+00** | 8E-01 | **1E+00** | 8E-01 |
| **GBH - high** | **tPCB-high** | **2.27E+00** | **2.54E-01** | 1.00E+01 | 1.31E-02 | 2.18E+00 | 2.19E+00 | 5.25E-01 | 8.71E+01 | 8.76E+01 | 2.10E+00 | 4.50E+00 | 2E-01 | 1E-01 | **4E+01** | **2E+01** | **4E+01** | **2E+01** |
| **Osprey - mid** | **tPCB-med** | **2.27E+00** | **2.54E-01** | 1.00E+01 | NA | 6.43E-01 | 6.43E-01 | -- | 2.57E+01 | 2.57E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 9E-01 | 4E-01 | 9E-01 | 4E-01 |
| | **Mercury** | **1.72E+00** | **8.22E-01** | 8.00E-01 | NA | 5.15E-02 | 5.15E-02 | -- | 1.65E-01 | 1.65E-01 | 4.40E-01 | 8.00E-01 | -- | -- | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Osprey - high** | **tPCB-high** | **2.27E+00** | **2.54E-01** | 1.00E+01 | NA | 6.43E-01 | 6.43E-01 | -- | 2.57E+01 | 2.57E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **1E+01** | **6E+00** | **1E+01** | **6E+00** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-172**

**Lower Trophic Level Terrestrial Risk Calculations For Reach C10**

**Anniston PCB Site, Anniston, Alabama**

| Media | Receptor Community | COPC | Soil EPC[b] (mg/kg) | Toxicity Benchmarks[a] (mg/kg) | | Hazard Quotients | |
|---|---|---|---|---|---|---|---|
| | | | | NOAEL | LOAEL | NOAEL | LOAEL |
| Soil - Riparian | **Terrestrial Plants** | **PCB** | 1.83E+00 | 4.00E+01 | NA | 5E-02 | -- |
| | | **Chromium** | 1.96E+01 | 1.00E+00 | NA | **2E+01** | -- |
| | | **Lead** | 2.54E+01 | 1.20E+02 | NA | 2E-01 | -- |
| | | **Mercury** | 3.87E+00 | 3.00E-01 | NA | **1E+01** | -- |
| | | **Vanadium** | 2.07E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 1.83E+00 | 3.60E+00 | 3.60E+01 | 5E-01 | 5E-02 |
| | | **Chromium** | 1.96E+01 | 4.00E-01 | NA | **5E+01** | -- |
| | | **Lead** | 2.54E+01 | 1.70E+03 | NA | 1E-02 | -- |
| | | **Mercury** | 3.87E+00 | 1.00E-01 | 0.23 | **4E+01** | **2E+01** |
| | | **Vanadium** | 2.07E+01 | NA | NA | -- | -- |

**Notes:**

a = NOAELs represent chronic values and LOAELs represent acute values

b = Riparian soil for C1 is based on the upper assessment area.

COPC = constituent of potential concern

EPC = exposure point concentration

LOAEL = lowest observed adverse effect level

mg/kg = milligram per kilogram

NA = not applicable

NOAEL = no observed adverse effect level

OU = Operable Unit

PCB = total polychlorinated biphenyl

**Bold indicates hazard quotients greater than 1**

**Table E3-173**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C10**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| Tree Swallow - mid | tPCB-med | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 1.10E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 2.80E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 9.73E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 2.65E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 8.22E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 2.21E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Tree Swallow - high | tPCB-high | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Spotted Sandpiper - 2 - mid | tPCB-med | 7.35E-01 | 1.57E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Barium | 1.10E+02 | 1.21E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Chromium | 2.80E+01 | 1.80E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Cobalt | 9.73E+00 | 1.22E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Lead | 2.65E+01 | 6.73E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Mercury | 8.22E-01 | 4.30E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Vanadium | 2.21E+01 | 1.71E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| Spotted Sandpiper - 2 - high | tPCB-high | 7.35E-01 | 1.57E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| Kingfisher - 1 - mid | tPCB-med | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Barium | 1.10E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Chromium | 2.80E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Cobalt | 9.73E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Lead | 2.65E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Mercury | 8.22E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Vanadium | 2.21E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| Kingfisher - 1 - high | tPCB-high | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| Kingfisher - 2 - mid | tPCB-med | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Barium | 1.10E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Chromium | 2.80E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Cobalt | 9.73E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Lead | 2.65E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Mercury | 8.22E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Vanadium | 2.21E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| Kingfisher - 2 - high | tPCB-high | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| Osprey - mid | tPCB-med | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 1.10E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 2.80E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 9.73E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 2.65E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 8.22E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 2.21E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Osprey - high | tPCB-high | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Bat | tPCB | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 1.10E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 2.80E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 9.73E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 2.65E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 8.22E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 2.21E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Otter | tPCB-mink | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Otter (Alternative TRV) | tPCB-mink | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 1.10E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 2.80E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 9.73E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 2.65E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 8.22E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 2.21E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-173**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C10**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | |
|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Tree Swallow - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Osprey - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Osprey - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Bat** | **tPCB** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Otter** | **tPCB-mink** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |

**Table E3-173**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C10**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-173**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C10**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 9.94E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.41E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 7.38E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.73E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.31E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.62E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 4.25E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 9.94E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 3.77E-02 | 0.00E+00 | 4.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.36E-02 | 2.66E-05 |
| | **Barium** | 0.00E+00 | 8.92E+00 | 0.00E+00 | 8.92E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.52E+00 | 2.06E-02 |
| | **Chromium** | 0.00E+00 | 8.81E-01 | 0.00E+00 | 8.81E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.99E-01 | 3.06E-03 |
| | **Cobalt** | 0.00E+00 | 1.08E+00 | 0.00E+00 | 1.08E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.12E-01 | 2.07E-03 |
| | **Lead** | 0.00E+00 | 1.88E+00 | 0.00E+00 | 1.88E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.51E-01 | 1.14E-02 |
| | **Mercury** | 0.00E+00 | 2.65E-02 | 0.00E+00 | 7.32E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E-02 | 7.31E-05 |
| | **Vanadium** | 0.00E+00 | 8.61E-01 | 0.00E+00 | 8.61E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 2.91E-03 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 3.77E-02 | 0.00E+00 | 4.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.36E-02 | 2.66E-05 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.24E+00 | 0.00E+00 | 0.00E+00 | 2.32E-03 | 1.72E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E+01 | 0.00E+00 | 0.00E+00 | 3.46E-01 | 1.33E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.62E+00 | 0.00E+00 | 0.00E+00 | 8.84E-02 | 1.98E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 3.07E-02 | 1.34E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.11E-02 | 0.00E+00 | 0.00E+00 | 8.36E-02 | 7.40E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.94E-02 | 0.00E+00 | 0.00E+00 | 2.59E-03 | 4.73E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.60E-01 | 0.00E+00 | 0.00E+00 | 6.98E-02 | 1.88E-03 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.24E+00 | 0.00E+00 | 0.00E+00 | 2.32E-03 | 1.72E-05 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-02 | 0.00E+00 | 0.00E+00 | 1.70E+00 | 0.00E+00 | 1.27E-02 | 2.32E-03 | 1.72E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E+01 | 0.00E+00 | 0.00E+00 | 1.23E+01 | 0.00E+00 | 1.02E+00 | 3.46E-01 | 1.33E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.43E-02 | 0.00E+00 | 0.00E+00 | 1.99E+00 | 0.00E+00 | 2.44E-01 | 8.84E-02 | 1.98E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 2.99E-02 | 3.07E-02 | 1.34E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 6.92E-02 | 0.00E+00 | 8.22E-02 | 8.36E-02 | 7.40E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.38E-03 | 0.00E+00 | 0.00E+00 | 4.51E-02 | 0.00E+00 | 4.13E-03 | 2.59E-03 | 4.73E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-01 | 0.00E+00 | 0.00E+00 | 4.26E-01 | 0.00E+00 | 3.15E-02 | 6.98E-02 | 1.88E-03 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-02 | 0.00E+00 | 0.00E+00 | 1.70E+00 | 0.00E+00 | 1.27E-02 | 2.32E-03 | 1.72E-05 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.46E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 7.34E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 5.45E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 9.66E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.94E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 3.14E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.76E-01 | 3.51E-01 | 1.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.76E-01 | 3.51E-01 | 1.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.43E-01 | 1.97E-01 | 1.08E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.20E-02 | 3.43E-02 | 1.74E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 4.48E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 5.18E-03 | 6.04E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-03 | 9.98E-03 | 3.94E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-02 | 4.74E-03 | 3.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 |

**Table E3-173**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C10**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 9.94E-02 | 9.94E-02 | 4.67E-01 | 1.40E+00 | 2E-01 | 7E-02 | 2E-01 | 7E-02 |
| | **Barium** | 1.41E+00 | 1.43E+00 | 2.08E+01 | 4.17E+01 | 7E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 7.38E+00 | 7.39E+00 | 2.66E+00 | 2.80E+00 | **3E+00** | **3E+00** | **3E+00** | **3E+00** |
| | **Cobalt** | 1.73E-01 | 1.76E-01 | 7.61E+00 | 7.80E+00 | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 1.31E-01 | 1.45E-01 | 1.63E+00 | 3.26E+00 | 8E-02 | 4E-02 | 9E-02 | 4E-02 |
| | **Mercury** | 2.62E-02 | 2.63E-02 | 2.27E-02 | 6.80E-02 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | 4.25E-01 | 4.29E-01 | 3.44E-01 | 7.00E-01 | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| **Tree Swallow - high** | **tPCB-high** | 9.94E-02 | 9.94E-02 | 4.33E-02 | 1.30E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.13E+00 | 4.13E+00 | 4.67E-01 | 1.40E+00 | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Barium** | 2.14E+01 | 2.14E+01 | 2.08E+01 | 4.17E+01 | 1E+00 | 5E-01 | 1E+00 | 5E-01 |
| | **Chromium** | 2.66E+00 | 2.66E+00 | 2.66E+00 | 2.80E+00 | 1E+00 | 1E+00 | 1E+00 | 1E+00 |
| | **Cobalt** | 2.47E+00 | 2.47E+00 | 7.61E+00 | 7.80E+00 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 4.62E+00 | 4.63E+00 | 1.63E+00 | 3.26E+00 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | 1.26E-01 | 1.26E-01 | 2.27E-02 | 6.80E-02 | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Vanadium** | 2.43E+00 | 2.44E+00 | 3.44E-01 | 7.00E-01 | **7E+00** | **3E+00** | **7E+00** | **3E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.13E+00 | 4.13E+00 | 4.33E-02 | 1.30E-01 | **1E+02** | **3E+01** | **1E+02** | **3E+01** |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.24E+00 | 2.24E+00 | 4.67E-01 | 1.40E+00 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Barium** | 1.66E+01 | 1.66E+01 | 2.08E+01 | 4.17E+01 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Chromium** | 2.70E+00 | 2.71E+00 | 2.66E+00 | 2.80E+00 | 1E+00 | 1E+00 | 1E+00 | 1E+00 |
| | **Cobalt** | 3.07E+00 | 3.08E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 1.75E-01 | 1.82E-01 | 1.63E+00 | 3.26E+00 | 1E-01 | 5E-02 | 1E-01 | 6E-02 |
| | **Mercury** | 6.20E-02 | 6.20E-02 | 2.27E-02 | 6.80E-02 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Vanadium** | 6.30E-01 | 6.32E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.24E+00 | 2.24E+00 | 4.33E-02 | 1.30E-01 | **5E+01** | **2E+01** | **5E+01** | **2E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | 1.73E+00 | 1.73E+00 | 4.67E-01 | 1.40E+00 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | 3.24E+01 | 3.24E+01 | 2.08E+01 | 4.17E+01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 2.39E+00 | 2.39E+00 | 2.66E+00 | 2.80E+00 | 9E-01 | 9E-01 | 9E-01 | 9E-01 |
| | **Cobalt** | 2.97E+00 | 2.97E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 3.38E-01 | 3.45E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | 5.72E-02 | 5.73E-02 | 2.27E-02 | 6.80E-02 | **3E+00** | 8E-01 | **3E+00** | 8E-01 |
| | **Vanadium** | 6.51E-01 | 6.53E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 1.73E+00 | 1.73E+00 | 4.33E-02 | 1.30E-01 | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Osprey - mid** | **tPCB-med** | 1.16E+00 | 1.16E+00 | 4.67E-01 | 1.40E+00 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Barium** | 2.29E+00 | 2.30E+00 | 2.08E+01 | 4.17E+01 | 1E-01 | 5E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 3.46E-01 | 3.47E-01 | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 5.10E-02 | 5.16E-02 | 7.61E+00 | 7.80E+00 | 7E-03 | 7E-03 | 7E-03 | 7E-03 |
| | **Lead** | 4.80E-02 | 5.14E-02 | 1.63E+00 | 3.26E+00 | 3E-02 | 1E-02 | 3E-02 | 2E-02 |
| | **Mercury** | 3.22E-02 | 3.22E-02 | 2.27E-02 | 6.80E-02 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Vanadium** | 7.62E-02 | 7.71E-02 | 3.44E-01 | 7.00E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | 1.16E+00 | 1.16E+00 | 4.33E-02 | 1.30E-01 | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| **Bat** | **tPCB** | 7.34E-02 | 7.34E-02 | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Barium** | 1.04E+00 | 1.06E+00 | 5.18E+01 | 1.21E+02 | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| | **Chromium** | 5.45E+00 | 5.45E+00 | 2.40E+00 | 2.82E+00 | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 1.28E-01 | 1.30E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 9.66E-02 | 1.07E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Mercury** | 1.94E-02 | 1.94E-02 | 7.50E-02 | 1.50E-01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 3.14E-01 | 3.17E-01 | 4.16E+00 | 8.31E+00 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| **Otter** | **tPCB-mink** | 7.75E-01 | 7.75E-01 | 5.00E-02 | 1.00E-01 | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Otter (Alternative TRV)** | **tPCB-mink** | 7.75E-01 | 7.75E-01 | na | 5.00E-02 | -- | **2E+01** | -- | **2E+01** |
| | **Barium** | 1.82E+00 | 1.83E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.90E-01 | 2.91E-01 | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 2.19E-01 | 2.20E-01 | 7.33E+00 | 1.00E+01 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 2.26E-02 | 2.80E-02 | 4.70E+00 | 8.90E+00 | 5E-03 | 3E-03 | 6E-03 | 3E-03 |
| | **Mercury** | 2.15E-02 | 2.16E-02 | 7.50E-02 | 1.50E-01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 6.00E-02 | 6.13E-02 | 4.16E+00 | 8.31E+00 | 1E-02 | 7E-03 | 1E-02 | 7E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-174**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C10, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.04E+02** | **1.10E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.96E+01** | **2.80E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.81E+00** | **9.73E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.54E+01** | **2.65E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.07E+01** | **2.21E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.04E+02** | **1.10E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **1.96E+01** | **2.80E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **9.81E+00** | **9.73E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **2.54E+01** | **2.65E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **2.07E+01** | **2.21E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Barium** | **1.04E+02** | **1.10E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Chromium** | **1.96E+01** | **2.80E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Cobalt** | **9.81E+00** | **9.73E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Lead** | **2.54E+01** | **2.65E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| | **Vanadium** | **2.07E+01** | **2.21E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **Mink - 2** | **tPCB-mink** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Barium** | **1.04E+02** | **1.10E+02** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Chromium** | **1.96E+01** | **2.80E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Cobalt** | **9.81E+00** | **9.73E+00** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Lead** | **2.54E+01** | **2.65E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| | **Vanadium** | **2.07E+01** | **2.21E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Raccoon - 1** | **tPCB** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Barium** | **1.04E+02** | **1.10E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Chromium** | **1.96E+01** | **2.80E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Cobalt** | **9.81E+00** | **9.73E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Lead** | **2.54E+01** | **2.65E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| | **Vanadium** | **2.07E+01** | **2.21E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 |
| **Raccoon - 2** | **tPCB** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Barium** | **1.04E+02** | **1.10E+02** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Chromium** | **1.96E+01** | **2.80E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Cobalt** | **9.81E+00** | **9.73E+00** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Lead** | **2.54E+01** | **2.65E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |
| | **Vanadium** | **2.07E+01** | **2.21E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 |

**Table E3-174**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C10, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Percent Diet (%) | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| Spotted Sandpiper - 1 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 1.47E+00 | 8.70E-01 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 2.82E-01 | 8.99E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 5.07E-01 | 3.14E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 8.01E-02 | 5.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.29E-01 | 7.10E-03 |
| Spotted Sandpiper - 1 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| GBH - mid | tPCB-med | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | Barium | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 1.47E+00 | 8.70E-01 |
| | Chromium | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 2.82E-01 | 8.99E-02 |
| | Cobalt | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | Lead | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 5.07E-01 | 3.14E-03 |
| | Mercury | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 8.01E-02 | 5.00E-02 |
| | Vanadium | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.29E-01 | 7.10E-03 |
| GBH - high | tPCB-high | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| Mink - 1 | tPCB-mink | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | Barium | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | Chromium | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| Mink - 2 | tPCB-mink | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | Barium | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | Chromium | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | Lead | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | Mercury | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| Raccoon - 1 | tPCB | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | Barium | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | Chromium | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | Cobalt | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | Lead | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | Mercury | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | Vanadium | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| Raccoon - 2 | tPCB | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | Barium | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 1.47E+00 | 8.70E-01 |
| | Chromium | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 2.82E-01 | 8.99E-02 |
| | Cobalt | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | Lead | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 5.07E-01 | 3.14E-03 |
| | Mercury | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 8.01E-02 | 5.00E-02 |
| | Vanadium | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-174**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C10, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Benthic Invertebrates (odonata larvae)** | **Soil Invertebrates (Worms / Spiders / Detritivores)** | **Aquatic Emergent Insects** | **Terrestrial Insects** | **Small mammals/birds** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **GBH - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **GBH - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Mink - 1** | **tPCB-mink** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Mink - 2** | **tPCB-mink** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Raccoon - 1** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Raccoon - 2** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-174**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C10, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** | **Fish (all sizes)** | **Forage Fish** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **GBH - mid** | **tPCB-med** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **GBH - high** | **tPCB-high** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **Mink - 1** | **tPCB-mink** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Mink - 2** | **tPCB-mink** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Raccoon - 1** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| **Raccoon - 2** | **tPCB** | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | **Barium** | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | **Chromium** | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | **Cobalt** | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | **Lead** | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | **Mercury** | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | **Vanadium** | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-174**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C10, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| Spotted Sandpiper - 1 - mid | tPCB-med | 2.45E+01 | 2.18E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| | Barium | 2.65E-01 | 1.17E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| | Chromium | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| | Cobalt | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| | Lead | 8.90E-02 | 3.93E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| | Mercury | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| | Vanadium | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| Spotted Sandpiper - 1 - high | tPCB-high | 2.45E+01 | 2.18E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 |
| GBH - mid | tPCB-med | 2.45E+01 | 2.18E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| | Barium | 2.65E-01 | 1.17E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| | Chromium | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| | Cobalt | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| | Lead | 8.90E-02 | 3.93E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| | Mercury | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| | Vanadium | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| GBH - high | tPCB-high | 2.45E+01 | 2.18E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 |
| Mink - 1 | tPCB-mink | 2.45E+01 | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 2.45E+01 | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | Barium | 2.65E-01 | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | Chromium | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | Cobalt | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | Lead | 8.90E-02 | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | Mercury | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | Vanadium | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| Mink - 2 | tPCB-mink | 2.45E+01 | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 2.45E+01 | 2.18E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | Barium | 2.65E-01 | 1.17E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | Chromium | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | Cobalt | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | Lead | 8.90E-02 | 3.93E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | Mercury | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| | Vanadium | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 |
| Raccoon - 1 | tPCB | 2.45E+01 | 2.18E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Barium | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Chromium | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Cobalt | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Lead | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Mercury | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Vanadium | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| Raccoon - 2 | tPCB | 2.45E+01 | 2.18E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 |
| | Barium | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 |
| | Chromium | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 |
| | Cobalt | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 |
| | Lead | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 |
| | Mercury | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 |
| | Vanadium | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 |

**Table E3-174**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C10, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Aquatic Plants** | **Terrestrial Plants** | **Benthic Invertebrates (odonata larvae)** | **Soil Invertebrates (worms)** | **Aquatic Emergent Insects** | **Terrestrial Insects** | **Terrestrial Spiders / Detritivores** | **Small mammals** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** | **Fish (all sizes)** | **Forage Fish** | **Reptiles** | **Amphibians** | **Soil** | **Sediment** | **Water** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 3.77E-02 | 7.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-02 | 1.18E-02 | 2.66E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 8.92E+00 | 7.60E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E+00 | 1.76E+00 | 2.06E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 8.81E-01 | 1.60E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 4.49E-01 | 3.06E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.08E+00 | 7.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-01 | 1.56E-01 | 2.07E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.88E+00 | 1.50E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.08E-01 | 4.25E-01 | 1.14E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.65E-02 | 5.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.20E-02 | 1.32E-02 | 7.31E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 8.61E-01 | 1.15E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.31E-01 | 3.55E-01 | 2.91E-03 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 3.77E-02 | 7.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-02 | 1.18E-02 | 2.66E-05 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.07E-03 | 0.00E+00 | 0.00E+00 | 7.56E-04 | 2.73E+00 | 0.00E+00 | 0.00E+00 | 1.13E-02 | 0.00E+00 | 2.59E-03 | 7.05E-06 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.87E-02 | 0.00E+00 | 0.00E+00 | 1.10E+00 | 5.37E+00 | 0.00E+00 | 0.00E+00 | 9.08E-01 | 0.00E+00 | 3.87E-01 | 5.45E-03 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-02 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 8.11E-01 | 0.00E+00 | 0.00E+00 | 2.18E-01 | 0.00E+00 | 9.87E-02 | 8.10E-04 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 1.19E-01 | 0.00E+00 | 0.00E+00 | 2.67E-02 | 0.00E+00 | 3.42E-02 | 5.49E-04 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.38E-03 | 0.00E+00 | 0.00E+00 | 6.05E-03 | 1.12E-01 | 0.00E+00 | 0.00E+00 | 7.35E-02 | 0.00E+00 | 9.35E-02 | 3.03E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.44E-04 | 0.00E+00 | 0.00E+00 | 3.16E-04 | 7.54E-02 | 0.00E+00 | 0.00E+00 | 3.69E-03 | 0.00E+00 | 2.89E-03 | 1.94E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 7.31E-03 | 1.79E-01 | 0.00E+00 | 0.00E+00 | 2.81E-02 | 0.00E+00 | 7.80E-02 | 7.70E-04 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.07E-03 | 0.00E+00 | 0.00E+00 | 7.56E-04 | 2.73E+00 | 0.00E+00 | 0.00E+00 | 1.13E-02 | 0.00E+00 | 2.59E-03 | 7.05E-06 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.27E-02 | 0.00E+00 | 0.00E+00 | 1.91E-03 | 0.00E+00 | 1.48E-01 | 0.00E+00 | 2.07E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.27E-02 | 0.00E+00 | 0.00E+00 | 1.91E-03 | 0.00E+00 | 1.48E-01 | 0.00E+00 | 2.07E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.78E-01 | 0.00E+00 | 0.00E+00 | 2.78E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 1.66E+00 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-01 | 0.00E+00 | 0.00E+00 | 9.56E-03 | 0.00E+00 | 1.72E-01 | 0.00E+00 | 3.99E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 4.88E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.41E-02 | 0.00E+00 | 0.00E+00 | 1.53E-02 | 0.00E+00 | 6.00E-03 | 0.00E+00 | 1.34E-01 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.17E-02 | 0.00E+00 | 0.00E+00 | 7.99E-04 | 0.00E+00 | 3.91E-03 | 0.00E+00 | 6.74E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 3.69E-02 | 0.00E+00 | 5.14E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| **Mink - 2** | **tPCB-mink** | 9.37E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.54E-03 | 0.00E+00 | 0.00E+00 | 8.49E-04 | 0.00E+00 | 6.04E-01 | 0.00E+00 | 2.38E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 9.37E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.54E-03 | 0.00E+00 | 0.00E+00 | 8.49E-04 | 0.00E+00 | 6.04E-01 | 0.00E+00 | 2.38E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 |
| | **Barium** | 8.01E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.52E-02 | 0.00E+00 | 0.00E+00 | 1.23E+00 | 0.00E+00 | 4.38E+00 | 0.00E+00 | 1.91E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 |
| | **Chromium** | 3.91E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-02 | 0.00E+00 | 0.00E+00 | 4.25E-03 | 0.00E+00 | 7.06E-01 | 0.00E+00 | 4.60E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 |
| | **Cobalt** | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 5.63E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 |
| | **Lead** | 6.66E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.38E-03 | 0.00E+00 | 0.00E+00 | 6.80E-03 | 0.00E+00 | 2.46E-02 | 0.00E+00 | 1.55E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 |
| | **Mercury** | 3.26E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.59E-03 | 0.00E+00 | 0.00E+00 | 3.55E-04 | 0.00E+00 | 1.60E-02 | 0.00E+00 | 7.77E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 |
| | **Vanadium** | 3.61E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 8.21E-03 | 0.00E+00 | 1.51E-01 | 0.00E+00 | 5.93E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.95E-02 | 0.00E+00 | 2.16E-02 | 0.00E+00 | 8.34E-04 | 2.16E-02 | 4.09E-03 | 0.00E+00 | 0.00E+00 | 1.50E-03 | 9.73E-03 | 0.00E+00 | 9.68E-03 | 1.29E-03 | 4.61E-03 | 0.00E+00 | 1.30E-05 |
| | **Barium** | 0.00E+00 | 1.07E+00 | 0.00E+00 | 2.29E-01 | 0.00E+00 | 1.10E-02 | 2.29E-01 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 2.17E+00 | 1.92E-02 | 0.00E+00 | 1.56E-02 | 1.04E-01 | 2.63E-01 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | 0.00E+00 | 2.08E-02 | 0.00E+00 | 4.83E-02 | 0.00E+00 | 1.98E-02 | 4.83E-02 | 8.35E-03 | 0.00E+00 | 0.00E+00 | 7.49E-03 | 2.89E-03 | 0.00E+00 | 4.83E-03 | 2.49E-02 | 4.95E-02 | 0.00E+00 | 1.49E-03 |
| | **Cobalt** | 0.00E+00 | 6.59E-03 | 0.00E+00 | 2.26E-02 | 0.00E+00 | 4.95E-02 | 2.26E-02 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 4.26E-04 | 0.00E+00 | 1.21E-02 | 3.05E-03 | 2.47E-02 | 0.00E+00 | 1.01E-03 |
| | **Lead** | 0.00E+00 | 9.43E-04 | 0.00E+00 | 4.52E-02 | 0.00E+00 | 5.62E-04 | 4.52E-02 | 3.53E-03 | 0.00E+00 | 0.00E+00 | 1.20E-02 | 4.01E-04 | 0.00E+00 | 1.27E-03 | 8.40E-03 | 6.42E-02 | 0.00E+00 | 5.59E-03 |
| | **Mercury** | 0.00E+00 | 2.28E-03 | 0.00E+00 | 1.54E-02 | 0.00E+00 | 6.76E-04 | 1.54E-02 | 7.62E-04 | 0.00E+00 | 0.00E+00 | 6.26E-04 | 2.69E-04 | 0.00E+00 | 5.77E-04 | 4.22E-04 | 9.76E-03 | 0.00E+00 | 3.57E-05 |
| | **Vanadium** | 0.00E+00 | 1.73E-03 | 0.00E+00 | 3.47E-02 | 0.00E+00 | 4.55E-04 | 3.47E-02 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 1.45E-02 | 6.37E-04 | 0.00E+00 | 4.83E-03 | 3.22E-03 | 5.21E-02 | 0.00E+00 | 1.42E-03 |
| **Raccoon - 2** | **tPCB** | 8.64E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E-02 | 3.68E-02 | 1.86E-02 | 1.50E-03 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 5.17E-03 | 0.00E+00 | 1.85E-03 | 1.30E-05 |
| | **Barium** | 7.39E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-01 | 8.06E-02 | 3.06E-01 | 2.17E+00 | 2.00E-01 | 0.00E+00 | 0.00E+00 | 4.15E-01 | 0.00E+00 | 2.77E-01 | 1.00E-02 |
| | **Chromium** | 3.60E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E-02 | 7.97E-03 | 1.24E-01 | 7.49E-03 | 3.02E-02 | 0.00E+00 | 0.00E+00 | 9.98E-02 | 0.00E+00 | 7.07E-02 | 1.49E-03 |
| | **Cobalt** | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-02 | 9.74E-03 | 5.72E-02 | 6.97E-02 | 4.45E-03 | 0.00E+00 | 0.00E+00 | 1.22E-02 | 0.00E+00 | 2.45E-02 | 1.01E-03 |
| | **Lead** | 6.14E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-02 | 1.70E-02 | 9.62E-02 | 1.20E-02 | 4.19E-03 | 0.00E+00 | 0.00E+00 | 3.36E-02 | 0.00E+00 | 6.69E-02 | 5.59E-03 |
| | **Mercury** | 3.00E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.73E-03 | 6.62E-04 | 2.37E-03 | 6.26E-04 | 2.81E-03 | 0.00E+00 | 0.00E+00 | 1.69E-03 | 0.00E+00 | 2.07E-03 | 3.57E-05 |
| | **Vanadium** | 3.33E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 | 7.79E-03 | 4.27E-02 | 1.45E-02 | 6.66E-03 | 0.00E+00 | 0.00E+00 | 1.29E-02 | 0.00E+00 | 5.58E-02 | 1.42E-03 |

**Table E3-174**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C10, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 7.46E-01 | 4.95E-02 | 7.95E-01 | 7.95E-01 | 4.67E-01 | 1.40E+00 | **2E+00** | 5E-01 | 1E-01 | 4E-02 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Barium** | 9.27E+00 | 1.07E+01 | 1.99E+01 | 2.00E+01 | 2.08E+01 | 4.17E+01 | 4E-01 | 2E-01 | 5E-01 | 3E-01 | 1E+00 | 5E-01 | 1E+00 | 5E-01 |
| | **Chromium** | 1.92E+00 | 1.33E+00 | 3.25E+00 | 3.25E+00 | 2.66E+00 | 2.80E+00 | 7E-01 | 7E-01 | 5E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 9.07E-01 | 1.23E+00 | 2.14E+00 | 2.14E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 1.91E+00 | 2.31E+00 | 4.21E+00 | 4.23E+00 | 1.63E+00 | 3.26E+00 | **1E+00** | 6E-01 | **1E+00** | 7E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | 5.72E-01 | 3.97E-02 | 6.12E-01 | 6.12E-01 | 2.27E-02 | 6.80E-02 | **3E+01** | **8E+00** | **2E+00** | 6E-01 | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| | **Vanadium** | 1.48E+00 | 1.22E+00 | 2.70E+00 | 2.70E+00 | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **4E+00** | **2E+00** | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 7.46E-01 | 4.95E-02 | 7.95E-01 | 7.95E-01 | 4.33E-02 | 1.30E-01 | **2E+01** | **6E+00** | **1E+00** | 4E-01 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| **GBH - mid** | **tPCB-med** | 5.07E-03 | 2.74E+00 | 2.75E+00 | 2.75E+00 | 4.67E-01 | 1.40E+00 | 1E-02 | 4E-03 | **6E+00** | **2E+00** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Barium** | 3.87E-02 | 7.76E+00 | 7.80E+00 | 7.81E+00 | 2.08E+01 | 4.17E+01 | 2E-03 | 9E-04 | 4E-01 | 2E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Chromium** | 1.03E-02 | 1.13E+00 | 1.14E+00 | 1.14E+00 | 2.66E+00 | 2.80E+00 | 4E-03 | 4E-03 | 4E-01 | 4E-01 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 2.75E-02 | 2.16E-01 | 2.43E-01 | 2.44E-01 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 3E-02 | 3E-02 | 3E-02 | 3E-02 | 3E-02 | 3E-02 |
| | **Lead** | 4.38E-03 | 2.85E-01 | 2.90E-01 | 2.93E-01 | 1.63E+00 | 3.26E+00 | 3E-03 | 1E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Mercury** | 9.44E-04 | 8.23E-02 | 8.32E-02 | 8.33E-02 | 2.27E-02 | 6.80E-02 | 4E-02 | 1E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 1.10E-02 | 2.92E-01 | 3.03E-01 | 3.04E-01 | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 8E-01 | 4E-01 | 9E-01 | 4E-01 | 9E-01 | 4E-01 |
| **GBH - high** | **tPCB-high** | 5.07E-03 | 2.74E+00 | 2.75E+00 | 2.75E+00 | 4.33E-02 | 1.30E-01 | 1E-01 | 4E-02 | **6E+01** | **2E+01** | **6E+01** | **2E+01** | **6E+01** | **2E+01** |
| **Mink - 1** | **tPCB-mink** | 6.27E-02 | 1.70E-01 | 2.33E-01 | 2.33E-01 | 5.00E-02 | 1.00E-01 | **1E+00** | 6E-01 | **3E+00** | **2E+00** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 6.27E-02 | 1.70E-01 | 2.33E-01 | 2.33E-01 | na | 5.00E-02 | **--** | **1E+00** | **--** | **3E+00** | **--** | **5E+00** | **--** | **5E+00** |
| | **Barium** | 4.78E-01 | 5.50E+00 | 5.98E+00 | 5.99E+00 | 5.18E+01 | 1.21E+02 | 9E-03 | 4E-03 | 1E-01 | 5E-02 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 1.28E-01 | 5.81E-01 | 7.08E-01 | 7.10E-01 | 2.40E+00 | 2.82E+00 | 5E-02 | 5E-02 | 2E-01 | 2E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 3.40E-01 | 3.38E-01 | 6.78E-01 | 6.80E-01 | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 5E-02 | 3E-02 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Lead** | 5.41E-02 | 1.56E-01 | 2.10E-01 | 2.16E-01 | 4.70E+00 | 8.90E+00 | 1E-02 | 6E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Mercury** | 1.17E-02 | 1.14E-02 | 2.31E-02 | 2.32E-02 | 7.50E-02 | 1.50E-01 | 2E-01 | 8E-02 | 2E-01 | 8E-02 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 1.36E-01 | 1.07E-01 | 2.43E-01 | 2.45E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 3E-02 | 1E-02 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Mink - 2** | **tPCB-mink** | 8.54E-03 | 6.07E-01 | 6.16E-01 | 6.16E-01 | 5.00E-02 | 1.00E-01 | 2E-01 | 9E-02 | **1E+01** | **6E+00** | **1E+01** | **6E+00** | **1E+01** | **6E+00** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 8.54E-03 | 6.07E-01 | 6.16E-01 | 6.16E-01 | na | 5.00E-02 | **--** | 2E-01 | **--** | **1E+01** | **--** | **1E+01** | **--** | **1E+01** |
| | **Barium** | 6.52E-02 | 5.89E+00 | 5.95E+00 | 5.97E+00 | 5.18E+01 | 1.21E+02 | 1E-03 | 5E-04 | 1E-01 | 5E-02 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 1.74E-02 | 7.60E-01 | 7.78E-01 | 7.80E-01 | 2.40E+00 | 2.82E+00 | 7E-03 | 6E-03 | 3E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 4.64E-02 | 8.84E-01 | 9.30E-01 | 9.31E-01 | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 7.38E-03 | 5.35E-02 | 6.09E-02 | 6.76E-02 | 4.70E+00 | 8.90E+00 | 2E-03 | 8E-04 | 1E-02 | 6E-03 | 1E-02 | 7E-03 | 1E-02 | 8E-03 |
| | **Mercury** | 1.59E-03 | 1.72E-02 | 1.88E-02 | 1.88E-02 | 7.50E-02 | 1.50E-01 | 2E-02 | 1E-02 | 2E-01 | 1E-01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 1.85E-02 | 1.69E-01 | 1.87E-01 | 1.89E-01 | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 4E-02 | 2E-02 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| **Raccoon - 1** | **tPCB** | 7.22E-02 | 2.22E-02 | 9.44E-02 | 9.44E-02 | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | 1E-01 | 3E-02 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Barium** | 1.83E+00 | 2.31E+00 | 4.15E+00 | 4.16E+00 | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 8E-02 | 3E-02 | 8E-02 | 3E-02 |
| | **Chromium** | 1.95E-01 | 4.02E-02 | 2.35E-01 | 2.37E-01 | 2.40E+00 | 2.82E+00 | 8E-02 | 7E-02 | 2E-02 | 1E-02 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Cobalt** | 1.48E-01 | 8.53E-02 | 2.34E-01 | 2.35E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 9E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 1.59E-01 | 2.21E-02 | 1.82E-01 | 1.87E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 2E-02 | 5E-03 | 2E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 4.42E-02 | 1.89E-03 | 4.61E-02 | 4.62E-02 | 7.50E-02 | 1.50E-01 | 6E-01 | 3E-01 | 3E-02 | 1E-02 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 1.33E-01 | 2.32E-02 | 1.56E-01 | 1.57E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 6E-03 | 3E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Raccoon - 2** | **tPCB** | 1.47E-02 | 1.66E-01 | 1.81E-01 | 1.81E-01 | 2.30E-01 | 6.80E-01 | 6E-02 | 2E-02 | 7E-01 | 2E-01 | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| | **Barium** | 1.12E-01 | 4.19E+00 | 4.30E+00 | 4.31E+00 | 5.18E+01 | 1.21E+02 | 2E-03 | 9E-04 | 8E-02 | 3E-02 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Chromium** | 2.99E-02 | 3.76E-01 | 4.06E-01 | 4.08E-01 | 2.40E+00 | 2.82E+00 | 1E-02 | 1E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Cobalt** | 7.96E-02 | 3.36E-01 | 4.16E-01 | 4.17E-01 | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 5E-02 | 3E-02 | 6E-02 | 4E-02 | 6E-02 | 4E-02 |
| | **Lead** | 1.27E-02 | 2.91E-01 | 3.04E-01 | 3.10E-01 | 4.70E+00 | 8.90E+00 | 3E-03 | 1E-03 | 6E-02 | 3E-02 | 6E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Mercury** | 2.73E-03 | 1.05E-02 | 1.33E-02 | 1.33E-02 | 7.50E-02 | 1.50E-01 | 4E-02 | 2E-02 | 1E-01 | 7E-02 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Vanadium** | 3.19E-02 | 1.74E-01 | 2.05E-01 | 2.07E-01 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 4E-02 | 2E-02 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilogram dry weight per kilogram per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-175**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C10**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| Tree Swallow - mid | tPCB-med | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 1.10E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 2.80E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 9.73E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 2.65E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 8.22E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 2.21E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Tree Swallow - high | tPCB-high | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Spotted Sandpiper - 2 - mid | tPCB-med | 7.35E-01 | 1.57E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Barium | 1.10E+02 | 1.21E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Chromium | 2.80E+01 | 1.80E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Cobalt | 9.73E+00 | 1.22E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Lead | 2.65E+01 | 6.73E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Mercury | 8.22E-01 | 4.30E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Vanadium | 2.21E+01 | 1.71E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| Spotted Sandpiper - 2 - high | tPCB-high | 7.35E-01 | 1.57E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| Kingfisher - 1 - mid | tPCB-med | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Barium | 1.10E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Chromium | 2.80E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Cobalt | 9.73E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Lead | 2.65E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Mercury | 8.22E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Vanadium | 2.21E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| Kingfisher - 1 - high | tPCB-high | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| Kingfisher - 2 - mid | tPCB-med | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Barium | 1.10E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Chromium | 2.80E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Cobalt | 9.73E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Lead | 2.65E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Mercury | 8.22E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Vanadium | 2.21E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| Kingfisher - 2 - high | tPCB-high | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| Osprey - mid | tPCB-med | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 1.10E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 2.80E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 9.73E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 2.65E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 8.22E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 2.21E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Osprey - high | tPCB-high | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Bat | tPCB | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 1.10E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 2.80E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 9.73E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 2.65E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 8.22E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 2.21E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Otter | tPCB-mink | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Otter (Alternative TRV) | tPCB-mink | 7.35E-01 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 1.10E+02 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 2.80E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 9.73E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 2.65E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 8.22E-01 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 2.21E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-175**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C10**

**Anniston PCB Site, Anniston, Alabama**

| | | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-175**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C10**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 2.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 2.66E-01 | 2.66E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 2.72E+00 | 2.75E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 3.21E+00 | 3.21E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 6.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 6.82E-02 | 7.07E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 1.62E-01 | 1.76E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 4.94E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 4.94E-02 | 4.95E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 1.40E-01 | 1.44E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 2.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 2.66E-01 | 2.66E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 9.69E-02 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.36E-02 | 2.66E-05 | 2.17E-01 | 2.17E-01 |
| | **Barium** | 0.00E+00 | 5.34E+00 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.52E+00 | 2.06E-02 | 1.42E+01 | 1.42E+01 |
| | **Chromium** | 0.00E+00 | 3.44E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.99E-01 | 3.06E-03 | 1.59E+00 | 1.59E+00 |
| | **Cobalt** | 0.00E+00 | 3.96E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.12E-01 | 2.07E-03 | 1.10E+00 | 1.10E+00 |
| | **Lead** | 0.00E+00 | 5.34E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.51E-01 | 1.14E-02 | 1.92E+00 | 1.93E+00 |
| | **Mercury** | 0.00E+00 | 4.24E-02 | 0.00E+00 | 4.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E-02 | 7.31E-05 | 1.11E-01 | 1.11E-01 |
| | **Vanadium** | 0.00E+00 | 2.28E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 2.91E-03 | 1.16E+00 | 1.17E+00 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 9.69E-02 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.36E-02 | 2.66E-05 | 2.17E-01 | 2.17E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.28E+00 | 0.00E+00 | 0.00E+00 | 2.32E-03 | 1.72E-05 | 5.28E+00 | 5.28E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E+00 | 0.00E+00 | 0.00E+00 | 3.46E-01 | 1.33E-02 | 5.54E+00 | 5.55E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 0.00E+00 | 0.00E+00 | 8.84E-02 | 1.98E-03 | 1.84E+00 | 1.84E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 3.07E-02 | 1.34E-03 | 3.07E+00 | 3.07E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 8.36E-02 | 7.40E-03 | 4.10E-01 | 4.17E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 2.59E-03 | 4.73E-05 | 1.04E-01 | 1.04E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 6.98E-02 | 1.88E-03 | 2.57E-01 | 2.59E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.28E+00 | 0.00E+00 | 0.00E+00 | 2.32E-03 | 1.72E-05 | 5.28E+00 | 5.28E+00 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.13E-02 | 0.00E+00 | 0.00E+00 | 4.01E+00 | 0.00E+00 | 4.28E-02 | 2.32E-03 | 1.72E-05 | 4.09E+00 | 4.09E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E+00 | 0.00E+00 | 0.00E+00 | 3.95E+00 | 0.00E+00 | 3.47E-01 | 3.46E-01 | 1.33E-02 | 1.06E+01 | 1.06E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.33E+00 | 0.00E+00 | 1.42E-01 | 8.84E-02 | 1.98E-03 | 1.60E+00 | 1.60E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.23E-02 | 3.07E-02 | 1.34E-03 | 2.95E+00 | 2.96E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-02 | 0.00E+00 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 3.25E-02 | 8.36E-02 | 7.40E-03 | 4.62E-01 | 4.70E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.01E-03 | 0.00E+00 | 0.00E+00 | 7.74E-02 | 0.00E+00 | 4.41E-03 | 2.59E-03 | 4.73E-05 | 9.14E-02 | 9.14E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 1.28E-02 | 6.98E-02 | 1.88E-03 | 2.66E-01 | 2.68E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.13E-02 | 0.00E+00 | 0.00E+00 | 4.01E+00 | 0.00E+00 | 4.28E-02 | 2.32E-03 | 1.72E-05 | 4.09E+00 | 4.09E+00 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 3.73E+00 | 3.73E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 1.04E+00 | 1.05E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 3.22E-01 | 3.23E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 3.21E-02 | 3.28E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 3.86E-02 | 4.21E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.56E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 7.56E-02 | 7.56E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 8.39E-02 | 8.48E-02 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 3.73E+00 | 3.73E+00 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 1.96E-01 | 1.96E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 2.01E+00 | 2.03E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 2.37E+00 | 2.37E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 5.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 5.03E-02 | 5.23E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 1.20E-01 | 1.30E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 3.65E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 3.65E-02 | 3.66E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 1.03E-01 | 1.06E-01 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.84E-01 | 7.81E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 2.02E+00 | 2.02E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.84E-01 | 7.81E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 2.02E+00 | 2.02E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 1.17E-01 | 3.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 7.09E-01 | 7.19E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-02 | 1.46E-02 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 2.07E-01 | 2.08E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E-03 | 3.49E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.13E-01 | 2.14E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.15E-03 | 1.64E-03 | 2.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 3.24E-02 | 3.79E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-02 | 1.80E-02 | 6.76E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 4.27E-02 | 4.27E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-02 | 1.14E-03 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 3.34E-02 | 3.48E-02 |

**Table E3-175**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Reach C10**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 2.08E+01 | 4.17E+01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 9E-03 | 9E-03 | 9E-03 | 9E-03 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Barium** | 2.08E+01 | 4.17E+01 | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 7E-01 | 4E-01 | 8E-01 | 4E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Osprey - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 4E-03 | 4E-03 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Bat** | **tPCB** | 2.30E-01 | 6.80E-01 | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E+00 | 8E-01 | 1E+00 | 8E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 7E-03 | 5E-03 | 7E-03 | 5E-03 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | **4E+01** | **2E+01** | **4E+01** | **2E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | **4E+01** | **--** | **4E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 7E-03 | 4E-03 | 8E-03 | 4E-03 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 8E-03 | 4E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-176**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C10, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | | | | Percent Diet (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.04E+02** | **1.10E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.96E+01** | **2.80E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.81E+00** | **9.73E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.54E+01** | **2.65E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.07E+01** | **2.21E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| | **Barium** | **1.04E+02** | **1.10E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| | **Chromium** | **1.96E+01** | **2.80E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| | **Cobalt** | **9.81E+00** | **9.73E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| | **Lead** | **2.54E+01** | **2.65E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| | **Vanadium** | **2.07E+01** | **2.21E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.04E+02** | **1.10E+02** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.96E+01** | **2.80E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.81E+00** | **9.73E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.54E+01** | **2.65E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.07E+01** | **2.21E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.04E+02** | **1.10E+02** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.96E+01** | **2.80E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.81E+00** | **9.73E+00** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.54E+01** | **2.65E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.07E+01** | **2.21E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| | **Barium** | **1.04E+02** | **1.10E+02** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| | **Chromium** | **1.96E+01** | **2.80E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| | **Cobalt** | **9.81E+00** | **9.73E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| | **Lead** | **2.54E+01** | **2.65E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| | **Vanadium** | **2.07E+01** | **2.21E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | **1.83E+00** | **7.35E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 |
| | **Barium** | **1.04E+02** | **1.10E+02** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 |
| | **Chromium** | **1.96E+01** | **2.80E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 |
| | **Cobalt** | **9.81E+00** | **9.73E+00** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 |
| | **Lead** | **2.54E+01** | **2.65E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 |
| | **Vanadium** | **2.07E+01** | **2.21E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 |

**Table E3-176**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C10, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Percent Diet (%) | | | | | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 |
| **Mink - 1** | **tPCB-mink** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 |
| | **Barium** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 |
| | **Chromium** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 |
| | **Cobalt** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 |
| | **Lead** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 |
| | **Mercury** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 |
| | **Vanadium** | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 |
| **Mink - 2** | **tPCB-mink** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 |
| | **Barium** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 |
| | **Chromium** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 |
| | **Cobalt** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 |
| | **Lead** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 |
| | **Mercury** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 |
| | **Vanadium** | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 |
| | **Barium** | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 |
| | **Chromium** | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 |
| | **Cobalt** | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 |
| | **Lead** | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 |
| | **Mercury** | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 |
| | **Vanadium** | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 |

**Table E3-176**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C10, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Measured Tissue (mg/kg dry weight) | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 9.69E-02 | 4.65E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E+00 | 2.04E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 1.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.96E-01 | 5.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 1.03E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.24E-02 | 2.12E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.28E-01 | 8.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 9.69E-02 | 4.65E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-02 |
| | **Barium** | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 |
| | **Chromium** | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-03 |
| | **Cobalt** | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 |
| | **Lead** | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.35E-03 |
| | **Mercury** | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.91E-04 |
| | **Vanadium** | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 |
| **GBH - high** | **tPCB-high** | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-02 |
| **Mink - 1** | **tPCB-mink** | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-01 |
| | **Barium** | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.45E-01 |
| | **Chromium** | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 |
| | **Cobalt** | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 |
| | **Lead** | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-01 |
| | **Mercury** | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 |
| | **Vanadium** | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 |
| **Mink - 2** | **tPCB-mink** | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.11E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.56E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.11E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.56E-02 |
| | **Barium** | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 |
| | **Chromium** | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-02 |
| | **Cobalt** | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 |
| | **Lead** | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-02 |
| | **Mercury** | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.46E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.90E-04 |
| | **Vanadium** | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 9.62E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-02 |
| **Raccoon - 1** | **tPCB** | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.40E-02 | 0.00E+00 | 2.58E-04 | 1.40E-02 | 0.00E+00 | 2.18E-02 |
| | **Barium** | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 |
| | **Chromium** | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 |
| | **Cobalt** | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 |
| | **Lead** | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 |
| | **Mercury** | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 6.40E-03 | 0.00E+00 | 1.69E-04 | 6.40E-03 | 0.00E+00 | 2.35E-04 |
| | **Vanadium** | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 |
| **Raccoon - 2** | **tPCB** | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.95E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.83E-02 |
| | **Barium** | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-01 |
| | **Chromium** | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-02 |
| | **Cobalt** | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-02 |
| | **Lead** | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-02 |
| | **Mercury** | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.19E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.41E-04 |
| | **Vanadium** | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 8.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 |

**Table E3-176**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C10, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| Spotted Sandpiper - 1 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-02 | 1.18E-02 | 2.66E-05 | 4.94E-01 | 1.09E-01 | 6.03E-01 | 6.03E-01 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E+00 | 1.76E+00 | 2.06E-02 | 2.20E+01 | 7.10E+00 | 2.91E+01 | 2.92E+01 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 4.49E-01 | 3.06E-03 | 2.04E+00 | 7.94E-01 | 2.84E+00 | 2.84E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-01 | 1.56E-01 | 2.07E-03 | 6.63E-01 | 5.51E-01 | 1.21E+00 | 1.22E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.08E-01 | 4.25E-01 | 1.14E-02 | 1.07E+01 | 9.59E-01 | 1.17E+01 | 1.17E+01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.20E-02 | 1.32E-02 | 7.31E-05 | 2.74E-01 | 5.55E-02 | 3.30E-01 | 3.30E-01 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.31E-01 | 3.55E-01 | 2.91E-03 | 1.17E+00 | 5.82E-01 | 1.75E+00 | 1.75E+00 |
| Spotted Sandpiper - 1 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-02 | 1.18E-02 | 2.66E-05 | 4.94E-01 | 1.09E-01 | 6.03E-01 | 6.03E-01 |
| GBH - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 1.84E-03 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.83E-02 | 0.00E+00 | 2.59E-03 | 7.05E-06 | 2.70E-02 | 8.79E+00 | 8.81E+00 | 8.81E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 3.51E-01 | 2.45E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 3.87E-01 | 5.45E-03 | 7.65E-02 | 3.49E+00 | 3.57E+00 | 3.58E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 2.44E-03 | 7.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 9.87E-02 | 8.10E-04 | 8.25E-03 | 9.82E-01 | 9.91E-01 | 9.92E-01 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 3.52E-02 | 7.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 3.42E-02 | 5.49E-04 | 2.75E-02 | 1.56E-01 | 1.83E-01 | 1.84E-01 |
| | Lead | 0.00E+00 | 0.00E+00 | 5.78E-03 | 9.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 0.00E+00 | 9.35E-02 | 3.03E-03 | 9.35E-03 | 2.19E-01 | 2.28E-01 | 2.31E-01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 4.12E-04 | 1.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.94E-03 | 0.00E+00 | 2.89E-03 | 1.94E-05 | 2.91E-04 | 1.84E-01 | 1.85E-01 | 1.85E-01 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 2.44E-03 | 1.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 7.80E-02 | 7.70E-04 | 1.10E-02 | 2.88E-01 | 2.99E-01 | 3.00E-01 |
| GBH - high | tPCB-high | 0.00E+00 | 0.00E+00 | 1.84E-03 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.83E-02 | 0.00E+00 | 2.59E-03 | 7.05E-06 | 2.70E-02 | 8.79E+00 | 8.81E+00 | 8.81E+00 |
| Mink - 1 | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 0.00E+00 | 3.48E-01 | 0.00E+00 | 6.98E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.34E-01 | 4.23E-01 | 7.57E-01 | 7.57E-01 |
| Mink - 1 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 0.00E+00 | 3.48E-01 | 0.00E+00 | 6.98E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.34E-01 | 4.23E-01 | 7.57E-01 | 7.57E-01 |
| | Barium | 0.00E+00 | 0.00E+00 | 8.87E-01 | 0.00E+00 | 0.00E+00 | 3.42E-01 | 0.00E+00 | 5.66E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 9.45E-01 | 1.80E+00 | 2.74E+00 | 2.75E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 2.32E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.02E-01 | 3.54E-01 | 4.56E-01 | 4.58E-01 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 2.00E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 3.10E-01 | 6.50E-01 | 6.51E-01 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.46E-02 | 0.00E+00 | 0.00E+00 | 2.15E-02 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.16E-01 | 8.91E-02 | 2.05E-01 | 2.11E-01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 1.04E-03 | 0.00E+00 | 0.00E+00 | 6.71E-03 | 0.00E+00 | 7.20E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 3.59E-03 | 1.50E-02 | 1.85E-02 | 1.86E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 0.00E+00 | 2.08E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 3.93E-02 | 1.75E-01 | 1.77E-01 |
| Mink - 2 | tPCB-mink | 0.00E+00 | 0.00E+00 | 2.07E-03 | 0.00E+00 | 0.00E+00 | 1.43E+00 | 0.00E+00 | 8.06E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.56E-02 | 1.44E+00 | 1.48E+00 | 1.48E+00 |
| Mink - 2 (Alternative TRV) | tPCB-mink | 0.00E+00 | 0.00E+00 | 2.07E-03 | 0.00E+00 | 0.00E+00 | 1.43E+00 | 0.00E+00 | 8.06E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.56E-02 | 1.44E+00 | 1.48E+00 | 1.48E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 3.94E-01 | 0.00E+00 | 0.00E+00 | 1.40E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.29E-01 | 1.90E+00 | 2.02E+00 | 2.04E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 4.73E-01 | 0.00E+00 | 2.68E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.39E-02 | 5.04E-01 | 5.18E-01 | 5.19E-01 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.80E-01 | 9.27E-01 | 9.28E-01 |
| | Lead | 0.00E+00 | 0.00E+00 | 6.50E-03 | 0.00E+00 | 0.00E+00 | 8.80E-02 | 0.00E+00 | 6.11E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.58E-02 | 1.04E-01 | 1.20E-01 | 1.27E-01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 4.63E-04 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 8.31E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 4.90E-04 | 2.88E-02 | 2.93E-02 | 2.93E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 0.00E+00 | 5.05E-02 | 0.00E+00 | 2.40E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 5.66E-02 | 7.52E-02 | 7.69E-02 |
| Raccoon - 1 | tPCB | 0.00E+00 | 0.00E+00 | 3.64E-03 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 2.96E-02 | 4.37E-03 | 4.61E-03 | 0.00E+00 | 1.30E-05 | 5.99E-02 | 6.88E-02 | 1.29E-01 | 1.29E-01 |
| | Barium | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 2.63E-01 | 0.00E+00 | 1.00E-02 | 4.54E+00 | 7.44E-01 | 5.28E+00 | 5.29E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 4.95E-02 | 0.00E+00 | 1.49E-03 | 2.09E-01 | 2.69E-02 | 2.35E-01 | 2.37E-01 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.47E-02 | 0.00E+00 | 1.01E-03 | 1.32E-01 | 8.34E-02 | 2.15E-01 | 2.16E-01 |
| | Lead | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 6.42E-02 | 0.00E+00 | 5.59E-03 | 6.94E-01 | 1.55E-02 | 7.10E-01 | 7.15E-01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 8.16E-04 | 6.32E-04 | 0.00E+00 | 0.00E+00 | 1.14E-03 | 4.51E-04 | 9.76E-03 | 0.00E+00 | 3.57E-05 | 2.37E-02 | 3.03E-03 | 2.67E-02 | 2.67E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 5.21E-02 | 0.00E+00 | 1.42E-03 | 1.13E-01 | 1.17E-02 | 1.25E-01 | 1.27E-01 |
| Raccoon - 2 | tPCB | 8.76E-04 | 4.17E-02 | 3.64E-03 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E-02 | 0.00E+00 | 1.85E-03 | 1.30E-05 | 7.83E-02 | 3.93E-01 | 4.72E-01 | 4.72E-01 |
| | Barium | 4.83E-02 | 1.19E-01 | 6.95E-01 | 9.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 2.77E-01 | 1.00E-02 | 2.21E-01 | 1.69E+00 | 1.91E+00 | 1.92E+00 |
| | Chromium | 3.11E-03 | 4.68E-02 | 4.84E-03 | 2.81E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-02 | 0.00E+00 | 7.07E-02 | 1.49E-03 | 2.39E-02 | 2.26E-01 | 2.50E-01 | 2.51E-01 |
| | Cobalt | 3.58E-03 | 1.35E-02 | 6.97E-02 | 2.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-03 | 0.00E+00 | 2.45E-02 | 1.01E-03 | 7.96E-02 | 2.78E-01 | 3.57E-01 | 3.58E-01 |
| | Lead | 4.83E-03 | 1.56E-02 | 1.15E-02 | 3.38E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 6.69E-02 | 5.59E-03 | 2.71E-02 | 1.48E-01 | 1.75E-01 | 1.80E-01 |
| | Mercury | 3.83E-04 | 3.01E-03 | 8.16E-04 | 6.60E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 0.00E+00 | 2.07E-03 | 3.57E-05 | 8.41E-04 | 1.50E-02 | 1.58E-02 | 1.59E-02 |
| | Vanadium | 2.06E-03 | 6.56E-03 | 4.84E-03 | 7.33E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-03 | 0.00E+00 | 5.58E-02 | 1.42E-03 | 3.19E-02 | 9.07E-02 | 1.23E-01 | 1.24E-01 |

**Table E3-176**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Reach C10, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aquatic Receptors | COPC | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | 2E-01 | 8E-02 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 2.08E+01 | 4.17E+01 | **1E+00** | 5E-01 | 3E-01 | 2E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 8E-01 | 7E-01 | 3E-01 | 3E-01 | **1E+00** | 1E+00 | **1E+00** | 1E+00 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 9E-02 | 9E-02 | 7E-02 | 7E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **7E+00** | **3E+00** | 6E-01 | 3E-01 | **7E+00** | **4E+00** | **7E+00** | **4E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **1E+01** | **4E+00** | **2E+00** | 8E-01 | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **2E+00** | 8E-01 | **5E+00** | **3E+00** | **5E+00** | **3E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+01** | **4E+00** | **3E+00** | 8E-01 | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **GBH - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 6E-02 | 2E-02 | **2E+01** | **6E+00** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 4E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 4E-01 | 4E-01 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 1E-01 | 7E-02 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 1E-02 | 4E-03 | **8E+00** | **3E+00** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 8E-01 | 4E-01 | 9E-01 | 4E-01 | 9E-01 | 4E-01 |
| **GBH - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | 6E-01 | 2E-01 | **2E+02** | **7E+01** | **2E+02** | **7E+01** | **2E+02** | **7E+01** |
| **Mink - 1** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | **7E+00** | **3E+00** | **8E+00** | **4E+00** | **2E+01** | **8E+00** | **2E+01** | **8E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | **7E+00** | **--** | **8E+00** | **--** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-02 | 8E-03 | 3E-02 | 1E-02 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 4E-02 | 4E-02 | 1E-01 | 1E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 | 6E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 5E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 5E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Mink - 2** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | 9E-01 | 5E-01 | **3E+01** | **1E+01** | **3E+01** | **1E+01** | **3E+01** | **1E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | **--** | 9E-01 | **--** | **3E+01** | **--** | **3E+01** | **--** | **3E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 6E-03 | 5E-03 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 2E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 7E-03 | 3E-03 | 4E-01 | 2E-01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 | 9E-03 | 2E-02 | 9E-03 |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-01 | 9E-02 | 3E-01 | 1E-01 | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 1E-02 | 1E-02 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 1E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 3E-01 | 2E-01 | 4E-02 | 2E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | **2E+00** | 6E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 4E-03 | 2E-03 | 3E-02 | 1E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-02 | 8E-03 | 9E-02 | 8E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 5E-02 | 4E-02 | 5E-02 | 4E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 1E-02 | 6E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 2E-02 | 1E-02 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-177**

**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**

**Reach C10, Aquatic and Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | | | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values (mg/kg dw) | | HQs (unitless) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | |
| Aquatic Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Tree Swallow - mid** | **tPCB-med** | **1.83E+00** | **7.35E-01** | 1.00E+01 | NA | 2.09E-03 | 2.09E-03 | -- | 8.35E-02 | 8.35E-02 | 2.80E+01 | 6.60E+01 | **--** | **--** | 3E-03 | 1E-03 | 3E-03 | 1E-03 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | 8.00E-01 | NA | 5.51E-04 | 5.53E-04 | -- | 1.76E-03 | 1.77E-03 | 4.40E-01 | 8.00E-01 | **--** | **--** | 4E-03 | 2E-03 | 4E-03 | 2E-03 |
| **Tree Swallow - high** | **tPCB-high** | **1.83E+00** | **7.35E-01** | 1.00E+01 | NA | 2.09E-03 | 2.09E-03 | -- | 8.35E-02 | 8.35E-02 | 2.10E+00 | 4.50E+00 | **--** | **--** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **1.83E+00** | **7.35E-01** | 1.00E+01 | 3.21E-02 | 2.13E-03 | 3.42E-02 | 1.28E+00 | 8.51E-02 | 1.37E+00 | 2.80E+01 | 6.60E+01 | 5E-02 | 2E-02 | 3E-03 | 1E-03 | 5E-02 | 2E-02 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | 8.00E-01 | 2.46E-02 | 1.71E-03 | 2.63E-02 | 7.88E-02 | 5.46E-03 | 8.42E-02 | 4.40E-01 | 8.00E-01 | 2E-01 | 1E-01 | 1E-02 | 7E-03 | 2E-01 | 1E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **1.83E+00** | **7.35E-01** | 1.00E+01 | 3.21E-02 | 2.13E-03 | 3.42E-02 | 1.28E+00 | 8.51E-02 | 1.37E+00 | 2.10E+00 | 4.50E+00 | 6E-01 | 3E-01 | 4E-02 | 2E-02 | 7E-01 | 3E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1.83E+00** | **7.35E-01** | 1.00E+01 | NA | 1.78E-01 | 1.78E-01 | -- | 7.10E+00 | 7.10E+00 | 2.80E+01 | 6.60E+01 | **--** | **--** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | 8.00E-01 | NA | 5.42E-03 | 5.42E-03 | -- | 1.73E-02 | 1.74E-02 | 4.40E-01 | 8.00E-01 | **--** | **--** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1.83E+00** | **7.35E-01** | 1.00E+01 | NA | 1.78E-01 | 1.78E-01 | -- | 7.10E+00 | 7.10E+00 | 2.10E+00 | 4.50E+00 | **--** | **--** | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **1.83E+00** | **7.35E-01** | 1.00E+01 | NA | 3.32E-01 | 3.32E-01 | -- | 1.33E+01 | 1.33E+01 | 2.80E+01 | 6.60E+01 | **--** | **--** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | 8.00E-01 | NA | 9.17E-03 | 9.18E-03 | -- | 2.93E-02 | 2.94E-02 | 4.40E-01 | 8.00E-01 | **--** | **--** | 7E-02 | 4E-02 | 7E-02 | 4E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **1.83E+00** | **7.35E-01** | 1.00E+01 | NA | 3.32E-01 | 3.32E-01 | -- | 1.33E+01 | 1.33E+01 | 2.10E+00 | 4.50E+00 | **--** | **--** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **1.83E+00** | **7.35E-01** | 1.00E+01 | NA | 2.56E-01 | 2.56E-01 | -- | 1.02E+01 | 1.02E+01 | 2.80E+01 | 6.60E+01 | **--** | **--** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | **3.87E+00** | **8.22E-01** | 8.00E-01 | NA | 8.47E-03 | 8.47E-03 | -- | 2.71E-02 | 2.71E-02 | 4.40E-01 | 8.00E-01 | **--** | **--** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **1.83E+00** | **7.35E-01** | 1.00E+01 | NA | 2.56E-01 | 2.56E-01 | -- | 1.02E+01 | 1.02E+01 | 2.10E+00 | 4.50E+00 | **--** | **--** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **GBH - mid** | **tPCB-med** | **1.83E+00** | **7.35E-01** | 1.00E+01 | 1.17E-02 | 6.31E+00 | 6.32E+00 | 4.66E-01 | 2.52E+02 | 2.53E+02 | 2.80E+01 | 6.60E+01 | 2E-02 | 7E-03 | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Mercury** | **3.87E+00** | **8.22E-01** | 8.00E-01 | 2.17E-03 | 1.89E-01 | 1.91E-01 | 6.95E-03 | 6.06E-01 | 6.13E-01 | 4.40E-01 | 8.00E-01 | 2E-02 | 9E-03 | **1E+00** | 8E-01 | **1E+00** | 8E-01 |
| **GBH - high** | **tPCB-high** | **1.83E+00** | **7.35E-01** | 1.00E+01 | 1.17E-02 | 6.31E+00 | 6.32E+00 | 4.66E-01 | 2.52E+02 | 2.53E+02 | 2.10E+00 | 4.50E+00 | 2E-01 | 1E-01 | **1E+02** | **6E+01** | **1E+02** | **6E+01** |
| **Osprey - mid** | **tPCB-med** | **1.83E+00** | **7.35E-01** | 1.00E+01 | NA | 1.86E+00 | 1.86E+00 | -- | 7.45E+01 | 7.45E+01 | 2.80E+01 | 6.60E+01 | **--** | **--** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Mercury** | **3.87E+00** | **8.22E-01** | 8.00E-01 | NA | 5.15E-02 | 5.15E-02 | -- | 1.65E-01 | 1.65E-01 | 4.40E-01 | 8.00E-01 | **--** | **--** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Osprey - high** | **tPCB-high** | **1.83E+00** | **7.35E-01** | 1.00E+01 | NA | 1.86E+00 | 1.86E+00 | -- | 7.45E+01 | 7.45E+01 | 2.10E+00 | 4.50E+00 | **--** | **--** | **4E+01** | **2E+01** | **4E+01** | **2E+01** |

**Notes:**

COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient

**Bold indicates hazard quotients greater than 1**

**Table E3-178**

**Lower Trophic Level Terrestrial Risk Calculations For LAA**

**Anniston PCB Site, Anniston, Alabama**

| Media | Receptor Community | COPC | Soil EPC (mg/kg) | Toxicity Benchmarks[a] (mg/kg) | | Hazard Quotients | |
|---|---|---|---|---|---|---|---|
| | | | | NOAEL | LOAEL | NOAEL | LOAEL |
| Soil - Combined | **Terrestrial Plants** | **PCB** | 8.21E-01 | 4.00E+01 | NA | 2E-02 | -- |
| | | **Chromium** | 2.02E+01 | 1.00E+00 | NA | **2E+01** | -- |
| | | **Lead** | 2.35E+01 | 1.20E+02 | NA | 2E-01 | -- |
| | | **Mercury** | 9.38E-01 | 3.00E-01 | NA | **3E+00** | -- |
| | | **Vanadium** | 2.37E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 8.21E-01 | 3.60E+00 | 3.60E+01 | 2E-01 | 2E-02 |
| | | **Chromium** | 2.02E+01 | 4.00E-01 | NA | **5E+01** | -- |
| | | **Lead** | 2.35E+01 | 1.70E+03 | NA | 1E-02 | -- |
| | | **Mercury** | 9.38E-01 | 1.00E-01 | 0.23 | **9E+00** | **4E+00** |
| | | **Vanadium** | 2.37E+01 | NA | NA | -- | -- |
| Soil - Riparian | **Terrestrial Plants** | **PCB** | 1.83E+00 | 4.00E+01 | NA | 5E-02 | -- |
| | | **Chromium** | 1.96E+01 | 1.00E+00 | NA | **2E+01** | -- |
| | | **Lead** | 2.54E+01 | 1.20E+02 | NA | 2E-01 | -- |
| | | **Mercury** | 3.87E+00 | 3.00E-01 | NA | **1E+01** | -- |
| | | **Vanadium** | 2.07E+01 | 2.00E+00 | NA | **1E+01** | -- |
| | **Terrestrial Invertebrates** | **PCB** | 1.83E+00 | 3.60E+00 | 3.60E+01 | 5E-01 | 5E-02 |
| | | **Chromium** | 1.96E+01 | 4.00E-01 | NA | **5E+01** | -- |
| | | **Lead** | 2.54E+01 | 1.70E+03 | NA | 1E-02 | -- |
| | | **Mercury** | 3.87E+00 | 1.00E-01 | 0.23 | **4E+01** | **2E+01** |
| | | **Vanadium** | 2.07E+01 | NA | NA | -- | -- |

**Notes:**
a = NOAELs represent chronic values and LOAELs represent acute values
COPC = constituent of potential concern
EPC - exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
NA = not applicable
NOAEL = no observed adverse effect level
OU = Operable Unit
PCB = total polychlorinated biphenyl
**Bold indicates hazard quotients greater than 1**

**Table E3-179**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| Tree Swallow - mid | tPCB-med | 1.11E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 9.42E+01 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 2.43E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 8.63E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 2.29E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 1.07E+00 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 1.89E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Tree Swallow - high | tPCB-high | 1.11E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Spotted Sandpiper - 2 - mid | tPCB-med | 1.11E+00 | 1.57E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Barium | 9.42E+01 | 1.21E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Chromium | 2.43E+01 | 1.80E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Cobalt | 8.63E+00 | 1.22E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Lead | 2.29E+01 | 6.73E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Mercury | 1.07E+00 | 4.30E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | Vanadium | 1.89E+01 | 1.71E-02 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| Spotted Sandpiper - 2 - high | tPCB-high | 1.11E+00 | 1.57E-04 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| Kingfisher - 1 - mid | tPCB-med | 1.11E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Barium | 9.42E+01 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Chromium | 2.43E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Cobalt | 8.63E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Lead | 2.29E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Mercury | 1.07E+00 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | Vanadium | 1.89E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| Kingfisher - 1 - high | tPCB-high | 1.11E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| Kingfisher - 2 - mid | tPCB-med | 1.11E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Barium | 9.42E+01 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Chromium | 2.43E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Cobalt | 8.63E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Lead | 2.29E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Mercury | 1.07E+00 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | Vanadium | 1.89E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| Kingfisher - 2 - high | tPCB-high | 1.11E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| Osprey - mid | tPCB-med | 1.11E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 9.42E+01 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 2.43E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 8.63E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 2.29E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 1.07E+00 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 1.89E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Osprey - high | tPCB-high | 1.11E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Bat | tPCB | 1.11E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 9.42E+01 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 2.43E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 8.63E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 2.29E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 1.07E+00 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 1.89E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Otter | tPCB-mink | 1.11E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Otter (Alternative TRV) | tPCB-mink | 1.11E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 9.42E+01 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 2.43E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 8.63E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 2.29E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 1.07E+00 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 1.89E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-179**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | |
|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish |
| **Tree Swallow - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Osprey - mid** | **tPCB-med** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Osprey - high** | **tPCB-high** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Bat** | **tPCB** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |
| **Otter** | **tPCB-mink** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.58E-01 | 5.76E-01 | 5.63E-01 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 |
| | **Barium** | 1.47E+00 | 9.13E-01 | 5.33E-02 | 9.13E-01 | 7.98E-01 | 5.68E+00 |
| | **Chromium** | 2.82E-01 | 3.53E-01 | 1.10E+00 | 3.53E-01 | 1.27E+00 | 7.66E-02 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 1.24E+00 | 7.42E-02 | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg |
| | **Lead** | 5.07E-01 | 7.97E-01 | 2.06E-02 | 7.97E-01 | 1.04E+00 | 1.29E-01 |
| | **Mercury** | 8.01E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | 1.33E-01 | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 |
| | **Vanadium** | 3.29E-01 | 4.37E-01 | 8.00E-02 | 4.37E-01 | 5.54E-01 | 1.87E-01 |

**Table E3-179**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 2.24E+01 | 6.21E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 2.96E-01 | 2.34E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 1.75E-01 | 1.59E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 7.42E-02 | 6.01E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 2.56E-02 | 2.55E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 5.54E-01 | 1.58E+00 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 4.87E-02 | 2.79E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-179**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 1.50E-01 | 1.50E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 1.21E+00 | 1.23E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 6.39E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 6.39E+00 | 6.39E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 1.54E-01 | 1.56E-01 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.13E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 1.13E-01 | 1.27E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 3.41E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 3.41E-02 | 3.42E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 3.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 3.62E-01 | 3.66E-01 | 3.44E-01 | 7.00E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 1.50E-01 | 1.50E-01 | 4.33E-02 | 1.30E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 5.69E-02 | 0.00E+00 | 5.27E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.56E-02 | 2.66E-05 | 5.36E+00 | 5.36E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 7.65E+00 | 0.00E+00 | 7.65E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.02E+00 | 2.06E-02 | 1.83E+01 | 1.83E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 7.62E-01 | 0.00E+00 | 7.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.77E-01 | 3.06E-03 | 2.30E+00 | 2.31E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 9.56E-01 | 0.00E+00 | 9.56E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.76E-01 | 2.07E-03 | 2.19E+00 | 2.19E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 1.62E+00 | 0.00E+00 | 1.62E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.33E-01 | 1.14E-02 | 3.98E+00 | 3.99E+00 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 2.87E-02 | 0.00E+00 | 9.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-02 | 7.31E-05 | 1.58E-01 | 1.58E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 7.33E-01 | 0.00E+00 | 7.33E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.04E-01 | 2.91E-03 | 2.07E+00 | 2.07E+00 | 3.44E-01 | 7.00E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 5.69E-02 | 0.00E+00 | 5.27E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.56E-02 | 2.66E-05 | 5.36E+00 | 5.36E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.38E+00 | 0.00E+00 | 0.00E+00 | 3.50E-03 | 1.72E-05 | 3.38E+00 | 3.38E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E+01 | 0.00E+00 | 0.00E+00 | 2.97E-01 | 1.33E-02 | 1.42E+01 | 1.42E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.26E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 | 1.98E-03 | 2.34E+00 | 2.34E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 2.72E-02 | 1.34E-03 | 3.07E+00 | 3.07E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.85E-02 | 0.00E+00 | 0.00E+00 | 7.21E-02 | 7.40E-03 | 1.51E-01 | 1.58E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.73E-02 | 0.00E+00 | 0.00E+00 | 3.37E-03 | 4.73E-05 | 8.06E-02 | 8.07E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.77E-01 | 0.00E+00 | 0.00E+00 | 5.94E-02 | 1.88E-03 | 5.36E-01 | 5.38E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.38E+00 | 0.00E+00 | 0.00E+00 | 3.50E-03 | 1.72E-05 | 3.38E+00 | 3.38E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 0.00E+00 | 0.00E+00 | 2.57E+00 | 0.00E+00 | 1.91E-02 | 3.50E-03 | 1.72E-05 | 2.61E+00 | 2.61E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E+01 | 0.00E+00 | 0.00E+00 | 1.06E+01 | 0.00E+00 | 8.72E-01 | 2.97E-01 | 1.33E-02 | 2.78E+01 | 2.78E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.57E-02 | 0.00E+00 | 0.00E+00 | 1.72E+00 | 0.00E+00 | 2.11E-01 | 7.65E-02 | 1.98E-03 | 2.06E+00 | 2.07E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 2.65E-02 | 2.72E-02 | 1.34E-03 | 2.97E+00 | 2.97E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.87E-02 | 0.00E+00 | 0.00E+00 | 5.96E-02 | 0.00E+00 | 7.09E-02 | 7.21E-02 | 7.40E-03 | 2.91E-01 | 2.99E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.70E-03 | 0.00E+00 | 0.00E+00 | 5.87E-02 | 0.00E+00 | 4.66E-03 | 3.37E-03 | 4.73E-05 | 7.24E-02 | 7.25E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-01 | 0.00E+00 | 0.00E+00 | 3.62E-01 | 0.00E+00 | 2.68E-02 | 5.94E-02 | 1.88E-03 | 5.54E-01 | 5.56E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 0.00E+00 | 0.00E+00 | 2.57E+00 | 0.00E+00 | 1.91E-02 | 3.50E-03 | 1.72E-05 | 2.61E+00 | 2.61E+00 | 4.33E-02 | 1.30E-01 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.76E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 1.76E+00 | 1.76E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 1.97E+00 | 1.97E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 2.99E-01 | 3.00E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.52E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 4.52E-02 | 4.59E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.14E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 4.14E-02 | 4.48E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.19E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 4.19E-02 | 4.19E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.49E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 6.49E-02 | 6.58E-02 | 3.44E-01 | 7.00E-01 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.76E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 1.76E+00 | 1.76E+00 | 4.33E-02 | 1.30E-01 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 1.11E-01 | 1.11E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 8.90E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 8.90E-01 | 9.10E-01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.71E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 4.71E+00 | 4.72E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.13E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 1.13E-01 | 1.15E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 8.33E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 8.33E-02 | 9.40E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 2.52E-02 | 2.53E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 2.67E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 2.67E-01 | 2.70E-01 | 4.16E+00 | 8.31E+00 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.16E-01 | 5.29E-01 | 2.24E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.17E+00 | 1.17E+00 | 5.00E-02 | 1.00E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.16E-01 | 5.29E-01 | 2.24E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 1.17E+00 | 1.17E+00 | na | 5.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.66E-01 | 1.69E-01 | 9.25E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 1.56E+00 | 1.57E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.09E-02 | 2.97E-02 | 1.50E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 2.51E-01 | 2.52E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E-02 | 3.98E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.17E-01 | 2.18E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 4.47E-03 | 5.21E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 1.95E-02 | 2.49E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.92E-03 | 1.30E-02 | 5.13E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 2.81E-02 | 2.81E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.54E-02 | 4.03E-03 | 3.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 5.11E-02 | 5.24E-02 | 4.16E+00 | 8.31E+00 |

**Table E3-179**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Barium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 7E-02 | 3E-02 | 8E-02 | 4E-02 |
| | **Mercury** | **2E+00** | 5E-01 | **2E+00** | 5E-01 |
| | **Vanadium** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| **Tree Swallow - high** | **tPCB-high** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 9E-01 | 4E-01 | 9E-01 | 4E-01 |
| | **Chromium** | 9E-01 | 8E-01 | 9E-01 | 8E-01 |
| | **Cobalt** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Mercury** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Vanadium** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **7E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Barium** | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| | **Chromium** | 9E-01 | 8E-01 | 9E-01 | 8E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 9E-02 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | **8E+01** | **3E+01** | **8E+01** | **3E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| | **Barium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Mercury** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | **6E+01** | **2E+01** | **6E+01** | **2E+01** |
| **Osprey - mid** | **tPCB-med** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 6E-03 | 6E-03 | 6E-03 | 6E-03 |
| | **Lead** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Vanadium** | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| **Osprey - high** | **tPCB-high** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Bat** | **tPCB** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Barium** | 2E-02 | 7E-03 | 2E-02 | 8E-03 |
| | **Chromium** | **2E+00** | **2E+00** | **2E+00** | **2E+00** |
| | **Cobalt** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 2E-02 | 9E-03 | 2E-02 | 1E-02 |
| | **Mercury** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Otter** | **tPCB-mink** | **2E+01** | **1E+01** | **2E+01** | **1E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | **--** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Chromium** | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4E-03 | 2E-03 | 5E-03 | 3E-03 |
| | **Mercury** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 1E-02 | 6E-03 | 1E-02 | 6E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-180**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil |
| **Mourning Dove - mid** | **tPCB-med** | **8.21E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| **Mourning Dove - high** | **tPCB-high** | **8.21E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 |
| **Blue Jay - mid** | **tPCB-med** | **8.21E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Blue Jay - high** | **tPCB-high** | **8.21E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **8.21E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **8.21E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Shrew - 1** | **tPCB** | **8.21E-01** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 |
| **Deer** | **tPCB** | **8.21E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Weasel** | **tPCB** | **8.21E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 |
| **Fox - 1** | **tPCB** | **8.21E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 |
| **Fox - 2** | **tPCB** | **8.21E-01** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 |

**Table E3-180**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Bioaccumulation Factors | Bioaccumulation Factors | | | Body Weight (kg) |
|---|---|---|---|---|---|---|
| | | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) |
| **Mourning Dove - mid** | **tPCB-med** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 |
| | **Mercury** | 5.00E-02 | 6.51E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 1.20E-01 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 1.20E-01 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 1.20E-01 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.20E-01 |
| **Mourning Dove - high** | **tPCB-high** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.20E-01 |
| **Blue Jay - mid** | **tPCB-med** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 |
| | **Mercury** | 5.00E-02 | 6.51E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 8.70E-02 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 8.70E-02 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 8.70E-02 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 8.70E-02 |
| **Blue Jay - high** | **tPCB-high** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 8.70E-02 |
| **Carolina Wren -1 - mid** | **tPCB-med** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 |
| | **Mercury** | 5.00E-02 | 6.51E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 2.00E-02 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 2.00E-02 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 2.00E-02 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 2.00E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 2.00E-02 |
| **Shrew - 1** | **tPCB** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 1.70E-02 |
| | **Mercury** | 5.00E-02 | 6.51E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 1.70E-02 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 1.70E-02 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 1.70E-02 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 1.70E-02 |
| **Deer** | **tPCB** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 5.66E+01 |
| | **Mercury** | 5.00E-02 | 6.51E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 5.66E+01 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 5.66E+01 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 5.66E+01 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 5.66E+01 |
| **Weasel** | **tPCB** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 3.00E-01 |
| | **Mercury** | 5.00E-02 | 6.51E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 3.00E-01 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 3.00E-01 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 3.00E-01 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 3.00E-01 |
| **Fox - 1** | **tPCB** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 |
| | **Mercury** | 5.00E-02 | 6.51E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 4.50E+00 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 4.50E+00 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 4.50E+00 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 |
| **Fox - 2** | **tPCB** | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 1.70E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | 4.50E+00 |
| | **Mercury** | 5.00E-02 | 6.51E-02 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.39E-01 | 4.50E+00 |
| | **Chromium** | 8.99E-02 | Measured Tissue = 7.38 mg/kg | 9.17E-01 | 2.99E-01 | 4.50E+00 |
| | **Lead** | 3.14E-03 | 8.24E-03 | 6.62E-01 | 9.77E-02 | 4.50E+00 |
| | **Vanadium** | 7.10E-03 | 8.21E-03 | 6.27E-01 | Measured Tissue = 6.25 mg/kg | 4.50E+00 |

**Table E3-180**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/ Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Mourning Dove - mid** | **tPCB-med** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 7.41E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-02 | 1.88E-05 | 9.02E-02 | 9.02E-02 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.62E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-02 | 5.16E-05 | 2.50E-02 | 2.51E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.57E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.97E-01 | 2.16E-03 | 6.54E-01 | 6.56E-01 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.04E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.61E-01 | 8.08E-03 | 4.72E-01 | 4.80E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 2.38E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.66E-01 | 2.05E-03 | 4.90E-01 | 4.92E-01 | 3.44E-01 | 7.00E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 7.41E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-02 | 1.88E-05 | 9.02E-02 | 9.02E-02 | 4.33E-02 | 1.30E-01 |
| **Blue Jay - mid** | **tPCB-med** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 6.26E-02 | 2.35E-03 | 0.00E+00 | 5.56E-02 | 0.00E+00 | 1.76E-02 | 2.04E-05 | 1.38E-01 | 1.38E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.59E-03 | 1.03E-03 | 0.00E+00 | 3.22E-02 | 0.00E+00 | 2.01E-02 | 5.59E-05 | 5.89E-02 | 5.89E-02 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.17E-01 | 1.24E-01 | 0.00E+00 | 3.12E-01 | 0.00E+00 | 4.33E-01 | 2.34E-03 | 1.09E+00 | 1.09E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 8.80E-03 | 3.26E-03 | 0.00E+00 | 2.62E-01 | 0.00E+00 | 5.03E-01 | 8.75E-03 | 7.77E-01 | 7.86E-01 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.01E-02 | 3.28E-03 | 0.00E+00 | 2.50E-01 | 0.00E+00 | 5.08E-01 | 2.22E-03 | 7.82E-01 | 7.84E-01 | 3.44E-01 | 7.00E-01 |
| **Blue Jay - high** | **tPCB-high** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 6.26E-02 | 2.35E-03 | 0.00E+00 | 5.56E-02 | 0.00E+00 | 1.76E-02 | 2.04E-05 | 1.38E-01 | 1.38E-01 | 4.33E-02 | 1.30E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.15E-02 | 1.53E-02 | 1.21E-01 | 2.50E-01 | 0.00E+00 | 2.80E-02 | 4.23E-05 | 4.26E-01 | 4.26E-01 | 4.67E-01 | 1.40E+00 |
| | **Mercury** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.03E-03 | 6.69E-03 | 6.99E-02 | 1.44E-01 | 0.00E+00 | 3.20E-02 | 1.16E-04 | 2.54E-01 | 2.54E-01 | 2.27E-02 | 6.80E-02 |
| | **Chromium** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.99E-02 | 8.09E-01 | 6.78E-01 | 1.40E+00 | 0.00E+00 | 6.90E-01 | 4.86E-03 | 3.62E+00 | 3.62E+00 | 2.66E+00 | 2.80E+00 |
| | **Lead** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.62E-03 | 2.12E-02 | 5.69E-01 | 1.18E+00 | 0.00E+00 | 8.02E-01 | 1.82E-02 | 2.57E+00 | 2.59E+00 | 1.63E+00 | 3.26E+00 |
| | **Vanadium** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 3.70E-03 | 2.14E-02 | 5.44E-01 | 1.12E+00 | 0.00E+00 | 8.10E-01 | 4.62E-03 | 2.50E+00 | 2.51E+00 | 3.44E-01 | 7.00E-01 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.15E-02 | 1.53E-02 | 1.21E-01 | 2.50E-01 | 0.00E+00 | 2.80E-02 | 4.23E-05 | 4.26E-01 | 4.26E-01 | 4.33E-02 | 1.30E-01 |
| **Shrew - 1** | **tPCB** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 8.05E-03 | 4.55E-03 | 1.56E-01 | 1.08E-01 | 0.00E+00 | 3.15E-03 | 2.35E-05 | 2.80E-01 | 2.80E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 7.19E-04 | 1.99E-03 | 9.04E-02 | 6.23E-02 | 0.00E+00 | 3.60E-03 | 6.45E-05 | 1.59E-01 | 1.59E-01 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.79E-02 | 2.41E-01 | 8.77E-01 | 6.05E-01 | 0.00E+00 | 7.75E-02 | 2.70E-03 | 1.83E+00 | 1.83E+00 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.13E-03 | 6.31E-03 | 7.36E-01 | 5.07E-01 | 0.00E+00 | 9.02E-02 | 1.01E-02 | 1.34E+00 | 1.35E+00 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 2.58E-03 | 6.35E-03 | 7.04E-01 | 4.85E-01 | 0.00E+00 | 9.10E-02 | 2.57E-03 | 1.29E+00 | 1.29E+00 | 4.16E+00 | 8.31E+00 |
| **Deer** | **tPCB** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 7.69E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.41E-04 | 1.03E-05 | 7.93E-03 | 7.94E-03 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.87E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-04 | 2.84E-05 | 9.62E-04 | 9.91E-04 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.66E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.93E-03 | 1.19E-03 | 3.26E-02 | 3.37E-02 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.08E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.89E-03 | 4.44E-03 | 7.97E-03 | 1.24E-02 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 2.47E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.95E-03 | 1.13E-03 | 9.42E-03 | 1.06E-02 | 4.16E+00 | 8.31E+00 |
| **Weasel** | **tPCB** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-01 | 2.10E-03 | 1.72E-05 | 1.13E-01 | 1.13E-01 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.71E-03 | 2.39E-03 | 4.73E-05 | 1.01E-02 | 1.02E-02 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-01 | 5.16E-02 | 1.98E-03 | 4.10E-01 | 4.12E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 6.00E-02 | 7.40E-03 | 1.96E-01 | 2.04E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 6.06E-02 | 1.88E-03 | 4.32E-01 | 4.33E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 1** | **tPCB** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.38E-03 | 0.00E+00 | 5.01E-03 | 0.00E+00 | 5.57E-02 | 8.70E-04 | 1.33E-05 | 6.49E-02 | 6.49E-02 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.02E-04 | 0.00E+00 | 2.90E-03 | 0.00E+00 | 3.89E-03 | 9.95E-04 | 3.66E-05 | 8.08E-03 | 8.12E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.17E-02 | 0.00E+00 | 2.81E-02 | 0.00E+00 | 1.81E-01 | 2.14E-02 | 1.53E-03 | 2.42E-01 | 2.44E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.75E-04 | 0.00E+00 | 2.36E-02 | 0.00E+00 | 6.87E-02 | 2.49E-02 | 5.72E-03 | 1.18E-01 | 1.23E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.08E-03 | 0.00E+00 | 2.25E-02 | 0.00E+00 | 1.87E-01 | 2.52E-02 | 1.45E-03 | 2.36E-01 | 2.37E-01 | 4.16E+00 | 8.31E+00 |
| **Fox - 2** | **tPCB** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 9.94E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.69E-02 | 8.70E-04 | 1.33E-05 | 6.88E-02 | 6.88E-02 | 2.30E-01 | 6.80E-01 |
| | **Mercury** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.88E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.67E-03 | 9.95E-04 | 3.66E-05 | 5.76E-03 | 5.79E-03 | 7.50E-02 | 1.50E-01 |
| | **Chromium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E-01 | 2.14E-02 | 1.53E-03 | 2.42E-01 | 2.44E-01 | 2.40E+00 | 2.82E+00 |
| | **Lead** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.40E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.26E-02 | 2.49E-02 | 5.72E-03 | 1.08E-01 | 1.13E-01 | 4.70E+00 | 8.90E+00 |
| | **Vanadium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.19E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.52E-02 | 1.45E-03 | 2.50E-01 | 2.52E-01 | 4.16E+00 | 8.31E+00 |

**Table E3-180**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 2E-01 | 6E-02 | 2E-01 | 6E-02 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| **Blue Jay - mid** | **tPCB-med** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Chromium** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| **Blue Jay - high** | **tPCB-high** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Mercury** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | **7E+00** | **4E+00** | **7E+00** | **4E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| **Shrew - 1** | **tPCB** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Mercury** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Chromium** | 8E-01 | 6E-01 | 8E-01 | 6E-01 |
| | **Lead** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| **Deer** | **tPCB** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 1E-02 | 6E-03 | 1E-02 | 7E-03 |
| | **Chromium** | 1E-02 | 1E-02 | 1E-02 | 1E-02 |
| | **Lead** | 2E-03 | 9E-04 | 3E-03 | 1E-03 |
| | **Vanadium** | 2E-03 | 1E-03 | 3E-03 | 1E-03 |
| **Weasel** | **tPCB** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Vanadium** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Chromium** | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Chromium** | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Vanadium** | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-181**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| Carolina Wren - 2 - mid | tPCB-med | 8.21E-01 | 1.11E+00 | 1.57E-04 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Barium | 1.02E+02 | 9.42E+01 | 1.21E-01 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Chromium | 2.02E+01 | 2.43E+01 | 1.80E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 1.05E+01 | 8.63E+00 | 1.22E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Lead | 2.35E+01 | 2.29E+01 | 6.73E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Mercury | 9.38E-01 | 1.07E+00 | 4.30E-04 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 2.37E+01 | 1.89E+01 | 1.71E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| Carolina wren - 2 - high | tPCB-high | 8.21E-01 | 1.11E+00 | 1.57E-04 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 |
| Hawk - mid | tPCB-med | 8.21E-01 | 1.11E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Barium | 1.02E+02 | 9.42E+01 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Chromium | 2.02E+01 | 2.43E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Cobalt | 1.05E+01 | 8.63E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Lead | 2.35E+01 | 2.29E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Mercury | 9.38E-01 | 1.07E+00 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| | Vanadium | 2.37E+01 | 1.89E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| Hawk - high | tPCB-high | 8.21E-01 | 1.11E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 |
| Raccoon - 1 | tPCB | 8.21E-01 | 1.11E+00 | 1.57E-04 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Barium | 1.02E+02 | 9.42E+01 | 1.21E-01 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Chromium | 2.02E+01 | 2.43E+01 | 1.80E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Cobalt | 1.05E+01 | 8.63E+00 | 1.22E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Lead | 2.35E+01 | 2.29E+01 | 6.73E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Mercury | 9.38E-01 | 1.07E+00 | 4.30E-04 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| | Vanadium | 2.37E+01 | 1.89E+01 | 1.71E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 |
| Shrew - 2 | tPCB | 8.21E-01 | 1.11E+00 | 1.57E-04 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Barium | 1.02E+02 | 9.42E+01 | 1.21E-01 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Chromium | 2.02E+01 | 2.43E+01 | 1.80E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Cobalt | 1.05E+01 | 8.63E+00 | 1.22E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Lead | 2.35E+01 | 2.29E+01 | 6.73E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Mercury | 9.38E-01 | 1.07E+00 | 4.30E-04 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |
| | Vanadium | 2.37E+01 | 1.89E+01 | 1.71E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 |

**Table E3-181**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | Bioaccumulation Factors | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Aquatic Plants | Terrestrial Plants |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 3.29E-01 | 7.10E-03 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.29E-01 | 7.10E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 1.47E+00 | 8.70E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 2.82E-01 | 8.99E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | Measured Tissue = 34.72 mg/kg | 5.69E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 5.07E-01 | 3.14E-03 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 8.01E-02 | 5.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 | 3.29E-01 | 7.10E-03 |

**Table E3-181**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Carolina wren - 2 - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Hawk - mid** | **tPCB-med** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Hawk - high** | **tPCB-high** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| **Raccoon - 1** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |
| **Shrew - 2** | **tPCB** | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 |
| | **Barium** | 9.13E-01 | 8.18E-01 | 5.33E-02 | 3.92E-02 | 2.11E-01 |
| | **Chromium** | 3.53E-01 | 9.17E-01 | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 |
| | **Cobalt** | 1.24E+00 | 8.58E-01 | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg |
| | **Lead** | 7.97E-01 | 6.62E-01 | 2.06E-02 | 8.24E-03 | 9.77E-02 |
| | **Mercury** | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 | 1.33E-01 | 6.51E-02 | 1.39E-01 |
| | **Vanadium** | 4.37E-01 | 6.27E-01 | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg |

**Table E3-181**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish |
| Carolina Wren - 2 - mid | tPCB-med | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | Barium | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | Chromium | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | Cobalt | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | Lead | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | Mercury | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | Vanadium | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| Carolina wren - 2 - high | tPCB-high | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| Hawk - mid | tPCB-med | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | Barium | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | Chromium | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | Cobalt | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | Lead | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | Mercury | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | Vanadium | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| Hawk - high | tPCB-high | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| Raccoon - 1 | tPCB | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | Barium | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | Chromium | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | Cobalt | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | Lead | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | Mercury | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | Vanadium | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |
| Shrew - 2 | tPCB | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 | 5.84E-01 | 2.24E+01 | 1.93E+01 |
| | Barium | 9.13E-01 | 7.98E-01 | 5.68E+00 | 2.96E-01 | 9.39E-01 |
| | Chromium | 3.53E-01 | 1.27E+00 | 7.66E-02 | 1.75E-01 | 5.92E-01 |
| | Cobalt | 1.24E+00 | 1.69E+00 | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg |
| | Lead | 7.97E-01 | 1.04E+00 | 1.29E-01 | 2.56E-02 | 2.18E-02 |
| | Mercury | 1.00E+00 | 8.26E-01 | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 |
| | Vanadium | 4.37E-01 | 5.54E-01 | 1.87E-01 | 4.87E-02 | 1.61E-01 |

**Table E3-181**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2.45E+01 | 2.18E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Carolina wren - 2 - high** | **tPCB-high** | 2.45E+01 | 2.18E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| **Hawk - mid** | **tPCB-med** | 2.45E+01 | 2.18E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Hawk - high** | **tPCB-high** | 2.45E+01 | 2.18E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| **Raccoon - 1** | **tPCB** | 2.45E+01 | 2.18E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| **Shrew - 2** | **tPCB** | 2.45E+01 | 2.18E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Barium** | 2.65E-01 | 1.17E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Chromium** | Measured Tissue = 9.01 mg/kg | 1.11E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Cobalt** | Measured Tissue = 22.53 mg/kg | 3.90E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Lead** | 8.90E-02 | 3.93E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Mercury** | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | **Vanadium** | Measured Tissue = 9.01 mg/kg | 1.80E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-181**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 6.27E-03 | 0.00E+00 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 1.53E-02 | 0.00E+00 | 3.53E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 3.05E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 4.37E-01 | 0.00E+00 | 5.82E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 1.50E-01 | 0.00E+00 | 0.00E+00 | 6.78E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.68E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 3.28E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 5.59E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 2.55E-01 | 0.00E+00 | 0.00E+00 | 5.69E-01 | 0.00E+00 | 2.12E-02 | 0.00E+00 | 1.14E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.88E-03 | 0.00E+00 | 0.00E+00 | 6.99E-02 | 0.00E+00 | 6.69E-03 | 0.00E+00 | 1.57E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 1.36E-01 | 0.00E+00 | 0.00E+00 | 5.44E-01 | 0.00E+00 | 2.14E-02 | 0.00E+00 | 8.93E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 6.27E-03 | 0.00E+00 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 1.53E-02 | 0.00E+00 | 3.53E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.06E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 6.19E-03 | 0.00E+00 | 8.87E-03 | 0.00E+00 | 3.74E-04 | 8.87E-03 | 0.00E+00 | 2.65E-03 | 0.00E+00 | 0.00E+00 | 2.26E-03 | 1.47E-02 |
| | **Barium** | 0.00E+00 | 1.04E+00 | 0.00E+00 | 2.23E-01 | 0.00E+00 | 1.07E-02 | 2.23E-01 | 0.00E+00 | 3.04E-02 | 0.00E+00 | 0.00E+00 | 1.87E+00 | 1.64E-02 |
| | **Chromium** | 0.00E+00 | 2.15E-02 | 0.00E+00 | 4.98E-02 | 0.00E+00 | 1.98E-02 | 4.98E-02 | 0.00E+00 | 8.60E-03 | 0.00E+00 | 0.00E+00 | 6.48E-03 | 2.50E-03 |
| | **Cobalt** | 0.00E+00 | 7.01E-03 | 0.00E+00 | 2.41E-02 | 0.00E+00 | 4.95E-02 | 2.41E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 3.78E-04 |
| | **Lead** | 0.00E+00 | 8.71E-04 | 0.00E+00 | 4.17E-02 | 0.00E+00 | 5.20E-04 | 4.17E-02 | 0.00E+00 | 3.27E-03 | 0.00E+00 | 0.00E+00 | 1.03E-02 | 3.46E-04 |
| | **Mercury** | 0.00E+00 | 5.54E-04 | 0.00E+00 | 5.13E-03 | 0.00E+00 | 1.64E-04 | 5.13E-03 | 0.00E+00 | 1.85E-04 | 0.00E+00 | 0.00E+00 | 6.63E-04 | 3.50E-04 |
| | **Vanadium** | 0.00E+00 | 1.99E-03 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 5.23E-04 | 3.99E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 5.42E-04 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 1.14E-02 | 0.00E+00 | 1.73E-01 | 0.00E+00 | 3.12E-03 | 7.40E-02 | 0.00E+00 | 1.19E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 1.92E+00 | 0.00E+00 | 4.36E+00 | 0.00E+00 | 8.90E-02 | 1.86E+00 | 0.00E+00 | 1.37E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 3.95E-02 | 0.00E+00 | 9.72E-01 | 0.00E+00 | 1.65E-01 | 4.15E-01 | 0.00E+00 | 3.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 1.29E-02 | 0.00E+00 | 4.70E-01 | 0.00E+00 | 4.13E-01 | 2.01E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.60E-03 | 0.00E+00 | 8.15E-01 | 0.00E+00 | 4.33E-03 | 3.48E-01 | 0.00E+00 | 1.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.02E-03 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.37E-03 | 4.28E-02 | 0.00E+00 | 8.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 3.66E-03 | 0.00E+00 | 7.80E-01 | 0.00E+00 | 4.36E-03 | 3.33E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-181**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.80E-02 | 0.00E+00 | 4.23E-05 | 1.64E-01 | 3.59E-01 | 5.23E-01 | 5.23E-01 | 4.67E-01 | 1.40E+00 | 4E-01 | 1E-01 | 8E-01 | 3E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.47E+00 | 0.00E+00 | 3.27E-02 | 6.94E+00 | 8.87E+00 | 1.58E+01 | 1.58E+01 | 2.08E+01 | 4.17E+01 | 3E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.90E-01 | 0.00E+00 | 4.86E-03 | 2.18E+00 | 1.83E+00 | 4.01E+00 | 4.01E+00 | 2.66E+00 | 2.80E+00 | 8E-01 | 8E-01 | 7E-01 | 7E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.57E-01 | 0.00E+00 | 3.29E-03 | 2.71E+00 | 1.32E+00 | 4.03E+00 | 4.03E+00 | 7.61E+00 | 7.80E+00 | 4E-01 | 3E-01 | 2E-01 | 2E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.02E-01 | 0.00E+00 | 1.82E-02 | 1.39E+00 | 1.40E+00 | 2.79E+00 | 2.81E+00 | 1.63E+00 | 3.26E+00 | 9E-01 | 4E-01 | 9E-01 | 4E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.20E-02 | 0.00E+00 | 1.16E-04 | 1.09E-01 | 1.59E-01 | 2.68E-01 | 2.68E-01 | 2.27E-02 | 6.80E-02 | **5E+00** | **2E+00** | **7E+00** | **2E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.10E-01 | 0.00E+00 | 4.62E-03 | 1.37E+00 | 1.03E+00 | 2.40E+00 | 2.41E+00 | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **3E+00** | **1E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.80E-02 | 0.00E+00 | 4.23E-05 | 1.64E-01 | 3.59E-01 | 5.23E-01 | 5.23E-01 | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **8E+00** | **3E+00** |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 2.84E-01 | 0.00E+00 | 3.75E-03 | 5.07E-03 | 8.93E-06 | 1.34E-01 | 2.89E-01 | 4.22E-01 | 4.22E-01 | 4.67E-01 | 1.40E+00 | 3E-01 | 1E-01 | 6E-01 | 2E-01 |
| | **Barium** | 0.00E+00 | 2.61E-01 | 0.00E+00 | 4.64E-01 | 4.30E-01 | 6.90E-03 | 1.96E+00 | 6.91E-01 | 2.65E+00 | 2.65E+00 | 2.08E+01 | 4.17E+01 | 9E-02 | 5E-02 | 3E-02 | 2E-02 |
| | **Chromium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 9.24E-02 | 1.11E-01 | 1.03E-03 | 5.14E-01 | 2.05E-01 | 7.19E-01 | 7.20E-01 | 2.66E+00 | 2.80E+00 | 2E-01 | 2E-01 | 8E-02 | 7E-02 |
| | **Cobalt** | 0.00E+00 | 2.35E-01 | 0.00E+00 | 4.77E-02 | 3.94E-02 | 6.95E-04 | 1.14E+00 | 2.74E-01 | 1.41E+00 | 1.41E+00 | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 4E-02 | 4E-02 |
| | **Lead** | 0.00E+00 | 2.12E-02 | 0.00E+00 | 1.07E-01 | 1.04E-01 | 3.84E-03 | 2.68E-01 | 1.26E-01 | 3.93E-01 | 3.97E-01 | 1.63E+00 | 3.26E+00 | 2E-01 | 8E-02 | 8E-02 | 4E-02 |
| | **Mercury** | 0.00E+00 | 1.19E-02 | 0.00E+00 | 4.29E-03 | 4.89E-03 | 2.45E-05 | 1.33E-02 | 1.68E-02 | 3.01E-02 | 3.01E-02 | 2.27E-02 | 6.80E-02 | 6E-01 | 2E-01 | 7E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.08E-01 | 8.61E-02 | 9.75E-04 | 5.44E-01 | 1.80E-01 | 7.24E-01 | 7.25E-01 | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 5E-01 | 3E-01 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 2.84E-01 | 0.00E+00 | 3.75E-03 | 5.07E-03 | 8.93E-06 | 1.34E-01 | 2.89E-01 | 4.22E-01 | 4.22E-01 | 4.33E-02 | 1.30E-01 | **3E+00** | 1E+00 | **7E+00** | **2E+00** |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 1.46E-02 | 1.95E-03 | 2.07E-03 | 0.00E+00 | 1.30E-05 | 2.90E-02 | 3.35E-02 | 6.25E-02 | 6.25E-02 | 2.30E-01 | 6.80E-01 | 1E-01 | 4E-02 | 1E-01 | 5E-02 |
| | **Barium** | 0.00E+00 | 1.34E-02 | 8.90E-02 | 2.56E-01 | 0.00E+00 | 1.00E-02 | 1.79E+00 | 1.98E+00 | 3.77E+00 | 3.78E+00 | 5.18E+01 | 1.21E+02 | 3E-02 | 1E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 0.00E+00 | 4.83E-03 | 2.16E-02 | 5.10E-02 | 0.00E+00 | 1.49E-03 | 2.00E-01 | 3.54E-02 | 2.36E-01 | 2.37E-01 | 2.40E+00 | 2.82E+00 | 8E-02 | 7E-02 | 1E-02 | 1E-02 |
| | **Cobalt** | 0.00E+00 | 1.21E-02 | 2.71E-03 | 2.64E-02 | 0.00E+00 | 1.01E-03 | 1.53E-01 | 8.49E-02 | 2.38E-01 | 2.39E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 2E-02 | 1E-02 | 8E-03 |
| | **Lead** | 0.00E+00 | 1.09E-03 | 7.24E-03 | 5.93E-02 | 0.00E+00 | 5.59E-03 | 1.47E-01 | 1.90E-02 | 1.66E-01 | 1.72E-01 | 4.70E+00 | 8.90E+00 | 3E-02 | 2E-02 | 4E-03 | 2E-03 |
| | **Mercury** | 0.00E+00 | 6.11E-04 | 4.76E-04 | 2.37E-03 | 0.00E+00 | 3.57E-05 | 1.35E-02 | 2.10E-03 | 1.56E-02 | 1.57E-02 | 7.50E-02 | 1.50E-01 | 2E-01 | 9E-02 | 3E-02 | 1E-02 |
| | **Vanadium** | 0.00E+00 | 4.83E-03 | 2.74E-03 | 5.98E-02 | 0.00E+00 | 1.42E-03 | 1.51E-01 | 2.04E-02 | 1.71E-01 | 1.73E-01 | 4.16E+00 | 8.31E+00 | 4E-02 | 2E-02 | 5E-03 | 2E-03 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 3.48E-02 | 3.10E-03 | 3.15E-03 | 4.26E-03 | 2.35E-05 | 2.77E-01 | 4.22E-02 | 3.19E-01 | 3.19E-01 | 2.30E-01 | 6.80E-01 | **1E+00** | 4E-01 | 2E-01 | 6E-02 |
| | **Barium** | 0.00E+00 | 3.20E-02 | 1.41E-01 | 3.90E-01 | 3.61E-01 | 1.82E-02 | 8.75E+00 | 5.35E-01 | 9.29E+00 | 9.31E+00 | 5.18E+01 | 1.21E+02 | 2E-01 | 7E-02 | 1E-02 | 4E-03 |
| | **Chromium** | 0.00E+00 | 1.15E-02 | 3.43E-02 | 7.75E-02 | 9.30E-02 | 2.70E-03 | 1.71E+00 | 1.39E-01 | 1.85E+00 | 1.85E+00 | 2.40E+00 | 2.82E+00 | 7E-01 | 6E-01 | 6E-02 | 5E-02 |
| | **Cobalt** | 0.00E+00 | 2.88E-02 | 4.30E-03 | 4.01E-02 | 3.31E-02 | 1.83E-03 | 1.24E+00 | 6.62E-02 | 1.30E+00 | 1.30E+00 | 7.33E+00 | 1.00E+01 | 2E-01 | 1E-01 | 9E-03 | 7E-03 |
| | **Lead** | 0.00E+00 | 2.60E-03 | 1.15E-02 | 9.02E-02 | 8.77E-02 | 1.01E-02 | 1.27E+00 | 1.02E-01 | 1.38E+00 | 1.39E+00 | 4.70E+00 | 8.90E+00 | 3E-01 | 1E-01 | 2E-02 | 1E-02 |
| | **Mercury** | 0.00E+00 | 1.46E-03 | 7.55E-04 | 3.60E-03 | 4.10E-03 | 6.45E-05 | 1.50E-01 | 6.31E-03 | 1.56E-01 | 1.56E-01 | 7.50E-02 | 1.50E-01 | **2E+00** | 1E+00 | 8E-02 | 4E-02 |
| | **Vanadium** | 0.00E+00 | 1.15E-02 | 4.35E-03 | 9.10E-02 | 7.23E-02 | 2.57E-03 | 1.25E+00 | 8.81E-02 | 1.34E+00 | 1.34E+00 | 4.16E+00 | 8.31E+00 | 3E-01 | 2E-01 | 2E-02 | 1E-02 |

**Table E3-181**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| | **Chromium** | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Cobalt** | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Mercury** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Vanadium** | **7E+00** | **3E+00** | **7E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Hawk - mid** | **tPCB-med** | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Barium** | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Vanadium** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| **Raccoon - 1** | **tPCB** | 3E-01 | 9E-02 | 3E-01 | 9E-02 |
| | **Barium** | 7E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Barium** | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Vanadium** | 3E-01 | 2E-01 | 3E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-182**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**LAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.04E+02** | **9.42E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.96E+01** | **2.43E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.81E+00** | **8.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.54E+01** | **2.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.07E+01** | **1.89E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.04E+02** | **9.42E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.96E+01** | **2.43E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.81E+00** | **8.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.54E+01** | **2.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.07E+01** | **1.89E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.04E+02** | **9.42E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.96E+01** | **2.43E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.81E+00** | **8.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.54E+01** | **2.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.07E+01** | **1.89E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.04E+02** | **9.42E+01** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.96E+01** | **2.43E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.81E+00** | **8.63E+00** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.54E+01** | **2.29E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.07E+01** | **1.89E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Barium** | **1.04E+02** | **9.42E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Chromium** | **1.96E+01** | **2.43E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Cobalt** | **9.81E+00** | **8.63E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Lead** | **2.54E+01** | **2.29E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| | **Vanadium** | **2.07E+01** | **1.89E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 |
| **Raccoon - 2** | **tPCB** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.04E+02** | **9.42E+01** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.96E+01** | **2.43E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.81E+00** | **8.63E+00** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.54E+01** | **2.29E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.07E+01** | **1.89E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-182**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**LAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Barium** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Lead** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Barium** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Chromium** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Cobalt** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Lead** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Mercury** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |
| | **Vanadium** | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table E3-182**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**LAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | |
|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **GBH - mid** | **tPCB-med** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |
| **GBH - high** | **tPCB-high** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Mink - 1** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |
| **Mink - 2** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |
| **Raccoon - 1** | **tPCB** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |
| **Raccoon - 2** | **tPCB** | 2.58E-01 | tissue, ww (ng/g) = 0.1433*(soil, ng/g dw) + 34.546 | 5.76E-01 | tissue, dw = 4.7017*(soil, dw) - 0.5528 |
| | **Barium** | 1.47E+00 | 8.70E-01 | 9.13E-01 | 8.18E-01 |
| | **Chromium** | 2.82E-01 | 8.99E-02 | 3.53E-01 | 9.17E-01 |
| | **Cobalt** | Measured Tissue = 34.72 mg/kg | 5.69E-02 | 1.24E+00 | 8.58E-01 |
| | **Lead** | 5.07E-01 | 3.14E-03 | 7.97E-01 | 6.62E-01 |
| | **Mercury** | 8.01E-02 | 5.00E-02 | ((log tissue, ww) = 0.3083*(log sediment, dw) - 1.2447)/0.18 | tissue, dw = 1.3029*(soil, dw) + 0.69 |
| | **Vanadium** | 3.29E-01 | 7.10E-03 | 4.37E-01 | 6.27E-01 |

**Table E3-182**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**LAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Aquatic Emergent Insects | Terrestrial Insects | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.33E-01 | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **GBH - mid** | **tPCB-med** | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.33E-01 | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **GBH - high** | **tPCB-high** | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **Mink - 1** | **tPCB-mink** | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.33E-01 | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Mink - 2** | **tPCB-mink** | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.33E-01 | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 1** | **tPCB** | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.33E-01 | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |
| **Raccoon - 2** | **tPCB** | 5.63E-01 | 1.70E-01 | log (tissue, dw) = 0.5446*(log soil, dw) + 0.3164 | ((log tissue, ww) = 0.6272*(log sediment Aroclors, dw) +1.0224)/0.19 | 7.24E+00 |
| | **Barium** | 5.33E-02 | 3.92E-02 | 2.11E-01 | 9.13E-01 | 7.98E-01 |
| | **Chromium** | 1.10E+00 | Measured Tissue = 7.38 mg/kg | 2.99E-01 | 3.53E-01 | 1.27E+00 |
| | **Cobalt** | 7.42E-02 | Measured Tissue = 18.45 mg/kg | Measured Tissue = 15.625 mg/kg | 1.24E+00 | 1.69E+00 |
| | **Lead** | 2.06E-02 | 8.24E-03 | 9.77E-02 | 7.97E-01 | 1.04E+00 |
| | **Mercury** | 1.33E-01 | 6.51E-02 | 1.39E-01 | 1.00E+00 | 8.26E-01 |
| | **Vanadium** | 8.00E-02 | 8.21E-03 | Measured Tissue = 6.25 mg/kg | 4.37E-01 | 5.54E-01 |

**Table E3-182**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**LAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Bioaccumulation Factors | | | | |
|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Forage Fish | Reptiles | Amphibians |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 5.84E-01 | 2.24E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 5.84E-01 | 2.24E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 |
| **GBH - mid** | **tPCB-med** | 5.84E-01 | 2.24E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |
| **GBH - high** | **tPCB-high** | 5.84E-01 | 2.24E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 |
| **Mink - 1** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |
| **Mink - 2** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 5.84E-01 | 2.24E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |
| **Raccoon - 1** | **tPCB** | 5.84E-01 | 2.24E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |
| **Raccoon - 2** | **tPCB** | 5.84E-01 | 2.24E+01 | 1.93E+01 | 2.45E+01 | 2.18E+00 |
| | **Barium** | 5.68E+00 | 2.96E-01 | 9.39E-01 | 2.65E-01 | 1.17E+00 |
| | **Chromium** | 7.66E-02 | 1.75E-01 | 5.92E-01 | Measured Tissue = 9.01 mg/kg | 1.11E+00 |
| | **Cobalt** | Measured Tissue = 20 mg/kg | 7.42E-02 | Measured Tissue = 19.31 mg/kg | Measured Tissue = 22.53 mg/kg | 3.90E-01 |
| | **Lead** | 1.29E-01 | 2.56E-02 | 2.18E-02 | 8.90E-02 | 3.93E-01 |
| | **Mercury** | log (tissue, dw) = 0.2185*log (sediment, dw) - 0.7272 | 5.54E-01 | 4.58E-01 | (log (tissue, ww) = 0.2167*(log sediment, dw) - 0.5347)/0.26 | log (tissue, dw) = 0.4577*log (sediment, dw) - 0.2419 |
| | **Vanadium** | 1.87E-01 | 4.87E-02 | 1.61E-01 | Measured Tissue = 9.01 mg/kg | 1.80E-01 |

**Table E3-182**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**LAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.69E-02 | 7.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 7.65E+00 | 7.60E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 7.62E-01 | 1.60E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 9.56E-01 | 7.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 1.62E+00 | 1.50E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.87E-02 | 5.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 7.33E-01 | 1.15E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.69E-02 | 7.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - high** | **tPCB-high** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.41E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.41E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 6.87E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.38E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 5.74E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 4.24E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.07E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.95E-02 | 0.00E+00 | 2.16E-02 | 0.00E+00 | 8.34E-04 | 2.16E-02 | 0.00E+00 |
| | **Barium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 2.29E-01 | 0.00E+00 | 1.10E-02 | 2.29E-01 | 0.00E+00 |
| | **Chromium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.08E-02 | 0.00E+00 | 4.83E-02 | 0.00E+00 | 1.98E-02 | 4.83E-02 | 0.00E+00 |
| | **Cobalt** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 6.59E-03 | 0.00E+00 | 2.26E-02 | 0.00E+00 | 4.95E-02 | 2.26E-02 | 0.00E+00 |
| | **Lead** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 9.43E-04 | 0.00E+00 | 4.52E-02 | 0.00E+00 | 5.62E-04 | 4.52E-02 | 0.00E+00 |
| | **Mercury** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.28E-03 | 0.00E+00 | 1.54E-02 | 0.00E+00 | 6.76E-04 | 1.54E-02 | 0.00E+00 |
| | **Vanadium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.73E-03 | 0.00E+00 | 3.47E-02 | 0.00E+00 | 4.55E-04 | 3.47E-02 | 0.00E+00 |
| **Raccoon - 2** | **tPCB** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.30E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 6.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 5.29E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.91E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 2.83E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-182**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**LAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-02 | 1.78E-02 | 2.66E-05 | 7.46E-01 | 7.47E-02 | 8.20E-01 | 8.20E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E+00 | 1.51E+00 | 2.06E-02 | 9.27E+00 | 9.16E+00 | 1.84E+01 | 1.85E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 3.89E-01 | 3.06E-03 | 1.92E+00 | 1.15E+00 | 3.07E+00 | 3.07E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-01 | 1.38E-01 | 2.07E-03 | 9.07E-01 | 1.09E+00 | 2.00E+00 | 2.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.08E-01 | 3.66E-01 | 1.14E-02 | 1.91E+00 | 1.99E+00 | 3.90E+00 | 3.91E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.20E-02 | 1.71E-02 | 7.31E-05 | 5.72E-01 | 4.59E-02 | 6.18E-01 | 6.18E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.31E-01 | 3.02E-01 | 2.91E-03 | 1.48E+00 | 1.04E+00 | 2.52E+00 | 2.52E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-02 | 1.78E-02 | 2.66E-05 | 7.46E-01 | 7.47E-02 | 8.20E-01 | 8.20E-01 |
| **GBH - mid** | **tPCB-med** | 5.07E-03 | 0.00E+00 | 0.00E+00 | 1.14E-03 | 4.12E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.71E-02 | 0.00E+00 | 3.91E-03 | 7.05E-06 | 5.07E-03 | 4.14E+00 | 4.14E+00 | 4.14E+00 |
| | **Barium** | 3.87E-02 | 0.00E+00 | 0.00E+00 | 9.42E-01 | 4.61E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.79E-01 | 0.00E+00 | 3.32E-01 | 5.45E-03 | 3.87E-02 | 6.66E+00 | 6.70E+00 | 6.70E+00 |
| | **Chromium** | 1.03E-02 | 0.00E+00 | 0.00E+00 | 3.27E-03 | 7.01E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-01 | 0.00E+00 | 8.54E-02 | 8.10E-04 | 1.03E-02 | 9.79E-01 | 9.89E-01 | 9.90E-01 |
| | **Cobalt** | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 1.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.37E-02 | 0.00E+00 | 3.04E-02 | 5.49E-04 | 2.75E-02 | 1.95E-01 | 2.23E-01 | 2.23E-01 |
| | **Lead** | 4.38E-03 | 0.00E+00 | 0.00E+00 | 5.21E-03 | 9.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.33E-02 | 0.00E+00 | 8.05E-02 | 3.03E-03 | 4.38E-03 | 2.46E-01 | 2.50E-01 | 2.53E-01 |
| | **Mercury** | 9.44E-04 | 0.00E+00 | 0.00E+00 | 3.35E-04 | 9.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.16E-03 | 0.00E+00 | 3.77E-03 | 1.94E-05 | 9.44E-04 | 1.06E-01 | 1.07E-01 | 1.07E-01 |
| | **Vanadium** | 1.10E-02 | 0.00E+00 | 0.00E+00 | 6.22E-03 | 1.52E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.40E-02 | 0.00E+00 | 6.64E-02 | 7.70E-04 | 1.10E-02 | 2.49E-01 | 2.60E-01 | 2.60E-01 |
| **GBH - high** | **tPCB-high** | 5.07E-03 | 0.00E+00 | 0.00E+00 | 1.14E-03 | 4.12E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.71E-02 | 0.00E+00 | 3.91E-03 | 7.05E-06 | 5.07E-03 | 4.14E+00 | 4.14E+00 | 4.14E+00 |
| **Mink - 1** | **tPCB-mink** | 6.27E-02 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 0.00E+00 | 0.00E+00 | 2.23E-01 | 0.00E+00 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 6.27E-02 | 2.57E-01 | 3.19E-01 | 3.19E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 6.27E-02 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 0.00E+00 | 0.00E+00 | 2.23E-01 | 0.00E+00 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 6.27E-02 | 2.57E-01 | 3.19E-01 | 3.19E-01 |
| | **Barium** | 4.78E-01 | 0.00E+00 | 0.00E+00 | 2.38E+00 | 0.00E+00 | 0.00E+00 | 9.19E-01 | 0.00E+00 | 1.42E+00 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 4.78E-01 | 4.72E+00 | 5.20E+00 | 5.21E+00 |
| | **Chromium** | 1.28E-01 | 0.00E+00 | 0.00E+00 | 8.28E-03 | 0.00E+00 | 0.00E+00 | 1.49E-01 | 0.00E+00 | 3.45E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.28E-01 | 5.02E-01 | 6.30E-01 | 6.32E-01 |
| | **Cobalt** | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 2.01E-01 | 0.00E+00 | 4.33E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 3.33E-01 | 6.73E-01 | 6.74E-01 |
| | **Lead** | 5.41E-02 | 0.00E+00 | 0.00E+00 | 1.32E-02 | 0.00E+00 | 0.00E+00 | 5.17E-03 | 0.00E+00 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 5.41E-02 | 1.34E-01 | 1.88E-01 | 1.95E-01 |
| | **Mercury** | 1.17E-02 | 0.00E+00 | 0.00E+00 | 8.47E-04 | 0.00E+00 | 0.00E+00 | 5.09E-03 | 0.00E+00 | 7.60E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 1.17E-02 | 1.35E-02 | 2.52E-02 | 2.53E-02 |
| | **Vanadium** | 1.36E-01 | 0.00E+00 | 0.00E+00 | 1.57E-02 | 0.00E+00 | 0.00E+00 | 3.14E-02 | 0.00E+00 | 4.37E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 9.09E-02 | 2.27E-01 | 2.29E-01 |
| **Mink - 2** | **tPCB-mink** | 8.54E-03 | 0.00E+00 | 0.00E+00 | 1.28E-03 | 0.00E+00 | 0.00E+00 | 9.12E-01 | 0.00E+00 | 3.60E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 8.54E-03 | 9.17E-01 | 9.25E-01 | 9.25E-01 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 8.54E-03 | 0.00E+00 | 0.00E+00 | 1.28E-03 | 0.00E+00 | 0.00E+00 | 9.12E-01 | 0.00E+00 | 3.60E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 8.54E-03 | 9.17E-01 | 9.25E-01 | 9.25E-01 |
| | **Barium** | 6.52E-02 | 0.00E+00 | 0.00E+00 | 1.06E+00 | 0.00E+00 | 0.00E+00 | 3.76E+00 | 0.00E+00 | 1.64E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 6.52E-02 | 5.05E+00 | 5.12E+00 | 5.13E+00 |
| | **Chromium** | 1.74E-02 | 0.00E+00 | 0.00E+00 | 3.68E-03 | 0.00E+00 | 0.00E+00 | 6.11E-01 | 0.00E+00 | 3.98E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.74E-02 | 6.58E-01 | 6.75E-01 | 6.77E-01 |
| | **Cobalt** | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 8.21E-01 | 0.00E+00 | 4.99E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.83E-01 | 9.30E-01 | 9.31E-01 |
| | **Lead** | 7.38E-03 | 0.00E+00 | 0.00E+00 | 5.86E-03 | 0.00E+00 | 0.00E+00 | 2.12E-02 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 7.38E-03 | 4.61E-02 | 5.35E-02 | 6.02E-02 |
| | **Mercury** | 1.59E-03 | 0.00E+00 | 0.00E+00 | 3.76E-04 | 0.00E+00 | 0.00E+00 | 2.09E-02 | 0.00E+00 | 8.77E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 1.59E-03 | 2.22E-02 | 2.37E-02 | 2.38E-02 |
| | **Vanadium** | 1.85E-02 | 0.00E+00 | 0.00E+00 | 6.99E-03 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 5.05E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 1.44E-01 | 1.62E-01 | 1.64E-01 |
| **Raccoon - 1** | **tPCB** | 4.09E-03 | 0.00E+00 | 0.00E+00 | 2.26E-03 | 1.47E-02 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 1.95E-03 | 4.61E-03 | 0.00E+00 | 1.30E-05 | 7.22E-02 | 3.35E-02 | 1.06E-01 | 1.06E-01 |
| | **Barium** | 3.12E-02 | 0.00E+00 | 0.00E+00 | 1.87E+00 | 1.64E-02 | 0.00E+00 | 0.00E+00 | 1.34E-02 | 8.90E-02 | 2.63E-01 | 0.00E+00 | 1.00E-02 | 1.83E+00 | 1.98E+00 | 3.82E+00 | 3.83E+00 |
| | **Chromium** | 8.35E-03 | 0.00E+00 | 0.00E+00 | 6.48E-03 | 2.50E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 2.16E-02 | 4.95E-02 | 0.00E+00 | 1.49E-03 | 1.95E-01 | 3.54E-02 | 2.31E-01 | 2.32E-01 |
| | **Cobalt** | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 3.78E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 2.71E-03 | 2.47E-02 | 0.00E+00 | 1.01E-03 | 1.48E-01 | 8.49E-02 | 2.33E-01 | 2.34E-01 |
| | **Lead** | 3.53E-03 | 0.00E+00 | 0.00E+00 | 1.03E-02 | 3.46E-04 | 0.00E+00 | 0.00E+00 | 1.09E-03 | 7.24E-03 | 6.42E-02 | 0.00E+00 | 5.59E-03 | 1.59E-01 | 1.90E-02 | 1.79E-01 | 1.84E-01 |
| | **Mercury** | 7.62E-04 | 0.00E+00 | 0.00E+00 | 6.63E-04 | 3.50E-04 | 0.00E+00 | 0.00E+00 | 6.11E-04 | 4.76E-04 | 9.76E-03 | 0.00E+00 | 3.57E-05 | 4.42E-02 | 2.10E-03 | 4.63E-02 | 4.64E-02 |
| | **Vanadium** | 8.89E-03 | 0.00E+00 | 0.00E+00 | 1.23E-02 | 5.42E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 2.74E-03 | 5.21E-02 | 0.00E+00 | 1.42E-03 | 1.33E-01 | 2.04E-02 | 1.53E-01 | 1.55E-01 |
| **Raccoon - 2** | **tPCB** | 1.47E-02 | 4.76E-02 | 2.80E-02 | 2.26E-03 | 1.53E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.81E-03 | 0.00E+00 | 2.80E-03 | 1.30E-05 | 1.47E-02 | 2.43E-01 | 2.58E-01 | 2.58E-01 |
| | **Barium** | 1.12E-01 | 6.92E-02 | 2.62E-01 | 1.87E+00 | 1.72E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.56E-01 | 0.00E+00 | 2.38E-01 | 1.00E-02 | 1.12E-01 | 3.60E+00 | 3.71E+00 | 3.72E+00 |
| | **Chromium** | 2.99E-02 | 6.89E-03 | 1.07E-01 | 6.48E-03 | 2.61E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.63E-02 | 0.00E+00 | 6.12E-02 | 1.49E-03 | 2.99E-02 | 3.26E-01 | 3.56E-01 | 3.57E-01 |
| | **Cobalt** | 7.96E-02 | 8.64E-03 | 5.08E-02 | 6.97E-02 | 3.95E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 0.00E+00 | 2.18E-02 | 1.01E-03 | 7.96E-02 | 3.24E-01 | 4.04E-01 | 4.05E-01 |
| | **Lead** | 1.27E-02 | 1.47E-02 | 8.29E-02 | 1.03E-02 | 3.61E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 0.00E+00 | 5.77E-02 | 5.59E-03 | 1.27E-02 | 2.51E-01 | 2.64E-01 | 2.69E-01 |
| | **Mercury** | 2.73E-03 | 8.61E-04 | 3.08E-03 | 6.63E-04 | 3.66E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-03 | 0.00E+00 | 2.70E-03 | 3.57E-05 | 2.73E-03 | 1.33E-02 | 1.60E-02 | 1.60E-02 |
| | **Vanadium** | 3.19E-02 | 6.63E-03 | 3.64E-02 | 1.23E-02 | 5.67E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 4.75E-02 | 1.42E-03 | 3.19E-02 | 1.48E-01 | 1.80E-01 | 1.81E-01 |

**Table E3-182**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**LAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **2E+00** | 5E-01 | 2E-01 | 5E-02 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Barium** | 2.08E+01 | 4.17E+01 | 4E-01 | 2E-01 | 4E-01 | 2E-01 | 9E-01 | 4E-01 | 9E-01 | 4E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 7E-01 | 7E-01 | 4E-01 | 4E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **1E+00** | 6E-01 | **1E+00** | 6E-01 | **2E+00** | **1E+00** | **2E+00** | **1E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **3E+01** | **8E+00** | **2E+00** | 7E-01 | **3E+01** | **9E+00** | **3E+01** | **9E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **4E+00** | **2E+00** | **3E+00** | **1E+00** | **7E+00** | **4E+00** | **7E+00** | **4E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **2E+01** | **6E+00** | **2E+00** | 6E-01 | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| **GBH - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 1E-02 | 4E-03 | **9E+00** | **3E+00** | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 2E-03 | 9E-04 | 3E-01 | 2E-01 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 4E-03 | 4E-03 | 4E-01 | 3E-01 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 3E-02 | 3E-02 | 3E-02 | 3E-02 | 3E-02 | 3E-02 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 3E-03 | 1E-03 | 2E-01 | 8E-02 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 4E-02 | 1E-02 | **5E+00** | **2E+00** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 7E-01 | 4E-01 | 8E-01 | 4E-01 | 8E-01 | 4E-01 |
| **GBH - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | 1E-01 | 4E-02 | **1E+02** | **3E+01** | **1E+02** | **3E+01** | **1E+02** | **3E+01** |
| **Mink - 1** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | **1E+00** | 6E-01 | **5E+00** | **3E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | -- | **1E+00** | -- | **5E+00** | -- | **6E+00** | -- | **6E+00** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 9E-03 | 4E-03 | 9E-02 | 4E-02 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 5E-02 | 5E-02 | 2E-01 | 2E-01 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 5E-02 | 3E-02 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 1E-02 | 6E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 2E-01 | 8E-02 | 2E-01 | 9E-02 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 2E-02 | 1E-02 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Mink - 2** | **tPCB-mink** | 5.00E-02 | 1.00E-01 | 2E-01 | 9E-02 | **2E+01** | **9E+00** | **2E+01** | **9E+00** | **2E+01** | **9E+00** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | na | 5.00E-02 | -- | 2E-01 | -- | **2E+01** | -- | **2E+01** | -- | **2E+01** |
| | **Barium** | 5.18E+01 | 1.21E+02 | 1E-03 | 5E-04 | 1E-01 | 4E-02 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 7E-03 | 6E-03 | 3E-01 | 2E-01 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-03 | 8E-04 | 1E-02 | 5E-03 | 1E-02 | 6E-03 | 1E-02 | 7E-03 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 2E-02 | 1E-02 | 3E-01 | 1E-01 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 3E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | 1E-01 | 5E-02 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 7E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 8E-02 | 7E-02 | 1E-02 | 1E-02 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-02 | 2E-02 | 4E-03 | 2E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 6E-01 | 3E-01 | 3E-02 | 1E-02 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 5E-03 | 2E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Raccoon - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | 6E-02 | 2E-02 | **1E+00** | 4E-01 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 2E-03 | 9E-04 | 7E-02 | 3E-02 | 7E-02 | 3E-02 | 7E-02 | 3E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-02 | 1E-02 | 1E-01 | 1E-01 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 6E-02 | 4E-02 | 6E-02 | 4E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 3E-03 | 1E-03 | 5E-02 | 3E-02 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 4E-02 | 2E-02 | 2E-01 | 9E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-183**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow - mid** | **tPCB-med** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **9.42E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.43E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.07E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.89E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Tree Swallow - high** | **tPCB-high** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Barium** | **9.42E+01** | **1.21E-01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Chromium** | **2.43E+01** | **1.80E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Cobalt** | **8.63E+00** | **1.22E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Lead** | **2.29E+01** | **6.73E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Mercury** | **1.07E+00** | **4.30E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| | **Vanadium** | **1.89E+01** | **1.71E-02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Barium** | **9.42E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Chromium** | **2.43E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Cobalt** | **8.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Lead** | **2.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Mercury** | **1.07E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| | **Vanadium** | **1.89E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2 - mid** | **tPCB-med** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Barium** | **9.42E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Chromium** | **2.43E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Cobalt** | **8.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Lead** | **2.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Mercury** | **1.07E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| | **Vanadium** | **1.89E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey - mid** | **tPCB-med** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **9.42E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.43E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.07E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.89E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Osprey - high** | **tPCB-high** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **tPCB** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **9.42E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.43E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.07E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.89E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **tPCB-mink** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter (Alternative TRV)** | **tPCB-mink** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **9.42E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **2.43E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **8.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **1.07E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **1.89E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table E3-183**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate | Water Ingestion Rate |
| **Tree Swallow - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Tree Swallow - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.10E-02 | 2.40E-01 | 0.00E+00 | 2.10E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 4.30E-02 | 1.78E-01 | 3.20E-02 | 1.70E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.48E-01 | 1.58E-01 | 3.15E-03 | 1.10E-01 |
| **Osprey - mid** | **tPCB-med** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Osprey - high** | **tPCB-high** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.60E+00 | 7.07E-02 | 0.00E+00 | 5.10E-02 |
| **Bat** | **tPCB** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 | 1.60E-01 |
| **Otter** | **tPCB-mink** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 4.27E-01 | 1.09E+00 | 1.11E+00 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Barium** | 7.01E+01 | 6.00E+01 | 1.14E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Chromium** | 3.13E+00 | 3.87E+00 | 1.34E+01 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Cobalt** | 3.47E+01 | 4.44E+00 | 2.84E-01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Lead** | 7.05E+00 | 6.00E+00 | 6.75E-01 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Mercury** | 6.99E-02 | 4.76E-01 | 2.06E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |
| | **Vanadium** | 1.94E+00 | 2.56E+00 | 5.83E-01 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 | 8.10E-02 |

**Table E3-183**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | | Total Dose (mg/kg-day) | | Toxicity Reference Values (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Water | Sediment + Prey | Sediment + Prey + Water | NOAEL TRV | LOAEL TRV |
| **Tree Swallow - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 2.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 2.66E-01 | 2.66E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 2.72E+00 | 2.75E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 3.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-03 | 3.21E+00 | 3.21E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 6.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-03 | 6.82E-02 | 7.07E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 1.62E-01 | 1.76E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 4.94E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-05 | 4.94E-02 | 4.95E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 1.40E-01 | 1.44E-01 | 3.44E-01 | 7.00E-01 |
| **Tree Swallow - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 2.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-05 | 2.66E-01 | 2.66E-01 | 4.33E-02 | 1.30E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 0.00E+00 | 9.69E-02 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.56E-02 | 2.66E-05 | 2.29E-01 | 2.29E-01 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 5.34E+00 | 0.00E+00 | 5.34E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.02E+00 | 2.06E-02 | 1.37E+01 | 1.37E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 3.44E-01 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.77E-01 | 3.06E-03 | 1.47E+00 | 1.47E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 3.96E-01 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.76E-01 | 2.07E-03 | 1.07E+00 | 1.07E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 5.34E-01 | 0.00E+00 | 5.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.33E-01 | 1.14E-02 | 1.80E+00 | 1.81E+00 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 4.24E-02 | 0.00E+00 | 4.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-02 | 7.31E-05 | 1.19E-01 | 1.19E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 2.28E-01 | 0.00E+00 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.04E-01 | 2.91E-03 | 1.06E+00 | 1.06E+00 | 3.44E-01 | 7.00E-01 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | 0.00E+00 | 9.69E-02 | 0.00E+00 | 9.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.56E-02 | 2.66E-05 | 2.29E-01 | 2.29E-01 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.28E+00 | 0.00E+00 | 0.00E+00 | 3.50E-03 | 1.72E-05 | 5.28E+00 | 5.28E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E+00 | 0.00E+00 | 0.00E+00 | 2.97E-01 | 1.33E-02 | 5.49E+00 | 5.50E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 | 1.98E-03 | 1.83E+00 | 1.83E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+00 | 0.00E+00 | 0.00E+00 | 2.72E-02 | 1.34E-03 | 3.07E+00 | 3.07E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-01 | 0.00E+00 | 0.00E+00 | 7.21E-02 | 7.40E-03 | 3.98E-01 | 4.06E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 3.37E-03 | 4.73E-05 | 1.05E-01 | 1.05E-01 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 0.00E+00 | 5.94E-02 | 1.88E-03 | 2.47E-01 | 2.49E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.28E+00 | 0.00E+00 | 0.00E+00 | 3.50E-03 | 1.72E-05 | 5.28E+00 | 5.28E+00 | 4.33E-02 | 1.30E-01 |
| **Kingfisher - 2 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.13E-02 | 0.00E+00 | 0.00E+00 | 4.01E+00 | 0.00E+00 | 4.28E-02 | 3.50E-03 | 1.72E-05 | 4.09E+00 | 4.09E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E+00 | 0.00E+00 | 0.00E+00 | 3.95E+00 | 0.00E+00 | 3.47E-01 | 2.97E-01 | 1.33E-02 | 1.06E+01 | 1.06E+01 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.33E+00 | 0.00E+00 | 1.42E-01 | 7.65E-02 | 1.98E-03 | 1.59E+00 | 1.59E+00 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-01 | 0.00E+00 | 0.00E+00 | 2.31E+00 | 0.00E+00 | 1.23E-02 | 2.72E-02 | 1.34E-03 | 2.95E+00 | 2.95E+00 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-02 | 0.00E+00 | 0.00E+00 | 2.48E-01 | 0.00E+00 | 3.25E-02 | 7.21E-02 | 7.40E-03 | 4.51E-01 | 4.58E-01 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.01E-03 | 0.00E+00 | 0.00E+00 | 7.74E-02 | 0.00E+00 | 4.41E-03 | 3.37E-03 | 4.73E-05 | 9.22E-02 | 9.22E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 1.28E-02 | 5.94E-02 | 1.88E-03 | 2.56E-01 | 2.58E-01 | 3.44E-01 | 7.00E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.13E-02 | 0.00E+00 | 0.00E+00 | 4.01E+00 | 0.00E+00 | 4.28E-02 | 3.50E-03 | 1.72E-05 | 4.09E+00 | 4.09E+00 | 4.33E-02 | 1.30E-01 |
| **Osprey - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 3.73E+00 | 3.73E+00 | 4.67E-01 | 1.40E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 1.04E+00 | 1.05E+00 | 2.08E+01 | 4.17E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-04 | 3.22E-01 | 3.23E-01 | 2.66E+00 | 2.80E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-04 | 3.21E-02 | 3.28E-02 | 7.61E+00 | 7.80E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-03 | 3.86E-02 | 4.21E-02 | 1.63E+00 | 3.26E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.56E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-05 | 7.56E-02 | 7.56E-02 | 2.27E-02 | 6.80E-02 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-04 | 8.39E-02 | 8.48E-02 | 3.44E-01 | 7.00E-01 |
| **Osprey - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.99E-06 | 3.73E+00 | 3.73E+00 | 4.33E-02 | 1.30E-01 |
| **Bat** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-05 | 1.96E-01 | 1.96E-01 | 2.30E-01 | 6.80E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 2.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-02 | 2.01E+00 | 2.03E+00 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-03 | 2.37E+00 | 2.37E+00 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 5.03E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-03 | 5.03E-02 | 5.23E-02 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-02 | 1.20E-01 | 1.30E-01 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 3.65E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-05 | 3.65E-02 | 3.66E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 1.03E-01 | 1.06E-01 | 4.16E+00 | 8.31E+00 |
| **Otter** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.84E-01 | 7.81E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 2.02E+00 | 2.02E+00 | 5.00E-02 | 1.00E-01 |
| **Otter (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.84E-01 | 7.81E-01 | 3.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-05 | 2.02E+00 | 2.02E+00 | na | 5.00E-02 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-01 | 1.17E-01 | 3.45E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.80E-03 | 7.09E-01 | 7.19E-01 | 5.18E+01 | 1.21E+02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-02 | 1.46E-02 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-03 | 2.07E-01 | 2.08E-01 | 2.40E+00 | 2.82E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E-03 | 3.49E-03 | 2.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.88E-04 | 2.13E-01 | 2.14E-01 | 7.33E+00 | 1.00E+01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.15E-03 | 1.64E-03 | 2.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-03 | 3.24E-02 | 3.79E-02 | 4.70E+00 | 8.90E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-02 | 1.80E-02 | 6.76E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 4.27E-02 | 4.27E-02 | 7.50E-02 | 1.50E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-02 | 1.14E-03 | 1.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-03 | 3.34E-02 | 3.48E-02 | 4.16E+00 | 8.31E+00 |

**Table E3-183**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Hazard Quotients | | | |
|---|---|---|---|---|---|
| | | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Tree Swallow - mid** | **tPCB-med** | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 9E-03 | 9E-03 | 9E-03 | 9E-03 |
| | **Lead** | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| | **Mercury** | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Vanadium** | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| **Tree Swallow - high** | **tPCB-high** | **6E+00** | **2E+00** | **6E+00** | **2E+00** |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Barium** | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| | **Chromium** | 6E-01 | 5E-01 | 6E-01 | 5E-01 |
| | **Cobalt** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | **1E+00** | 6E-01 | **1E+00** | 6E-01 |
| | **Mercury** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | **3E+00** | **2E+00** | **3E+00** | **2E+00** |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| | **Barium** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Chromium** | 7E-01 | 7E-01 | 7E-01 | 7E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| | **Vanadium** | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| **Kingfisher - 1 - high** | **tPCB-high** | **1E+02** | **4E+01** | **1E+02** | **4E+01** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Barium** | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| | **Chromium** | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Cobalt** | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| **Kingfisher - 2 - high** | **tPCB-high** | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Osprey - mid** | **tPCB-med** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| | **Barium** | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| | **Chromium** | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Cobalt** | 4E-03 | 4E-03 | 4E-03 | 4E-03 |
| | **Lead** | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Osprey - high** | **tPCB-high** | **9E+01** | **3E+01** | **9E+01** | **3E+01** |
| **Bat** | **tPCB** | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Barium** | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 1E+00 | 8E-01 | 1E+00 | 8E-01 |
| | **Cobalt** | 7E-03 | 5E-03 | 7E-03 | 5E-03 |
| | **Lead** | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Vanadium** | 2E-02 | 1E-02 | 3E-02 | 1E-02 |
| **Otter** | **tPCB-mink** | **4E+01** | **2E+01** | **4E+01** | **2E+01** |
| **Otter (Alternative TRV)** | **tPCB-mink** | **--** | **4E+01** | **--** | **4E+01** |
| | **Barium** | 1E-02 | 6E-03 | 1E-02 | 6E-03 |
| | **Chromium** | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Cobalt** | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 7E-03 | 4E-03 | 8E-03 | 4E-03 |
| | **Mercury** | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Vanadium** | 8E-03 | 4E-03 | 8E-03 | 4E-03 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-184**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | Measured Tissue (mg/kg dry weight) | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Small Mammals | Body Weight (kg) |
| **Mourning Dove - mid** | **tPCB-med** | **8.21E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 | 1.20E-01 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 | 1.20E-01 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 1.20E-01 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 1.20E-01 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 1.20E-01 |
| **Mourning Dove - high** | **tPCB-high** | **8.21E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 | 1.20E-01 |
| **Blue Jay - mid** | **tPCB-med** | **8.21E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 | 8.70E-02 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 | 8.70E-02 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 8.70E-02 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 8.70E-02 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 8.70E-02 |
| **Blue Jay - high** | **tPCB-high** | **8.21E-01** | **1.57E-04** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 | 8.70E-02 |
| **Carolina Wren -1 - mid** | **tPCB-med** | **8.21E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 | 2.00E-02 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 | 2.00E-02 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 2.00E-02 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 2.00E-02 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 2.00E-02 |
| **Carolina Wren - 1 - high** | **tPCB-high** | **8.21E-01** | **1.57E-04** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 | 2.00E-02 |
| **Shrew - 1** | **tPCB** | **8.21E-01** | **1.57E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 | 1.70E-02 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 | 1.70E-02 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 1.70E-02 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 1.70E-02 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 1.70E-02 |
| **Deer** | **tPCB** | **8.21E-01** | **1.57E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 | 5.66E+01 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 | 5.66E+01 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 5.66E+01 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 5.66E+01 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 5.66E+01 |
| **Weasel** | **tPCB** | **8.21E-01** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 | 3.00E-01 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 | 3.00E-01 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 3.00E-01 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 3.00E-01 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 3.00E-01 |
| **Fox - 1** | **tPCB** | **8.21E-01** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 | 4.50E+00 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 | 4.50E+00 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 4.50E+00 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 4.50E+00 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 4.50E+00 |
| **Fox - 2** | **tPCB** | **8.21E-01** | **1.57E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 4.37E-01 | 9.60E-02 | 5.23E+00 | 1.54E+01 | 4.50E+00 |
| | **Mercury** | **9.38E-01** | **4.30E-04** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 5.98E-02 | 6.31E-02 | 2.39E+00 | 1.65E-01 | 4.50E+00 |
| | **Chromium** | **2.02E+01** | **1.80E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.40E+00 | 7.38E+00 | 1.94E+01 | 4.69E+00 | 4.50E+00 |
| | **Lead** | **2.35E+01** | **6.73E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.03E-01 | 2.45E-01 | 1.16E+02 | 5.31E+00 | 4.50E+00 |
| | **Vanadium** | **2.37E+01** | **1.71E-02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.22E-01 | 2.14E-01 | 9.41E+00 | 6.25E+00 | 4.50E+00 |

**Table E3-184**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | Total Dose (mg/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion Rate | Water Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Soil | Water | Soil + Prey | Soil + Prey + Water |
| **Mourning Dove - mid** | **tPCB-med** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-02 | 1.88E-05 | 7.78E-02 | 7.78E-02 |
| | **Mercury** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 8.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-02 | 5.16E-05 | 2.69E-02 | 2.69E-02 |
| | **Chromium** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 3.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.97E-01 | 2.16E-03 | 7.35E-01 | 7.38E-01 |
| | **Lead** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.61E-01 | 8.08E-03 | 4.76E-01 | 4.84E-01 |
| | **Vanadium** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.66E-01 | 2.05E-03 | 4.83E-01 | 4.85E-01 |
| **Mourning Dove - high** | **tPCB-high** | 1.41E-01 | 1.96E-02 | 1.20E-01 | 6.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-02 | 1.88E-05 | 7.78E-02 | 7.78E-02 |
| **Blue Jay - mid** | **tPCB-med** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 8.79E-02 | 0.00E+00 | 0.00E+00 | 1.76E-02 | 2.04E-05 | 1.59E-01 | 1.59E-01 |
| | **Mercury** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 7.13E-03 | 1.06E-03 | 0.00E+00 | 4.01E-02 | 0.00E+00 | 0.00E+00 | 2.01E-02 | 5.59E-05 | 6.84E-02 | 6.85E-02 |
| | **Chromium** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 2.86E-01 | 1.24E-01 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 | 4.33E-01 | 2.34E-03 | 1.17E+00 | 1.17E+00 |
| | **Lead** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.23E-02 | 4.12E-03 | 0.00E+00 | 1.95E+00 | 0.00E+00 | 0.00E+00 | 5.03E-01 | 8.75E-03 | 2.47E+00 | 2.47E+00 |
| | **Vanadium** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 1.46E-02 | 3.60E-03 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 5.08E-01 | 2.22E-03 | 6.85E-01 | 6.87E-01 |
| **Blue Jay - high** | **tPCB-high** | 1.53E-01 | 2.14E-02 | 1.30E-01 | 5.21E-02 | 1.62E-03 | 0.00E+00 | 8.79E-02 | 0.00E+00 | 0.00E+00 | 1.76E-02 | 2.04E-05 | 1.59E-01 | 1.59E-01 |
| **Carolina Wren -1 - mid** | **tPCB-med** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.91E-01 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 2.80E-02 | 4.23E-05 | 6.34E-01 | 6.34E-01 |
| | **Mercury** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 1.31E-03 | 6.92E-03 | 8.72E-02 | 1.80E-01 | 0.00E+00 | 0.00E+00 | 3.20E-02 | 1.16E-04 | 3.08E-01 | 3.08E-01 |
| | **Chromium** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 5.26E-02 | 8.09E-01 | 7.10E-01 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 6.90E-01 | 4.86E-03 | 3.73E+00 | 3.74E+00 |
| | **Lead** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.26E-03 | 2.69E-02 | 4.23E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 8.02E-01 | 1.82E-02 | 1.38E+01 | 1.38E+01 |
| | **Vanadium** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 2.68E-03 | 2.35E-02 | 3.44E-01 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 8.10E-01 | 4.62E-03 | 1.89E+00 | 1.90E+00 |
| **Carolina Wren - 1 - high** | **tPCB-high** | 2.44E-01 | 3.41E-02 | 2.70E-01 | 9.59E-03 | 1.05E-02 | 1.91E-01 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 2.80E-02 | 4.23E-05 | 6.34E-01 | 6.34E-01 |
| **Shrew - 1** | **tPCB** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 6.70E-03 | 3.13E-03 | 2.47E-01 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.15E-03 | 2.35E-05 | 4.30E-01 | 4.30E-01 |
| | **Mercury** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 9.17E-04 | 2.06E-03 | 1.13E-01 | 7.77E-02 | 0.00E+00 | 0.00E+00 | 3.60E-03 | 6.45E-05 | 1.97E-01 | 1.97E-01 |
| | **Chromium** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 3.68E-02 | 2.41E-01 | 9.19E-01 | 6.33E-01 | 0.00E+00 | 0.00E+00 | 7.75E-02 | 2.70E-03 | 1.91E+00 | 1.91E+00 |
| | **Lead** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.58E-03 | 7.99E-03 | 5.47E+00 | 3.77E+00 | 0.00E+00 | 0.00E+00 | 9.02E-02 | 1.01E-02 | 9.34E+00 | 9.35E+00 |
| | **Vanadium** | 1.28E-01 | 3.83E-03 | 1.50E-01 | 1.87E-03 | 6.98E-03 | 4.45E-01 | 3.07E-01 | 0.00E+00 | 0.00E+00 | 9.10E-02 | 2.57E-03 | 8.51E-01 | 8.54E-01 |
| **Deer** | **tPCB** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 6.40E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.41E-04 | 1.03E-05 | 6.64E-03 | 6.65E-03 |
| | **Mercury** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 8.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-04 | 2.84E-05 | 1.15E-03 | 1.18E-03 |
| | **Chromium** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 3.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.93E-03 | 1.19E-03 | 4.11E-02 | 4.22E-02 |
| | **Lead** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.89E-03 | 4.44E-03 | 8.40E-03 | 1.28E-02 |
| | **Vanadium** | 1.47E-02 | 2.93E-04 | 6.60E-02 | 1.79E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.95E-03 | 1.13E-03 | 8.74E-03 | 9.87E-03 |
| **Weasel** | **tPCB** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.12E-01 | 2.10E-03 | 1.72E-05 | 9.14E-01 | 9.14E-01 |
| | **Mercury** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-03 | 2.39E-03 | 4.73E-05 | 1.22E-02 | 1.22E-02 |
| | **Chromium** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-01 | 5.16E-02 | 1.98E-03 | 3.30E-01 | 3.32E-01 |
| | **Lead** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 6.00E-02 | 7.40E-03 | 3.75E-01 | 3.83E-01 |
| | **Vanadium** | 5.94E-02 | 2.55E-03 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 6.06E-02 | 1.88E-03 | 4.32E-01 | 4.33E-01 |
| **Fox - 1** | **tPCB** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.81E-03 | 0.00E+00 | 7.91E-03 | 0.00E+00 | 0.00E+00 | 4.59E-01 | 8.70E-04 | 1.33E-05 | 4.71E-01 | 4.71E-01 |
| | **Mercury** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 3.85E-04 | 0.00E+00 | 3.61E-03 | 0.00E+00 | 0.00E+00 | 4.94E-03 | 9.95E-04 | 3.66E-05 | 9.93E-03 | 9.96E-03 |
| | **Chromium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.54E-02 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.14E-02 | 1.53E-03 | 2.07E-01 | 2.08E-01 |
| | **Lead** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 6.63E-04 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 0.00E+00 | 1.59E-01 | 2.49E-02 | 5.72E-03 | 3.60E-01 | 3.65E-01 |
| | **Vanadium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 7.85E-04 | 0.00E+00 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 2.52E-02 | 1.45E-03 | 2.27E-01 | 2.29E-01 |
| **Fox - 2** | **tPCB** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 8.27E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.53E-01 | 8.70E-04 | 1.33E-05 | 5.54E-01 | 5.54E-01 |
| | **Mercury** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.94E-03 | 9.95E-04 | 3.66E-05 | 7.04E-03 | 7.08E-03 |
| | **Chromium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 4.54E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 2.14E-02 | 1.53E-03 | 1.95E-01 | 1.96E-01 |
| | **Lead** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 2.49E-02 | 5.72E-03 | 2.16E-01 | 2.22E-01 |
| | **Vanadium** | 3.79E-02 | 1.06E-03 | 8.50E-02 | 2.31E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-01 | 2.52E-02 | 1.45E-03 | 2.50E-01 | 2.52E-01 |

**Table E3-184**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Mourning Dove - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 2E-01 | 6E-02 | 2E-01 | 6E-02 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| **Mourning Dove - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| **Blue Jay - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **3E+00** | 1E+00 | **3E+00** | 1E+00 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 4E-01 | 4E-01 | 4E-01 | 4E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Blue Jay - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| **Carolina Wren -1 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Chromium** | 2.66E+00 | 2.80E+00 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Lead** | 1.63E+00 | 3.26E+00 | **8E+00** | **4E+00** | **8E+00** | **4E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **5E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina Wren - 1 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Shrew - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Lead** | 4.70E+00 | 8.90E+00 | **2E+00** | 1E+00 | **2E+00** | **1E+00** |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| **Deer** | **tPCB** | 2.30E-01 | 6.80E-01 | 3E-02 | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 2E-02 | 8E-03 | 2E-02 | 8E-03 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 2E-03 | 9E-04 | 3E-03 | 1E-03 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-03 | 1E-03 | 2E-03 | 1E-03 |
| **Weasel** | **tPCB** | 2.30E-01 | 6.80E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 1E-01 | 5E-02 | 1E-01 | 5E-02 |
| **Fox - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+00** | 7E-01 | **2E+00** | 7E-01 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 9E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Fox - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 8E-02 | 7E-02 | 8E-02 | 7E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 6E-02 | 3E-02 | 6E-02 | 3E-02 |

**Notes:**
COPC = constituent of potential concer
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight pe
LOAEL = lowest observed adverse effe
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect l
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients grea**

**Table E3-185**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (mg/kg) | Sediment EPC (mg/kg) | Water EPC (mg/L) | Percent Diet (%) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores |
| Carolina Wren - 2 - mid | tPCB-med | 8.21E-01 | 1.11E+00 | 1.57E-04 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | Barium | 1.02E+02 | 9.42E+01 | 1.21E-01 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | Chromium | 2.02E+01 | 2.43E+01 | 1.80E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | Cobalt | 1.05E+01 | 8.63E+00 | 1.22E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | Lead | 2.35E+01 | 2.29E+01 | 6.73E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | Mercury | 9.38E-01 | 1.07E+00 | 4.30E-04 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| | Vanadium | 2.37E+01 | 1.89E+01 | 1.71E-02 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| Carolina wren - 2 - high | tPCB-high | 8.21E-01 | 1.11E+00 | 1.57E-04 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 |
| Hawk - mid | tPCB-med | 8.21E-01 | 1.11E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Barium | 1.02E+02 | 9.42E+01 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Chromium | 2.02E+01 | 2.43E+01 | 1.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Cobalt | 1.05E+01 | 8.63E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Lead | 2.35E+01 | 2.29E+01 | 6.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Mercury | 9.38E-01 | 1.07E+00 | 4.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Vanadium | 2.37E+01 | 1.89E+01 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hawk - high | tPCB-high | 8.21E-01 | 1.11E+00 | 1.57E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | tPCB | 8.21E-01 | 1.11E+00 | 1.57E-04 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | Barium | 1.02E+02 | 9.42E+01 | 1.21E-01 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | Chromium | 2.02E+01 | 2.43E+01 | 1.80E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | Cobalt | 1.05E+01 | 8.63E+00 | 1.22E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | Lead | 2.35E+01 | 2.29E+01 | 6.73E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | Mercury | 9.38E-01 | 1.07E+00 | 4.30E-04 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| | Vanadium | 2.37E+01 | 1.89E+01 | 1.71E-02 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 |
| Shrew - 2 | tPCB | 8.21E-01 | 1.11E+00 | 1.57E-04 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | Barium | 1.02E+02 | 9.42E+01 | 1.21E-01 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | Chromium | 2.02E+01 | 2.43E+01 | 1.80E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | Cobalt | 1.05E+01 | 8.63E+00 | 1.22E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | Lead | 2.35E+01 | 2.29E+01 | 6.73E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | Mercury | 9.38E-01 | 1.07E+00 | 4.30E-04 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |
| | Vanadium | 2.37E+01 | 1.89E+01 | 1.71E-02 | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 |

**Table E3-185**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| Carolina Wren - 2 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| Carolina wren - 2 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| Hawk - mid | tPCB-med | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Barium | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Chromium | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Cobalt | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Lead | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Mercury | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| | Vanadium | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| Hawk - high | tPCB-high | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| Raccoon - 1 | tPCB | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Barium | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Chromium | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Cobalt | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Lead | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Mercury | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| | Vanadium | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| Shrew - 2 | tPCB | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Barium | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Chromium | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Cobalt | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Lead | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Mercury | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |
| | Vanadium | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |

**Table E3-185**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| **Hawk - mid** | **tPCB-med** | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Hawk - high** | **tPCB-high** | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| **Raccoon - 1** | **tPCB** | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |
| **Shrew - 2** | **tPCB** | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 |
| | **Barium** | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 |
| | **Chromium** | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 |
| | **Cobalt** | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 |
| | **Lead** | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 |
| | **Mercury** | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 |
| | **Vanadium** | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 |

**Table E3-185**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Measured Tissue (mg/kg dry weight) | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Water Ingestion Rate |
| Carolina Wren - 2 - mid | tPCB-med | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Barium | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Chromium | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Cobalt | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Lead | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Mercury | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| | Vanadium | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| Carolina wren - 2 - high | tPCB-high | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.70E-01 |
| Hawk - mid | tPCB-med | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Barium | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Chromium | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Cobalt | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Lead | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Mercury | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| | Vanadium | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| Hawk - high | tPCB-high | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 5.70E-02 |
| Raccoon - 1 | tPCB | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Barium | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Chromium | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Cobalt | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Lead | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Mercury | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| | Vanadium | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 |
| Shrew - 2 | tPCB | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Barium | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Chromium | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Cobalt | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Lead | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Mercury | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |
| | Vanadium | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 1.50E-01 |

**Table E3-185**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 9.37E-03 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 1.54E+00 | 0.00E+00 | 0.00E+00 | 8.37E+00 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 1.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 6.85E-02 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 8.09E-01 | 0.00E+00 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 7.62E-01 | 0.00E+00 | 0.00E+00 | 2.08E-01 | 0.00E+00 | 2.02E+00 | 0.00E+00 | 4.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 1.55E-01 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 8.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 1.53E-03 | 0.00E+00 | 0.00E+00 | 8.72E-02 | 0.00E+00 | 6.92E-03 | 0.00E+00 | 1.80E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.26E-02 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 0.00E+00 | 2.35E-02 | 0.00E+00 | 7.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Carolina wren - 2 - high** | **tPCB-high** | 9.37E-03 | 0.00E+00 | 0.00E+00 | 1.91E-01 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Hawk - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-01 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-01 | 0.00E+00 | 0.00E+00 |
| **Hawk - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.40E-02 | 0.00E+00 | 2.58E-04 | 1.40E-02 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 7.06E-04 | 0.00E+00 | 6.40E-03 | 0.00E+00 | 1.69E-04 | 6.40E-03 | 0.00E+00 | 2.35E-04 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 |
| **Shrew - 2** | **tPCB** | 0.00E+00 | 9.50E-03 | 0.00E+00 | 2.74E-01 | 0.00E+00 | 2.15E-03 | 1.17E-01 | 0.00E+00 | 9.82E-02 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 0.00E+00 | 5.45E+00 | 0.00E+00 | 1.20E+01 | 0.00E+00 | 1.98E-01 | 5.12E+00 | 0.00E+00 | 2.78E-01 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.02E+00 | 0.00E+00 | 1.65E-01 | 4.35E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 0.00E+00 | 8.56E-03 | 0.00E+00 | 2.98E-01 | 0.00E+00 | 4.13E-01 | 1.27E-01 | 0.00E+00 | 9.99E-02 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 0.00E+00 | 2.24E-03 | 0.00E+00 | 6.06E+00 | 0.00E+00 | 5.48E-03 | 2.59E+00 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 0.00E+00 | 1.30E-03 | 0.00E+00 | 1.25E-01 | 0.00E+00 | 1.41E-03 | 5.33E-02 | 0.00E+00 | 1.05E-03 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 0.00E+00 | 2.65E-03 | 0.00E+00 | 4.93E-01 | 0.00E+00 | 4.79E-03 | 2.10E-01 | 0.00E+00 | 3.99E-02 | 0.00E+00 | 0.00E+00 |

**Table E3-185**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (mg/kg-day) | | | | | | | | | Total Dose (mg/kg-day) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment | Water | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | Soil + Sediment + Prey + Water |
| Carolina Wren - 2 - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.80E-02 | 0.00E+00 | 4.23E-05 | 2.30E-01 | 4.04E-01 | 6.34E-01 | 6.34E-01 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.47E+00 | 0.00E+00 | 3.27E-02 | 1.28E+01 | 1.88E+01 | 3.16E+01 | 3.17E+01 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.90E-01 | 0.00E+00 | 4.86E-03 | 2.21E+00 | 1.54E+00 | 3.75E+00 | 3.75E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.57E-01 | 0.00E+00 | 3.29E-03 | 2.59E+00 | 1.19E+00 | 3.78E+00 | 3.78E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.02E-01 | 0.00E+00 | 1.82E-02 | 5.06E+00 | 8.90E+00 | 1.40E+01 | 1.40E+01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.20E-02 | 0.00E+00 | 1.16E-04 | 1.26E-01 | 1.82E-01 | 3.08E-01 | 3.08E-01 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.10E-01 | 0.00E+00 | 4.62E-03 | 1.18E+00 | 7.53E-01 | 1.93E+00 | 1.94E+00 |
| Carolina wren - 2 - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.80E-02 | 0.00E+00 | 4.23E-05 | 2.30E-01 | 4.04E-01 | 6.34E-01 | 6.34E-01 |
| Hawk - mid | tPCB-med | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.75E-01 | 0.00E+00 | 3.75E-03 | 5.07E-03 | 8.93E-06 | 1.07E+00 | 5.80E-01 | 1.65E+00 | 1.65E+00 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-01 | 0.00E+00 | 4.64E-01 | 4.30E-01 | 6.90E-03 | 3.49E+00 | 5.34E-01 | 4.03E+00 | 4.03E+00 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 9.24E-02 | 1.11E-01 | 1.03E-03 | 4.19E-01 | 2.05E-01 | 6.24E-01 | 6.25E-01 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00 | 4.77E-02 | 3.94E-02 | 6.95E-04 | 1.14E+00 | 2.74E-01 | 1.41E+00 | 1.41E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.98E-03 | 0.00E+00 | 1.07E-01 | 1.04E-01 | 3.84E-03 | 4.78E-01 | 1.12E-01 | 5.90E-01 | 5.94E-01 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-02 | 0.00E+00 | 4.29E-03 | 4.89E-03 | 2.45E-05 | 1.58E-02 | 2.69E-02 | 4.27E-02 | 4.28E-02 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-02 | 0.00E+00 | 1.08E-01 | 8.61E-02 | 9.75E-04 | 5.44E-01 | 1.80E-01 | 7.24E-01 | 7.25E-01 |
| Hawk - high | tPCB-high | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.75E-01 | 0.00E+00 | 3.75E-03 | 5.07E-03 | 8.93E-06 | 1.07E+00 | 5.80E-01 | 1.65E+00 | 1.65E+00 |
| Raccoon - 1 | tPCB | 3.64E-03 | 3.12E-02 | 0.00E+00 | 0.00E+00 | 2.96E-02 | 4.37E-03 | 2.07E-03 | 0.00E+00 | 1.30E-05 | 5.74E-02 | 6.88E-02 | 1.26E-01 | 1.26E-01 |
| | Barium | 6.95E-01 | 8.72E-03 | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 2.56E-01 | 0.00E+00 | 1.00E-02 | 4.53E+00 | 7.44E-01 | 5.27E+00 | 5.28E+00 |
| | Chromium | 4.84E-03 | 2.69E-03 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 5.10E-02 | 0.00E+00 | 1.49E-03 | 2.10E-01 | 2.69E-02 | 2.37E-01 | 2.38E-01 |
| | Cobalt | 6.97E-02 | 2.69E-04 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.64E-02 | 0.00E+00 | 1.01E-03 | 1.33E-01 | 8.34E-02 | 2.17E-01 | 2.18E-01 |
| | Lead | 1.15E-02 | 3.23E-04 | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 5.93E-02 | 0.00E+00 | 5.59E-03 | 6.89E-01 | 1.55E-02 | 7.05E-01 | 7.11E-01 |
| | Mercury | 8.16E-04 | 6.32E-04 | 0.00E+00 | 0.00E+00 | 1.14E-03 | 4.51E-04 | 2.37E-03 | 0.00E+00 | 3.57E-05 | 1.63E-02 | 3.03E-03 | 1.93E-02 | 1.93E-02 |
| | Vanadium | 4.84E-03 | 7.01E-04 | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 5.98E-02 | 0.00E+00 | 1.42E-03 | 1.21E-01 | 1.17E-02 | 1.33E-01 | 1.34E-01 |
| Shrew - 2 | tPCB | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.05E-02 | 6.94E-03 | 3.15E-03 | 4.26E-03 | 2.35E-05 | 5.04E-01 | 8.17E-02 | 5.85E-01 | 5.85E-01 |
| | Barium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-02 | 5.62E-02 | 3.90E-01 | 3.61E-01 | 1.82E-02 | 2.34E+01 | 4.30E-01 | 2.39E+01 | 2.39E+01 |
| | Chromium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.31E-02 | 7.75E-02 | 9.30E-02 | 2.70E-03 | 1.78E+00 | 1.28E-01 | 1.91E+00 | 1.91E+00 |
| | Cobalt | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-02 | 1.99E-03 | 4.01E-02 | 3.31E-02 | 1.83E-03 | 9.86E-01 | 6.39E-02 | 1.05E+00 | 1.05E+00 |
| | Lead | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.79E-04 | 5.27E-03 | 9.02E-02 | 8.77E-02 | 1.01E-02 | 8.78E+00 | 9.39E-02 | 8.88E+00 | 8.89E+00 |
| | Mercury | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-03 | 7.16E-04 | 3.60E-03 | 4.10E-03 | 6.45E-05 | 1.86E-01 | 7.52E-03 | 1.93E-01 | 1.93E-01 |
| | Vanadium | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 2.07E-03 | 9.10E-02 | 7.23E-02 | 2.57E-03 | 8.42E-01 | 8.59E-02 | 9.28E-01 | 9.30E-01 |

**Table E3-185**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**LAA**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NOAEL TRV | LOAEL TRV | Soil NOAEL HQ (excluding water) | Soil LOAEL HQ (excluding water) | Sediment NOAEL HQ (excluding water) | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | 5E-01 | 2E-01 | 9E-01 | 3E-01 | **1E+00** | 5E-01 | **1E+00** | 5E-01 |
| | **Barium** | 2.08E+01 | 4.17E+01 | 6E-01 | 3E-01 | 9E-01 | 5E-01 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 8E-01 | 8E-01 | 6E-01 | 5E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 3E-01 | 3E-01 | 2E-01 | 2E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | **3E+00** | **2E+00** | **5E+00** | **3E+00** | **9E+00** | **4E+00** | **9E+00** | **4E+00** |
| | **Mercury** | 2.27E-02 | 6.80E-02 | **6E+00** | **2E+00** | **8E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **2E+00** | **1E+00** | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **5E+00** | **2E+00** | **9E+00** | **3E+00** | **1E+01** | **5E+00** | **1E+01** | **5E+00** |
| **Hawk - mid** | **tPCB-med** | 4.67E-01 | 1.40E+00 | **2E+00** | 8E-01 | **1E+00** | 4E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Barium** | 2.08E+01 | 4.17E+01 | 2E-01 | 8E-02 | 3E-02 | 1E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 2.66E+00 | 2.80E+00 | 2E-01 | 1E-01 | 8E-02 | 7E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 7.61E+00 | 7.80E+00 | 1E-01 | 1E-01 | 4E-02 | 4E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 1.63E+00 | 3.26E+00 | 3E-01 | 1E-01 | 7E-02 | 3E-02 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | 2.27E-02 | 6.80E-02 | 7E-01 | 2E-01 | **1E+00** | 4E-01 | **2E+00** | 6E-01 | **2E+00** | 6E-01 |
| | **Vanadium** | 3.44E-01 | 7.00E-01 | **2E+00** | 8E-01 | 5E-01 | 3E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | 4.33E-02 | 1.30E-01 | **2E+01** | **8E+00** | **1E+01** | **4E+00** | **4E+01** | **1E+01** | **4E+01** | **1E+01** |
| **Raccoon - 1** | **tPCB** | 2.30E-01 | 6.80E-01 | 2E-01 | 8E-02 | 3E-01 | 1E-01 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 1E-02 | 1E-02 | 1E-01 | 8E-02 | 1E-01 | 8E-02 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 4.70E+00 | 8.90E+00 | 1E-01 | 8E-02 | 3E-03 | 2E-03 | 1E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | 2E-01 | 1E-01 | 4E-02 | 2E-02 | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | 2.30E-01 | 6.80E-01 | **2E+00** | 7E-01 | 4E-01 | 1E-01 | **3E+00** | 9E-01 | **3E+00** | 9E-01 |
| | **Barium** | 5.18E+01 | 1.21E+02 | 5E-01 | 2E-01 | 8E-03 | 4E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Chromium** | 2.40E+00 | 2.82E+00 | 7E-01 | 6E-01 | 5E-02 | 5E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 7.33E+00 | 1.00E+01 | 1E-01 | 1E-01 | 9E-03 | 6E-03 | 1E-01 | 1E-01 | 1E-01 | 1E-01 |
| | **Lead** | 4.70E+00 | 8.90E+00 | **2E+00** | 1E+00 | 2E-02 | 1E-02 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| | **Mercury** | 7.50E-02 | 1.50E-01 | **2E+00** | **1E+00** | 1E-01 | 5E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Vanadium** | 4.16E+00 | 8.31E+00 | 2E-01 | 1E-01 | 2E-02 | 1E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-186**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**LAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | | | | Percent Diet (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Soil EPC (mg/kg)** | **Sediment EPC (mg/kg)** | **Water EPC (mg/L)** | **Aquatic Plants** | **Terrestrial Plants** | **Benthic Invertebrates (odonata larvae)** | **Soil Invertebrates (worms)** | **Aquatic Emergent Insects** | **Terrestrial Insects (Grasshoppers)** | **Terrestrial Spiders / Detritivores** | **Riparian Spiders / Detritivores** | **Small mammals/birds** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | **1.04E+02** | **9.42E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | **1.96E+01** | **2.43E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | **9.81E+00** | **8.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | **2.54E+01** | **2.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | **2.07E+01** | **1.89E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Barium** | **1.04E+02** | **9.42E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Chromium** | **1.96E+01** | **2.43E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Cobalt** | **9.81E+00** | **8.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Lead** | **2.54E+01** | **2.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| | **Vanadium** | **2.07E+01** | **1.89E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **GBH - high** | **tPCB-high** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 |
| **Mink - 1** | **tPCB-mink** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Barium** | **1.04E+02** | **9.42E+01** | **1.21E-01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Chromium** | **1.96E+01** | **2.43E+01** | **1.80E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Cobalt** | **9.81E+00** | **8.63E+00** | **1.22E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Lead** | **2.54E+01** | **2.29E+01** | **6.73E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | **4.30E-04** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| | **Vanadium** | **2.07E+01** | **1.89E+01** | **1.71E-02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 |
| **Mink - 2** | **tPCB-mink** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Barium** | **1.04E+02** | **9.42E+01** | **1.21E-01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Chromium** | **1.96E+01** | **2.43E+01** | **1.80E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Cobalt** | **9.81E+00** | **8.63E+00** | **1.22E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Lead** | **2.54E+01** | **2.29E+01** | **6.73E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | **4.30E-04** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| | **Vanadium** | **2.07E+01** | **1.89E+01** | **1.71E-02** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 |
| **Raccoon - 1** | **tPCB** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Barium** | **1.04E+02** | **9.42E+01** | **1.21E-01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Chromium** | **1.96E+01** | **2.43E+01** | **1.80E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Cobalt** | **9.81E+00** | **8.63E+00** | **1.22E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Lead** | **2.54E+01** | **2.29E+01** | **6.73E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | **4.30E-04** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| | **Vanadium** | **2.07E+01** | **1.89E+01** | **1.71E-02** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 |
| **Raccoon - 2** | **tPCB** | **1.83E+00** | **1.11E+00** | **1.57E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Barium** | **1.04E+02** | **9.42E+01** | **1.21E-01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Chromium** | **1.96E+01** | **2.43E+01** | **1.80E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Cobalt** | **9.81E+00** | **8.63E+00** | **1.22E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Lead** | **2.54E+01** | **2.29E+01** | **6.73E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | **4.30E-04** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |
| | **Vanadium** | **2.07E+01** | **1.89E+01** | **1.71E-02** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 |

**Table E3-186**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**LAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Percent Diet (%) | | | | | | | | | | Measured Tissue (mg/kg dry weight) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** | **Fish (all sizes)** | **Predator Fish** | **Forage Fish** | **Reptiles** | **Amphibians** | **Soil** | **Sediment** | **Aquatic Plants** | **Terrestrial Plants** | **Benthic Invertebrates (odonata larvae)** | **Soil Invertebrates (Worms / Spiders / Detritivores)** | **Aquatic Emergent Insects** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |
| **Raccoon - 2** | **tPCB** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 4.27E-01 | 4.37E-01 | 1.09E+00 | 5.23E+00 | 1.11E+00 |
| | **Barium** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.01E+01 | 2.51E+02 | 6.00E+01 | 2.29E+02 | 1.14E+01 |
| | **Chromium** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.13E+00 | 2.40E+00 | 3.87E+00 | 1.94E+01 | 1.34E+01 |
| | **Cobalt** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 3.47E+01 | 3.94E-01 | 4.44E+00 | 5.68E+00 | 2.84E-01 |
| | **Lead** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 7.05E+00 | 1.03E-01 | 6.00E+00 | 1.16E+02 | 6.75E-01 |
| | **Mercury** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 6.99E-02 | 5.98E-02 | 4.76E-01 | 2.39E+00 | 2.06E-01 |
| | **Vanadium** | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 | 1.94E+00 | 1.22E-01 | 2.56E+00 | 9.41E+00 | 5.83E-01 |

**Table E3-186**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**LAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Measured Tissue (mg/kg dry weight) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Terrestrial Insects** | **Terrestrial Spiders / Detritivores** | **Riparian Spiders / Detritivores** | **Small mammals/birds** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** | **Fish (all sizes)** | **Predator Fish** | **Forage Fish** | **Reptiles** | **Amphibians** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **GBH - mid** | **tPCB-med** | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **GBH - high** | **tPCB-high** | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Mink - 1** | **tPCB-mink** | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Mink - 2** | **tPCB-mink** | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Raccoon - 1** | **tPCB** | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |
| **Raccoon - 2** | **tPCB** | 9.60E-02 | 5.23E+00 | 5.23E+00 | 1.54E+01 | 1.09E+00 | 1.20E+01 | 1.05E+00 | 5.28E+01 | 1.02E+02 | 3.35E+01 | 5.52E+01 | 5.43E+00 |
| | **Barium** | 8.86E+00 | 2.29E+02 | 2.29E+02 | 4.34E+01 | 6.00E+01 | 3.42E+01 | 1.99E+02 | 1.48E+01 | 1.53E+01 | 3.30E+01 | 9.91E+00 | 4.40E+01 |
| | **Chromium** | 7.38E+00 | 1.94E+01 | 1.94E+01 | 4.69E+00 | 3.87E+00 | 1.34E+01 | 1.39E+00 | 4.56E+00 | 1.90E+00 | 1.11E+01 | 9.01E+00 | 1.81E+01 |
| | **Cobalt** | 1.85E+01 | 5.68E+00 | 5.68E+00 | 1.56E+01 | 4.44E+00 | 3.88E+00 | 2.00E+01 | 4.55E-01 | 4.55E-01 | 1.93E+01 | 2.25E+01 | 1.56E+00 |
| | **Lead** | 2.45E-01 | 1.16E+02 | 1.16E+02 | 5.31E+00 | 6.00E+00 | 4.47E+00 | 3.29E+00 | 5.47E-01 | 2.14E-01 | 2.07E+00 | 7.66E-01 | 4.12E+00 |
| | **Mercury** | 6.31E-02 | 2.39E+00 | 2.39E+00 | 1.65E-01 | 4.76E-01 | 8.64E-01 | 2.34E-01 | 1.07E+00 | 2.35E+00 | 6.46E-01 | 2.12E+00 | 5.60E-01 |
| | **Vanadium** | 2.14E-01 | 9.41E+00 | 9.41E+00 | 6.25E+00 | 2.56E+00 | 1.88E+00 | 1.39E+00 | 1.19E+00 | 1.48E-01 | 1.19E+00 | 9.01E+00 | 1.62E+00 |

**Table E3-186**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**LAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | | Dose From Dietary Components (mg/kg-day) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Body Weight (kg)** | **Food Ingestion Rate** | **Soil Ingestion** | **Sediment Ingestion Rate** | **Water Ingestion Rate** | **Aquatic Plants** | **Terrestrial Plants** | **Benthic Invertebrates (odonata larvae)** | **Soil Invertebrates (worms)** | **Aquatic Emergent Insects** | **Terrestrial Insects** | **Terrestrial Spiders / Detritivores** | **Riparian Spiders / Detritivores** | **Small mammals/ birds** | **Aquatic Oligochaetes** | **Mollusc** | **Crayfish** | **Fish (all sizes)** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 9.69E-02 | 4.65E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Barium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E+00 | 2.04E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Chromium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.44E-01 | 1.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Cobalt** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 3.96E-01 | 5.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Lead** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 5.34E-01 | 1.03E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Mercury** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 4.24E-02 | 2.12E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | **Vanadium** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 2.28E-01 | 8.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 | 1.70E-01 | 0.00E+00 | 0.00E+00 | 9.69E-02 | 4.65E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH - mid** | **tPCB-med** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-02 | 0.00E+00 | 0.00E+00 | 1.84E-03 | 8.74E+00 |
| | **Barium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.65E-02 | 0.00E+00 | 0.00E+00 | 3.51E-01 | 2.45E+00 |
| | **Chromium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-03 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 7.54E-01 |
| | **Cobalt** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-02 | 0.00E+00 | 0.00E+00 | 3.52E-02 | 7.53E-02 |
| | **Lead** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.35E-03 | 0.00E+00 | 0.00E+00 | 5.78E-03 | 9.05E-02 |
| | **Mercury** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.91E-04 | 0.00E+00 | 0.00E+00 | 4.12E-04 | 1.77E-01 |
| | **Vanadium** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 0.00E+00 | 2.44E-03 | 1.97E-01 |
| **GBH - high** | **tPCB-high** | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 | 4.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-02 | 0.00E+00 | 0.00E+00 | 1.84E-03 | 8.74E+00 |
| **Mink - 1** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-01 | 0.00E+00 | 0.00E+00 | 4.65E-03 | 0.00E+00 |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-01 | 0.00E+00 | 0.00E+00 | 4.65E-03 | 0.00E+00 |
| | **Barium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.45E-01 | 0.00E+00 | 0.00E+00 | 8.87E-01 | 0.00E+00 |
| | **Chromium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 |
| | **Cobalt** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 | 0.00E+00 | 0.00E+00 | 8.90E-02 | 0.00E+00 |
| | **Lead** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 0.00E+00 |
| | **Mercury** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-03 | 0.00E+00 | 0.00E+00 | 1.04E-03 | 0.00E+00 |
| | **Vanadium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 6.17E-03 | 0.00E+00 |
| **Mink - 2** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.11E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.56E-02 | 0.00E+00 | 0.00E+00 | 2.07E-03 | 0.00E+00 |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 2.11E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.56E-02 | 0.00E+00 | 0.00E+00 | 2.07E-03 | 0.00E+00 |
| | **Barium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 3.94E-01 | 0.00E+00 |
| | **Chromium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 |
| | **Cobalt** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 |
| | **Lead** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.49E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 6.50E-03 | 0.00E+00 |
| | **Mercury** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 3.46E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.90E-04 | 0.00E+00 | 0.00E+00 | 4.63E-04 | 0.00E+00 |
| | **Vanadium** | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 | 1.00E-01 | 9.62E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 0.00E+00 | 0.00E+00 | 2.74E-03 | 0.00E+00 |
| **Raccoon - 1** | **tPCB** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 5.16E-03 | 0.00E+00 | 1.40E-02 | 0.00E+00 | 2.58E-04 | 1.40E-02 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 0.00E+00 | 3.64E-03 | 3.12E-02 |
| | **Barium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 2.38E-02 | 6.14E-01 | 0.00E+00 | 6.18E-02 | 0.00E+00 | 0.00E+00 | 6.95E-01 | 8.72E-03 |
| | **Chromium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 2.83E-02 | 0.00E+00 | 5.21E-02 | 0.00E+00 | 1.98E-02 | 5.21E-02 | 0.00E+00 | 6.67E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 2.69E-03 |
| | **Cobalt** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 4.65E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 4.95E-02 | 1.52E-02 | 0.00E+00 | 2.22E-02 | 0.00E+00 | 0.00E+00 | 6.97E-02 | 2.69E-04 |
| | **Lead** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.22E-03 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 6.57E-04 | 3.10E-01 | 0.00E+00 | 7.55E-03 | 0.00E+00 | 0.00E+00 | 1.15E-02 | 3.23E-04 |
| | **Mercury** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 7.06E-04 | 0.00E+00 | 6.40E-03 | 0.00E+00 | 1.69E-04 | 6.40E-03 | 0.00E+00 | 2.35E-04 | 0.00E+00 | 0.00E+00 | 8.16E-04 | 6.32E-04 |
| | **Vanadium** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 8.30E-02 | 0.00E+00 | 1.44E-03 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 5.74E-04 | 2.52E-02 | 0.00E+00 | 8.89E-03 | 0.00E+00 | 0.00E+00 | 4.84E-03 | 7.01E-04 |
| **Raccoon - 2** | **tPCB** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.95E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.83E-02 | 8.76E-04 | 4.17E-02 | 3.64E-03 | 3.26E-01 |
| | **Barium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-01 | 4.83E-02 | 1.19E-01 | 6.95E-01 | 9.12E-02 |
| | **Chromium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-02 | 3.11E-03 | 4.68E-02 | 4.84E-03 | 2.81E-02 |
| | **Cobalt** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.96E-02 | 3.58E-03 | 1.35E-02 | 6.97E-02 | 2.81E-03 |
| | **Lead** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-02 | 4.83E-03 | 1.56E-02 | 1.15E-02 | 3.38E-03 |
| | **Mercury** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 3.19E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.41E-04 | 3.83E-04 | 3.01E-03 | 8.16E-04 | 6.60E-03 |
| | **Vanadium** | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 | 8.30E-02 | 8.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-02 | 2.06E-03 | 6.56E-03 | 4.84E-03 | 7.33E-03 |

**Table E3-186**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**LAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Dose From Dietary Components (mg/kg-day) | | | | | | | Total Dose (mg/kg-day) | | | | Toxicity Reference Values (mg/kg-day) | | Hazard Quotients | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **Predator Fish** | **Forage Fish** | **Reptiles** | **Amphibians** | **Soil** | **Sediment** | **Water** | **Soil + Prey** | **Sediment + Prey** | **Soil + Sediment + Prey** | **Soil + Sediment + Prey + Water** | **NOAEL TRV** | **LOAEL TRV** | **Soil NOAEL HQ (excluding water)** | **Soil LOAEL HQ (excluding water)** | **Sediment NOAEL HQ (excluding water)** | **Sediment LOAEL HQ (excluding water)** | **NOAEL HQ (excluding water)** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-02 | 1.78E-02 | 2.66E-05 | 4.94E-01 | 1.15E-01 | 6.09E-01 | 6.09E-01 | 4.67E-01 | 1.40E+00 | **1E+00** | 4E-01 | 2E-01 | 8E-02 | **1E+00** |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E+00 | 1.51E+00 | 2.06E-02 | 2.20E+01 | 6.85E+00 | 2.89E+01 | 2.89E+01 | 2.08E+01 | 4.17E+01 | **1E+00** | 5E-01 | 3E-01 | 2E-01 | **1E+00** |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 3.89E-01 | 3.06E-03 | 2.04E+00 | 7.33E-01 | 2.78E+00 | 2.78E+00 | 2.66E+00 | 2.80E+00 | 8E-01 | 7E-01 | 3E-01 | 3E-01 | 1E+00 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-01 | 1.38E-01 | 2.07E-03 | 6.63E-01 | 5.34E-01 | 1.20E+00 | 1.20E+00 | 7.61E+00 | 7.80E+00 | 9E-02 | 9E-02 | 7E-02 | 7E-02 | 2E-01 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.08E-01 | 3.66E-01 | 1.14E-02 | 1.07E+01 | 9.01E-01 | 1.16E+01 | 1.16E+01 | 1.63E+00 | 3.26E+00 | **7E+00** | **3E+00** | 6E-01 | 3E-01 | **7E+00** |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.20E-02 | 1.71E-02 | 7.31E-05 | 2.74E-01 | 5.95E-02 | 3.34E-01 | 3.34E-01 | 2.27E-02 | 6.80E-02 | **1E+01** | **4E+00** | **3E+00** | 9E-01 | **1E+01** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.31E-01 | 3.02E-01 | 2.91E-03 | 1.17E+00 | 5.30E-01 | 1.70E+00 | 1.70E+00 | 3.44E-01 | 7.00E-01 | **3E+00** | **2E+00** | **2E+00** | 8E-01 | **5E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-02 | 1.78E-02 | 2.66E-05 | 4.94E-01 | 1.15E-01 | 6.09E-01 | 6.09E-01 | 4.33E-02 | 1.30E-01 | **1E+01** | **4E+00** | **3E+00** | 9E-01 | **1E+01** |
| **GBH - mid** | **tPCB-med** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.83E-02 | 0.00E+00 | 3.91E-03 | 7.05E-06 | 2.70E-02 | 8.79E+00 | 8.82E+00 | 8.82E+00 | 4.67E-01 | 1.40E+00 | 6E-02 | 2E-02 | **2E+01** | **6E+00** | **2E+01** |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 3.32E-01 | 5.45E-03 | 7.65E-02 | 3.44E+00 | 3.52E+00 | 3.52E+00 | 2.08E+01 | 4.17E+01 | 4E-03 | 2E-03 | 2E-01 | 8E-02 | 2E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 8.54E-02 | 8.10E-04 | 8.25E-03 | 9.69E-01 | 9.77E-01 | 9.78E-01 | 2.66E+00 | 2.80E+00 | 3E-03 | 3E-03 | 4E-01 | 3E-01 | 4E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-02 | 0.00E+00 | 3.04E-02 | 5.49E-04 | 2.75E-02 | 1.52E-01 | 1.79E-01 | 1.80E-01 | 7.61E+00 | 7.80E+00 | 4E-03 | 4E-03 | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-02 | 0.00E+00 | 8.05E-02 | 3.03E-03 | 9.35E-03 | 2.06E-01 | 2.15E-01 | 2.18E-01 | 1.63E+00 | 3.26E+00 | 6E-03 | 3E-03 | 1E-01 | 6E-02 | 1E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.94E-03 | 0.00E+00 | 3.77E-03 | 1.94E-05 | 2.91E-04 | 1.85E-01 | 1.86E-01 | 1.86E-01 | 2.27E-02 | 6.80E-02 | 1E-02 | 4E-03 | **8E+00** | **3E+00** | **8E+00** |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 6.64E-02 | 7.70E-04 | 1.10E-02 | 2.77E-01 | 2.88E-01 | 2.89E-01 | 3.44E-01 | 7.00E-01 | 3E-02 | 2E-02 | 8E-01 | 4E-01 | 8E-01 |
| **GBH - high** | **tPCB-high** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.83E-02 | 0.00E+00 | 3.91E-03 | 7.05E-06 | 2.70E-02 | 8.79E+00 | 8.82E+00 | 8.82E+00 | 4.33E-02 | 1.30E-01 | 6E-01 | 2E-01 | **2E+02** | **7E+01** | **2E+02** |
| **Mink - 1** | **tPCB-mink** | 0.00E+00 | 3.48E-01 | 0.00E+00 | 6.98E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.34E-01 | 4.23E-01 | 7.57E-01 | 7.57E-01 | 5.00E-02 | 1.00E-01 | **7E+00** | **3E+00** | **8E+00** | **4E+00** | **2E+01** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 3.48E-01 | 0.00E+00 | 6.98E-02 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 3.34E-01 | 4.23E-01 | 7.57E-01 | 7.57E-01 | na | 5.00E-02 | -- | **7E+00** | -- | **8E+00** | -- |
| | **Barium** | 0.00E+00 | 3.42E-01 | 0.00E+00 | 5.66E-01 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 9.45E-01 | 1.80E+00 | 2.74E+00 | 2.75E+00 | 5.18E+01 | 1.21E+02 | 2E-02 | 8E-03 | 3E-02 | 1E-02 | 5E-02 |
| | **Chromium** | 0.00E+00 | 1.15E-01 | 0.00E+00 | 2.32E-01 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.02E-01 | 3.54E-01 | 4.56E-01 | 4.58E-01 | 2.40E+00 | 2.82E+00 | 4E-02 | 4E-02 | 1E-01 | 1E-01 | 2E-01 |
| | **Cobalt** | 0.00E+00 | 2.01E-01 | 0.00E+00 | 2.00E-02 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 3.40E-01 | 3.10E-01 | 6.50E-01 | 6.51E-01 | 7.33E+00 | 1.00E+01 | 5E-02 | 3E-02 | 4E-02 | 3E-02 | 9E-02 |
| | **Lead** | 0.00E+00 | 2.15E-02 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.16E-01 | 8.91E-02 | 2.05E-01 | 2.11E-01 | 4.70E+00 | 8.90E+00 | 2E-02 | 1E-02 | 2E-02 | 1E-02 | 4E-02 |
| | **Mercury** | 0.00E+00 | 6.71E-03 | 0.00E+00 | 7.20E-03 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 3.59E-03 | 1.50E-02 | 1.85E-02 | 1.86E-02 | 7.50E-02 | 1.50E-01 | 5E-02 | 2E-02 | 2E-01 | 1E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 1.23E-02 | 0.00E+00 | 2.08E-02 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.36E-01 | 3.93E-02 | 1.75E-01 | 1.77E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 2E-02 | 9E-03 | 5E-03 | 4E-02 |
| **Mink - 2** | **tPCB-mink** | 0.00E+00 | 1.43E+00 | 0.00E+00 | 8.06E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.56E-02 | 1.44E+00 | 1.48E+00 | 1.48E+00 | 5.00E-02 | 1.00E-01 | 9E-01 | 5E-01 | **3E+01** | **1E+01** | **3E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | 0.00E+00 | 1.43E+00 | 0.00E+00 | 8.06E-03 | 0.00E+00 | 0.00E+00 | 1.57E-05 | 4.56E-02 | 1.44E+00 | 1.48E+00 | 1.48E+00 | na | 5.00E-02 | -- | 9E-01 | -- | **3E+01** | -- |
| | **Barium** | 0.00E+00 | 1.40E+00 | 0.00E+00 | 6.53E-02 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.29E-01 | 1.90E+00 | 2.02E+00 | 2.04E+00 | 5.18E+01 | 1.21E+02 | 2E-03 | 1E-03 | 4E-02 | 2E-02 | 4E-02 |
| | **Chromium** | 0.00E+00 | 4.73E-01 | 0.00E+00 | 2.68E-02 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 1.39E-02 | 5.04E-01 | 5.18E-01 | 5.19E-01 | 2.40E+00 | 2.82E+00 | 6E-03 | 5E-03 | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 0.00E+00 | 8.21E-01 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 4.64E-02 | 8.80E-01 | 9.27E-01 | 9.28E-01 | 7.33E+00 | 1.00E+01 | 6E-03 | 5E-03 | 1E-01 | 9E-02 | 1E-01 |
| | **Lead** | 0.00E+00 | 8.80E-02 | 0.00E+00 | 6.11E-03 | 0.00E+00 | 0.00E+00 | 6.73E-03 | 1.58E-02 | 1.04E-01 | 1.20E-01 | 1.27E-01 | 4.70E+00 | 8.90E+00 | 3E-03 | 2E-03 | 2E-02 | 1E-02 | 3E-02 |
| | **Mercury** | 0.00E+00 | 2.75E-02 | 0.00E+00 | 8.31E-04 | 0.00E+00 | 0.00E+00 | 4.30E-05 | 4.90E-04 | 2.88E-02 | 2.93E-02 | 2.93E-02 | 7.50E-02 | 1.50E-01 | 7E-03 | 3E-03 | 4E-01 | 2E-01 | 4E-01 |
| | **Vanadium** | 0.00E+00 | 5.05E-02 | 0.00E+00 | 2.40E-03 | 0.00E+00 | 0.00E+00 | 1.71E-03 | 1.85E-02 | 5.66E-02 | 7.52E-02 | 7.69E-02 | 4.16E+00 | 8.31E+00 | 4E-03 | 2E-03 | 1E-02 | 7E-03 | 2E-02 |
| **Raccoon - 1** | **tPCB** | 0.00E+00 | 0.00E+00 | 2.96E-02 | 4.37E-03 | 4.61E-03 | 0.00E+00 | 1.30E-05 | 5.99E-02 | 6.88E-02 | 1.29E-01 | 1.29E-01 | 2.30E-01 | 6.80E-01 | 3E-01 | 9E-02 | 3E-01 | 1E-01 | 6E-01 |
| | **Barium** | 0.00E+00 | 0.00E+00 | 5.32E-03 | 3.54E-02 | 2.63E-01 | 0.00E+00 | 1.00E-02 | 4.54E+00 | 7.44E-01 | 5.28E+00 | 5.29E+00 | 5.18E+01 | 1.21E+02 | 9E-02 | 4E-02 | 1E-02 | 6E-03 | 1E-01 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.45E-02 | 4.95E-02 | 0.00E+00 | 1.49E-03 | 2.09E-01 | 2.69E-02 | 2.35E-01 | 2.37E-01 | 2.40E+00 | 2.82E+00 | 9E-02 | 7E-02 | 1E-02 | 1E-02 | 1E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 1.21E-02 | 1.25E-03 | 2.47E-02 | 0.00E+00 | 1.01E-03 | 1.32E-01 | 8.34E-02 | 2.15E-01 | 2.16E-01 | 7.33E+00 | 1.00E+01 | 2E-02 | 1E-02 | 1E-02 | 8E-03 | 3E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 4.11E-04 | 3.32E-03 | 6.42E-02 | 0.00E+00 | 5.59E-03 | 6.94E-01 | 1.55E-02 | 7.10E-01 | 7.15E-01 | 4.70E+00 | 8.90E+00 | 1E-01 | 8E-02 | 3E-03 | 2E-03 | 2E-01 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 1.14E-03 | 4.51E-04 | 9.76E-03 | 0.00E+00 | 3.57E-05 | 2.37E-02 | 3.03E-03 | 2.67E-02 | 2.67E-02 | 7.50E-02 | 1.50E-01 | 3E-01 | 2E-01 | 4E-02 | 2E-02 | 4E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 4.83E-03 | 1.30E-03 | 5.21E-02 | 0.00E+00 | 1.42E-03 | 1.13E-01 | 1.17E-02 | 1.25E-01 | 1.27E-01 | 4.16E+00 | 8.31E+00 | 3E-02 | 1E-02 | 3E-03 | 1E-03 | 3E-02 |
| **Raccoon - 2** | **tPCB** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E-02 | 0.00E+00 | 2.80E-03 | 1.30E-05 | 7.83E-02 | 3.94E-01 | 4.73E-01 | 4.73E-01 | 2.30E-01 | 6.80E-01 | 3E-01 | 1E-01 | **2E+00** | 6E-01 | **2E+00** |
| | **Barium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 2.38E-01 | 1.00E-02 | 2.21E-01 | 1.65E+00 | 1.87E+00 | 1.88E+00 | 5.18E+01 | 1.21E+02 | 4E-03 | 2E-03 | 3E-02 | 1E-02 | 4E-02 |
| | **Chromium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-02 | 0.00E+00 | 6.12E-02 | 1.49E-03 | 2.39E-02 | 2.16E-01 | 2.40E-01 | 2.42E-01 | 2.40E+00 | 2.82E+00 | 1E-02 | 8E-03 | 9E-02 | 8E-02 | 1E-01 |
| | **Cobalt** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-03 | 0.00E+00 | 2.18E-02 | 1.01E-03 | 7.96E-02 | 2.75E-01 | 3.54E-01 | 3.55E-01 | 7.33E+00 | 1.00E+01 | 1E-02 | 8E-03 | 4E-02 | 3E-02 | 5E-02 |
| | **Lead** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 5.77E-02 | 5.59E-03 | 2.71E-02 | 1.38E-01 | 1.65E-01 | 1.71E-01 | 4.70E+00 | 8.90E+00 | 6E-03 | 3E-03 | 3E-02 | 2E-02 | 4E-02 |
| | **Mercury** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 0.00E+00 | 2.70E-03 | 3.57E-05 | 8.41E-04 | 1.56E-02 | 1.65E-02 | 1.65E-02 | 7.50E-02 | 1.50E-01 | 1E-02 | 6E-03 | 2E-01 | 1E-01 | 2E-01 |
| | **Vanadium** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-03 | 0.00E+00 | 4.75E-02 | 1.42E-03 | 3.19E-02 | 8.24E-02 | 1.14E-01 | 1.16E-01 | 4.16E+00 | 8.31E+00 | 8E-03 | 4E-03 | 2E-02 | 1E-02 | 3E-02 |

**Table E3-186**

**Wildlife Risk Calculations Based on Measured Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**LAA, Subarea Soil - Riparian**

**Anniston PCB Site, Anniston, Alabama**

| | | Hazard Quotients | | |
|---|---|---|---|---|
| **Aquatic Receptors** | **COPC** | **LOAEL HQ (excluding water)** | **NOAEL HQ (including water)** | **LOAEL HQ (including water)** |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 7E-01 | **1E+00** | 7E-01 |
| | **Chromium** | 1E+00 | 1E+00 | 1E+00 |
| | **Cobalt** | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | **4E+00** | **7E+00** | **4E+00** |
| | **Mercury** | **5E+00** | **1E+01** | **5E+00** |
| | **Vanadium** | **2E+00** | **5E+00** | **2E+00** |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **5E+00** | **1E+01** | **5E+00** |
| **GBH - mid** | **tPCB-med** | **6E+00** | **2E+01** | **6E+00** |
| | **Barium** | 8E-02 | 2E-01 | 8E-02 |
| | **Chromium** | 3E-01 | 4E-01 | 3E-01 |
| | **Cobalt** | 2E-02 | 2E-02 | 2E-02 |
| | **Lead** | 7E-02 | 1E-01 | 7E-02 |
| | **Mercury** | **3E+00** | **8E+00** | **3E+00** |
| | **Vanadium** | 4E-01 | 8E-01 | 4E-01 |
| **GBH - high** | **tPCB-high** | **7E+01** | **2E+02** | **7E+01** |
| **Mink - 1** | **tPCB-mink** | **8E+00** | **2E+01** | **8E+00** |
| **Mink - 1 (Alternative TRV)** | **tPCB-mink** | **2E+01** | **--** | **2E+01** |
| | **Barium** | 2E-02 | 5E-02 | 2E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 6E-02 | 9E-02 | 7E-02 |
| | **Lead** | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 2E-02 | 4E-02 | 2E-02 |
| **Mink - 2** | **tPCB-mink** | **1E+01** | **3E+01** | **1E+01** |
| **Mink - 2 (Alternative TRV)** | **tPCB-mink** | **3E+01** | **--** | **3E+01** |
| | **Barium** | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 2E-01 | 2E-01 | 2E-01 |
| | **Cobalt** | 9E-02 | 1E-01 | 9E-02 |
| | **Lead** | 1E-02 | 3E-02 | 1E-02 |
| | **Mercury** | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 9E-03 | 2E-02 | 9E-03 |
| **Raccoon - 1** | **tPCB** | 2E-01 | 6E-01 | 2E-01 |
| | **Barium** | 4E-02 | 1E-01 | 4E-02 |
| | **Chromium** | 8E-02 | 1E-01 | 8E-02 |
| | **Cobalt** | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 8E-02 | 2E-01 | 8E-02 |
| | **Mercury** | 2E-01 | 4E-01 | 2E-01 |
| | **Vanadium** | 2E-02 | 3E-02 | 2E-02 |
| **Raccoon - 2** | **tPCB** | 7E-01 | **2E+00** | 7E-01 |
| | **Barium** | 2E-02 | 4E-02 | 2E-02 |
| | **Chromium** | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 4E-02 | 5E-02 | 4E-02 |
| | **Lead** | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 1E-01 | 2E-01 | 1E-01 |
| | **Vanadium** | 1E-02 | 3E-02 | 1E-02 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-187**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**LAA Soil - Combined**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values (mg/kg dw) | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| Mourning Dove - mid | tPCB-med | **8.21E-01** | **1.11E+00** | 1.00E+01 | 1.08E-02 | NA | 1.08E-02 | 4.33E-01 | -- | 4.33E-01 | 2.80E+01 | 6.60E+01 | 2E-02 | 7E-03 | -- | -- | 2E-02 | 7E-03 |
| | Mercury | **9.38E-01** | **1.07E+00** | 8.00E-01 | 3.00E-03 | NA | 3.01E-03 | 9.61E-03 | -- | 9.63E-03 | 4.40E-01 | 8.00E-01 | 2E-02 | 1E-02 | -- | -- | 2E-02 | 1E-02 |
| Mourning Dove - high | tPCB-high | **8.21E-01** | **1.11E+00** | 1.00E+01 | 1.08E-02 | NA | 1.08E-02 | 4.33E-01 | -- | 4.33E-01 | 2.10E+00 | 4.50E+00 | 2E-01 | 1E-01 | -- | -- | 2E-01 | 1E-01 |
| Blue Jay - mid | tPCB-med | **8.21E-01** | **1.11E+00** | 1.00E+01 | 1.20E-02 | NA | 1.20E-02 | 4.81E-01 | -- | 4.81E-01 | 2.80E+01 | 6.60E+01 | 2E-02 | 7E-03 | -- | -- | 2E-02 | 7E-03 |
| | Mercury | **9.38E-01** | **1.07E+00** | 8.00E-01 | 5.12E-03 | NA | 5.13E-03 | 1.64E-02 | -- | 1.64E-02 | 4.40E-01 | 8.00E-01 | 4E-02 | 2E-02 | -- | -- | 4E-02 | 2E-02 |
| Blue Jay - high | tPCB-high | **8.21E-01** | **1.11E+00** | 1.00E+01 | 1.20E-02 | NA | 1.20E-02 | 4.81E-01 | -- | 4.81E-01 | 2.10E+00 | 4.50E+00 | 2E-01 | 1E-01 | -- | -- | 2E-01 | 1E-01 |
| Carolina Wren - 1 - mid | tPCB-med | **8.21E-01** | **1.11E+00** | 1.00E+01 | 8.51E-03 | NA | 8.51E-03 | 3.41E-01 | -- | 3.41E-01 | 2.80E+01 | 6.60E+01 | 1E-02 | 5E-03 | -- | -- | 1E-02 | 5E-03 |
| | Mercury | **9.38E-01** | **1.07E+00** | 8.00E-01 | 5.08E-03 | NA | 5.08E-03 | 1.63E-02 | -- | 1.63E-02 | 4.40E-01 | 8.00E-01 | 4E-02 | 2E-02 | -- | -- | 4E-02 | 2E-02 |
| Carolina Wren - 1 - high | tPCB-high | **8.21E-01** | **1.11E+00** | 1.00E+01 | 8.51E-03 | NA | 8.51E-03 | 3.41E-01 | -- | 3.41E-01 | 2.10E+00 | 4.50E+00 | 2E-01 | 8E-02 | -- | -- | 2E-01 | 8E-02 |
| Carolina Wren - 2 - mid | tPCB-med | **8.21E-01** | **1.11E+00** | 1.00E+01 | 3.28E-03 | 7.18E-03 | 1.05E-02 | 1.31E-01 | 2.87E-01 | 4.18E-01 | 2.80E+01 | 6.60E+01 | 5E-03 | 2E-03 | 1E-02 | 4E-03 | 1E-02 | 6E-03 |
| | Mercury | **9.38E-01** | **1.07E+00** | 8.00E-01 | 2.17E-03 | 3.19E-03 | 5.36E-03 | 6.95E-03 | 1.02E-02 | 1.71E-02 | 4.40E-01 | 8.00E-01 | 2E-02 | 9E-03 | 2E-02 | 1E-02 | 4E-02 | 2E-02 |
| Carolina Wren - 2 - high | tPCB-high | **8.21E-01** | **1.11E+00** | 1.00E+01 | 3.28E-03 | 7.18E-03 | 1.05E-02 | 1.31E-01 | 2.87E-01 | 4.18E-01 | 2.10E+00 | 4.50E+00 | 6E-02 | 3E-02 | 1E-01 | 6E-02 | 2E-01 | 9E-02 |
| Hawk - mid | tPCB-med | **8.21E-01** | **1.11E+00** | 1.00E+01 | 1.47E-01 | 3.18E-01 | 4.65E-01 | 5.88E+00 | 1.27E+01 | 1.86E+01 | 2.80E+01 | 6.60E+01 | 2E-01 | 9E-02 | 5E-01 | 2E-01 | 7E-01 | 3E-01 |
| | Mercury | **9.38E-01** | **1.07E+00** | 8.00E-01 | 1.47E-02 | 1.84E-02 | 3.31E-02 | 4.70E-02 | 5.90E-02 | 1.06E-01 | 4.40E-01 | 8.00E-01 | 1E-01 | 6E-02 | 1E-01 | 7E-02 | 2E-01 | 1E-01 |
| Hawk - high | tPCB-high | **8.21E-01** | **1.11E+00** | 1.00E+01 | 1.47E-01 | 3.18E-01 | 4.65E-01 | 5.88E+00 | 1.27E+01 | 1.86E+01 | 2.10E+00 | 4.50E+00 | **3E+00** | **1E+00** | **6E+00** | **3E+00** | **9E+00** | **4E+00** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-188**
**Wildlife Risk Calculations Based on Tissue Toxicity Reference Values**
**LAA, Aquatic and Subarea Soil - Riparian**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC | Sediment EPC | Bird Egg Tissue EPCs (mg/kg dw) | | | | | | | Toxicity Reference Values (mg/kg dw) | | HQs (unitless) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bird Egg | | Bird Egg | | | | | |
| | | | | Bird Egg Tco (d/kg ww) | Soil Dietary Intake (mg/d) | Sediment Dietary Intake (mg/d) | Total Dietary Intake (mg/d) | EPC from Soil | EPC from Sediment | Total EPC | Bird Egg NOAEL | Bird Egg LOAEL | SOIL Bird Egg NOAEL | SOIL Bird Egg LOAEL | SEDIMENT Bird Egg NOAEL | SEDIMENT Bird Egg LOAEL | Bird Egg NOAEL | Bird Egg LOAEL |
| **Tree Swallow - mid** | **tPCB-med** | **1.83E+00** | **1.11E+00** | 1.00E+01 | NA | 3.15E-03 | 3.15E-03 | -- | 1.26E-01 | 1.26E-01 | 2.80E+01 | 6.60E+01 | -- | -- | 5E-03 | 2E-03 | 5E-03 | 2E-03 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | 8.00E-01 | NA | 7.17E-04 | 7.19E-04 | -- | 2.29E-03 | 2.30E-03 | 4.40E-01 | 8.00E-01 | -- | -- | 5E-03 | 3E-03 | 5E-03 | 3E-03 |
| **Tree Swallow - high** | **tPCB-high** | **1.83E+00** | **1.11E+00** | 1.00E+01 | NA | 3.15E-03 | 3.15E-03 | -- | 1.26E-01 | 1.26E-01 | 2.10E+00 | 4.50E+00 | -- | -- | 6E-02 | 3E-02 | 6E-02 | 3E-02 |
| **Spotted Sandpiper - 1 - mid** | **tPCB-med** | **1.83E+00** | **1.11E+00** | 1.00E+01 | 3.21E-02 | 3.21E-03 | 3.53E-02 | 1.28E+00 | 1.28E-01 | 1.41E+00 | 2.80E+01 | 6.60E+01 | 5E-02 | 2E-02 | 5E-03 | 2E-03 | 5E-02 | 2E-02 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | 8.00E-01 | 2.46E-02 | 1.97E-03 | 2.66E-02 | 7.88E-02 | 6.31E-03 | 8.51E-02 | 4.40E-01 | 8.00E-01 | 2E-01 | 1E-01 | 1E-02 | 8E-03 | 2E-01 | 1E-01 |
| **Spotted Sandpiper - 1 - high** | **tPCB-high** | **1.83E+00** | **1.11E+00** | 1.00E+01 | 3.21E-02 | 3.21E-03 | 3.53E-02 | 1.28E+00 | 1.28E-01 | 1.41E+00 | 2.10E+00 | 4.50E+00 | 6E-01 | 3E-01 | 6E-02 | 3E-02 | 7E-01 | 3E-01 |
| **Spotted Sandpiper - 2 - mid** | **tPCB-med** | **1.83E+00** | **1.11E+00** | 1.00E+01 | NA | 2.30E-01 | 2.30E-01 | -- | 9.22E+00 | 9.22E+00 | 2.80E+01 | 6.60E+01 | -- | -- | 3E-01 | 1E-01 | 3E-01 | 1E-01 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | 8.00E-01 | NA | 6.81E-03 | 6.81E-03 | -- | 2.18E-02 | 2.18E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 5E-02 | 3E-02 | 5E-02 | 3E-02 |
| **Spotted Sandpiper - 2 - high** | **tPCB-high** | **1.83E+00** | **1.11E+00** | 1.00E+01 | NA | 2.30E-01 | 2.30E-01 | -- | 9.22E+00 | 9.22E+00 | 2.10E+00 | 4.50E+00 | -- | -- | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| **Kingfisher - 1 - mid** | **tPCB-med** | **1.83E+00** | **1.11E+00** | 1.00E+01 | NA | 5.00E-01 | 5.00E-01 | -- | 2.00E+01 | 2.00E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 7E-01 | 3E-01 | 7E-01 | 3E-01 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | 8.00E-01 | NA | 1.19E-02 | 1.19E-02 | -- | 3.82E-02 | 3.82E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 9E-02 | 5E-02 | 9E-02 | 5E-02 |
| **Kingfisher - 1 - high** | **tPCB-high** | **1.83E+00** | **1.11E+00** | 1.00E+01 | NA | 5.00E-01 | 5.00E-01 | -- | 2.00E+01 | 2.00E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Kingfisher - 2 - mid** | **tPCB-med** | **1.83E+00** | **1.11E+00** | 1.00E+01 | NA | 3.86E-01 | 3.86E-01 | -- | 1.54E+01 | 1.54E+01 | 2.80E+01 | 6.60E+01 | -- | -- | 6E-01 | 2E-01 | 6E-01 | 2E-01 |
| | **Mercury** | **3.87E+00** | **1.07E+00** | 8.00E-01 | NA | 1.07E-02 | 1.07E-02 | -- | 3.43E-02 | 3.43E-02 | 4.40E-01 | 8.00E-01 | -- | -- | 8E-02 | 4E-02 | 8E-02 | 4E-02 |
| **Kingfisher - 2 - high** | **tPCB-high** | **1.83E+00** | **1.11E+00** | 1.00E+01 | NA | 3.86E-01 | 3.86E-01 | -- | 1.54E+01 | 1.54E+01 | 2.10E+00 | 4.50E+00 | -- | -- | **7E+00** | **3E+00** | **7E+00** | **3E+00** |
| **GBH - mid** | **tPCB-med** | **1.83E+00** | **1.11E+00** | 1.00E+01 | 1.17E-02 | 9.52E+00 | 9.53E+00 | 4.66E-01 | 3.81E+02 | 3.81E+02 | 2.80E+01 | 6.60E+01 | 2E-02 | 7E-03 | **1E+01** | **6E+00** | **1E+01** | **6E+00** |
| | **Mercury** | **3.87E+00** | **1.07E+00** | 8.00E-01 | 2.17E-03 | 2.45E-01 | 2.47E-01 | 6.95E-03 | 7.83E-01 | 7.90E-01 | 4.40E-01 | 8.00E-01 | 2E-02 | 9E-03 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **GBH - high** | **tPCB-high** | **1.83E+00** | **1.11E+00** | 1.00E+01 | 1.17E-02 | 9.52E+00 | 9.53E+00 | 4.66E-01 | 3.81E+02 | 3.81E+02 | 2.10E+00 | 4.50E+00 | 2E-01 | 1E-01 | **2E+02** | **8E+01** | **2E+02** | **8E+01** |
| **Osprey - mid** | **tPCB-med** | **1.83E+00** | **1.11E+00** | 1.00E+01 | NA | 2.81E+00 | 2.81E+00 | -- | 1.12E+02 | 1.12E+02 | 2.80E+01 | 6.60E+01 | -- | -- | **4E+00** | **2E+00** | **4E+00** | **2E+00** |
| | **Mercury** | **3.87E+00** | **1.07E+00** | 8.00E-01 | NA | 6.70E-02 | 6.71E-02 | -- | 2.15E-01 | 2.15E-01 | 4.40E-01 | 8.00E-01 | -- | -- | 5E-01 | 3E-01 | 5E-01 | 3E-01 |
| **Osprey - high** | **tPCB-high** | **1.83E+00** | **1.11E+00** | 1.00E+01 | NA | 2.81E+00 | 2.81E+00 | -- | 1.12E+02 | 1.12E+02 | 2.10E+00 | 4.50E+00 | -- | -- | **5E+01** | **2E+01** | **5E+01** | **2E+01** |

**Notes:**
COPC = constituent of potential concern
d/kg ww = days per kilogram wet weight
EPC = exposure point concentration
LOAEL = lowest observed adverse effect level
mg/kg dw = milligram per kilogram dry weight
-- = not applicable
NA = not available
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
Tco = transfer coefficient
**Bold indicates hazard quotients greater than 1**

**Table E3-128**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C7, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|
| | | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2E-01 | 9E-01 | 3E-01 | 9E-01 | 3E-01 |
| | **Barium** | 6E-02 | 6E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Chromium** | 4E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 1E-01 | 6E-01 | 6E-01 | 6E-01 | 6E-01 |
| | **Lead** | 2E-01 | **2E+00** | 9E-01 | **2E+00** | 9E-01 |
| | **Mercury** | **2E+00** | **9E+00** | **3E+00** | **9E+00** | **3E+00** |
| | **Vanadium** | 6E-01 | **6E+00** | **3E+00** | **6E+00** | **3E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **2E+00** | **1E+01** | **3E+00** | **1E+01** | **3E+00** |
| **Hawk - mid** | **tPCB-med** | 2E-01 | 8E-01 | 3E-01 | 8E-01 | 3E-01 |
| | **Barium** | 5E-03 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Chromium** | 6E-02 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 3E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 2E-02 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Mercury** | 2E-01 | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Vanadium** | 2E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **2E+00** | **8E+00** | **3E+00** | **8E+00** | **3E+00** |
| **Raccoon - 1** | **tPCB** | 4E-02 | 2E-01 | 8E-02 | 2E-01 | 8E-02 |
| | **Barium** | 5E-03 | 6E-02 | 2E-02 | 6E-02 | 2E-02 |
| | **Chromium** | 8E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 8E-03 | 5E-02 | 4E-02 | 5E-02 | 4E-02 |
| | **Lead** | 9E-04 | 5E-02 | 3E-02 | 6E-02 | 3E-02 |
| | **Mercury** | 1E-02 | 1E-01 | 7E-02 | 1E-01 | 7E-02 |
| | **Vanadium** | 1E-03 | 5E-02 | 2E-02 | 5E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | 5E-02 | **1E+00** | 4E-01 | **1E+00** | 4E-01 |
| | **Barium** | 1E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Chromium** | 3E-02 | 8E-01 | 7E-01 | 8E-01 | 7E-01 |
| | **Cobalt** | 5E-03 | 3E-01 | 2E-01 | 3E-01 | 2E-01 |
| | **Lead** | 5E-03 | 5E-01 | 2E-01 | 5E-01 | 2E-01 |
| | **Mercury** | 3E-02 | **2E+00** | 8E-01 | **2E+00** | 8E-01 |
| | **Vanadium** | 5E-03 | 4E-01 | 2E-01 | 4E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table E3-144**

**Wildlife Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Reach C8, Subarea Soil - North**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | | Hazard Quotients | | | |
|---|---|---|---|---|---|---|
| | | Sediment LOAEL HQ (excluding water) | NOAEL HQ (excluding water) | LOAEL HQ (excluding water) | NOAEL HQ (including water) | LOAEL HQ (including water) |
| **Carolina Wren - 2 - mid** | **tPCB-med** | 2E-01 | **2E+00** | 5E-01 | **2E+00** | 5E-01 |
| | **Barium** | 6E-02 | 5E-01 | 3E-01 | 6E-01 | 3E-01 |
| | **Chromium** | 4E-01 | **1E+00** | **1E+00** | **1E+00** | **1E+00** |
| | **Cobalt** | 1E-01 | 5E-01 | 5E-01 | 5E-01 | 5E-01 |
| | **Lead** | 2E-01 | **1E+00** | 7E-01 | **1E+00** | 7E-01 |
| | **Mercury** | **2E+00** | **3E+01** | **8E+00** | **3E+01** | **8E+00** |
| | **Vanadium** | 6E-01 | **5E+00** | **2E+00** | **5E+00** | **2E+00** |
| **Carolina wren - 2 - high** | **tPCB-high** | **3E+00** | **2E+01** | **6E+00** | **2E+01** | **6E+00** |
| **Hawk - mid** | **tPCB-med** | 2E-01 | 1E+00 | 3E-01 | 1E+00 | 3E-01 |
| | **Barium** | 5E-03 | 1E-01 | 6E-02 | 1E-01 | 6E-02 |
| | **Chromium** | 6E-02 | 3E-01 | 3E-01 | 3E-01 | 3E-01 |
| | **Cobalt** | 3E-02 | 2E-01 | 2E-01 | 2E-01 | 2E-01 |
| | **Lead** | 2E-02 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Mercury** | 2E-01 | **4E+00** | **1E+00** | **4E+00** | **1E+00** |
| | **Vanadium** | 2E-01 | **2E+00** | 1E+00 | **2E+00** | 1E+00 |
| **Hawk - high** | **tPCB-high** | **2E+00** | **1E+01** | **4E+00** | **1E+01** | **4E+00** |
| **Raccoon - 1** | **tPCB** | 5E-02 | 4E-01 | 1E-01 | 4E-01 | 1E-01 |
| | **Barium** | 5E-03 | 6E-02 | 2E-02 | 6E-02 | 2E-02 |
| | **Chromium** | 8E-03 | 1E-01 | 9E-02 | 1E-01 | 9E-02 |
| | **Cobalt** | 8E-03 | 3E-02 | 2E-02 | 3E-02 | 2E-02 |
| | **Lead** | 9E-04 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| | **Mercury** | 1E-02 | 7E-01 | 4E-01 | 7E-01 | 4E-01 |
| | **Vanadium** | 1E-03 | 4E-02 | 2E-02 | 4E-02 | 2E-02 |
| **Shrew - 2** | **tPCB** | 6E-02 | **3E+00** | **1E+00** | **3E+00** | **1E+00** |
| | **Barium** | 1E-03 | 2E-01 | 9E-02 | 2E-01 | 9E-02 |
| | **Chromium** | 3E-02 | 9E-01 | 7E-01 | 9E-01 | 7E-01 |
| | **Cobalt** | 5E-03 | 2E-01 | 1E-01 | 2E-01 | 1E-01 |
| | **Lead** | 5E-03 | 3E-01 | 2E-01 | 4E-01 | 2E-01 |
| | **Mercury** | 3E-02 | **7E+00** | **4E+00** | **7E+00** | **4E+00** |
| | **Vanadium** | 5E-03 | 3E-01 | 1E-01 | 3E-01 | 2E-01 |

**Notes:**
COPC = constituent of potential concern
dw = dry weight
EPC = exposure point concentration
kg = kilogram
kg dw/kg-day = kilograms dry weight per kilograms per day
LOAEL = lowest observed adverse effect level
mg/kg = milligram per kilogram
mg/L = milligram per liter
NOAEL = no observed adverse effect level
OU = Operable Unit
tPCB = total polychlorinated biphenyl
TRV = toxicity reference value
**Bold indicates hazard quotients greater than 1**

# APPENDIX F

## Dioxin Toxic Equivalent Assessment

ARCADIS Design & Consultancy for natural and built assets

Pharmacia LLC and Solutia Inc.

# BASELINE ECOLOGICAL RISK ASSESSMENT FOR OPERABLE UNIT 4

## Appendix F – Dioxin Toxic Equivalent Assessment

Anniston PCB Site, Anniston, Alabama

October 2016

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Figure F-1 TEQ Sample Locations

Figure F-2 Summary of TEQ Hazard Quotients (provided electronically)

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Attachment F1 Bioaccumulation Factor/Model Development for PCDDs/PCDFs and DL-PCBs

Attachment F2 Modeled Tissue TEQ Calculations

Attachment F3 TEQ Food Web Models

# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| 95%UCL | 95 percent upper confidence limit |
| AA | assessment area |
| ADD | average dietary dose |
| AHR | aryl hydrocarbon receptor |
| Arcadis | Arcadis U.S., Inc. |
| BAF | bioaccumulation factor |
| $BAF_i$ | bioaccumulation factor for individual tissue samples |
| BBL | Blasland, Bouck, & Lee |
| BERA | baseline ecological risk assessment |
| BSA | biological sampling area |
| COPC | constituent of potential concern |
| CTC | critical tissue concentration |
| DL-PCB | dioxin-like polychlorinated biphenyl |
| DLC | dioxin-like compound |
| dw | dry weight |
| EPC | exposure point concentration |
| HHRA | human health risk assessment |
| HQ | hazard quotient |
| kg | kilogram |
| kg dw/kg BW-d | kilograms of dry weight per kilogram of body weight per day |
| KM | Kaplan-Meier |
| LAA | lower assessment area |
| LBD | ligand binding domain |
| LOAEL | lowest observed adverse effect level |
| LOER | lowest observable effect residue |
| LR50 | lethal residues with 50 percent mortality |
| ND | non-detect |
| ng/kg BW-d | nanograms per gram body weight per day |
| ng/g BW-week | nanograms per gram body weight per week |

| | |
|---|---|
| ng/kg, dw | nanograms per kilogram, dry weight |
| NOAEL | no observed adverse effect level |
| NOER | no observable effect residue |
| OU | operable unit |
| PCB | polychlorinated biphenyl |
| PCDD | polychlorinated dibenzodioxin |
| PCDF | polychlorinated dibenzofuran |
| PeCDF | pentachlorodibenzofuran |
| RL | reporting limit |
| SLERA | screening level ecological risk assessment |
| TCDD | tetrachlorodibenzo-*p*-dioxin |
| TCDF | tetrachlorodibenzofuran |
| TCos | transfer coefficients |
| TEF | toxic equivalency factor |
| TEQ | toxic equivalent |
| TRV | toxicity reference value |
| TU | toxic unit |
| USACE | United States Army Corps of Engineers |
| USEPA | United States Environmental Protection Agency |
| ww | wet weight |
| µg/kg | microgram per kilogram |
| µg/kg dw | microgram per kilogram dry weight |
| % | percent |

# 1 INTRODUCTION

In October 2005, Solutia Inc. and Pharmacia LLC completed a *Screening Level Ecological Risk Assessment for Operable Unit 4* (OU-4 SLERA; Blasland, Bouck, & Lee [BBL] 2005) at the Anniston Polychlorinated Biphenyl (PCB) Site (the Site). The SLERA concluded that exposure pathways for persistent bioaccumulative compounds exist for organisms that obtain their food from Choccolocco and lower Snow Creeks and their associated floodplains, and a baseline ecological risk assessment (BERA) would be required. Sediment and diet were identified as the primary pathways for exposure of fish, invertebrates, and wildlife to persistent bioaccumulative compounds. In addition, the surface soil pathway was concluded to be complete for passerine birds, reptiles, amphibians, omnivorous and carnivorous mammals, and raptors frequenting the floodplain areas.

The United States Environmental Protection Agency (USEPA) has requested consideration of potential risk associated with several constituents in addition to PCBs at OU-4, including risk from exposure to polychlorinated dibenzodioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) as 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD, or dioxin) toxic equivalents (TEQs). This *Dioxin Toxic Equivalent Assessment* included as an appendix to the *Baseline Ecological Risk Assessment for Operable Unit 4* (OU-4 BERA) evaluates dioxin-like compounds (DLCs), including PCDD/PCDF and dioxin-like PCB (DL-PCB) congeners, that contribute to TEQ concentrations in OU-4. Food web modeling and toxicity reference values (TRVs) from the scientific literature were used to calculate hazard quotients (HQs) for TEQs. Additionally, tissue-based HQs were calculated for fish.

The exposure and effects assumptions referenced in this appendix are consistent with the assumptions for other constituents of potential concern (COPCs) evaluated in the OU-4 BERA, with the following exceptions: 1) risks were estimated using no observed adverse effect level (NOAEL) TRVs only; 2) literature-derived bioaccumulation factors (BAFs) were used for terrestrial invertebrates due to lack of site-specific data; and 3) bird egg HQs were not calculated due to the high degree of uncertainty in that evaluation (described below in Section 5). Congener-specific BAFs were used to estimate prey tissue exposure point concentrations (EPCs). The same wildlife receptors were evaluated in this TEQ assessment and the OU-4 BERA, with the exception of benthic invertebrates. Benthic invertebrates are believed to lack a functional aryl hydrocarbon receptor (AHR) and studies on invertebrates, while limited, indicate they are not susceptible to the effects of dioxin (Davies 1999). The general methodology employed to estimate risk using food web modeling is also consistent with that used to calculate HQs for other COPCs in the OU-4 BERA. An evaluation of OU-4 relative to background conditions is also provided herein. Because of the small dataset available and the use of NOAEL TRVs, this TEQ assessment is considered to be equivalent to a screening level estimation of risk, and the resulting risk estimates have a large degree of associated uncertainty, related primarily to estimation of bioaccumulation of DLCs into biotic tissues.

## 1.1 Approach to Calculating TEQ

TCDD and PCDDs/PCDFs are structurally and toxicologically-related halogenated aromatic hydrocarbons that have a common mechanism of action, involving binding of the chemicals to the AHR. USEPA (2008) recommends that the TEQ component mixture method be used to evaluate ecological risks posed by these compounds, using TCDD as the index chemical. Therefore, ecological hazards associated with

exposure to PCDDs/PCDFs are evaluated as TCDD TEQs throughout this assessment. Table F-1 presents summary statistics for PCDD/PCDF and DL-PCB congeners, as well as PCDD/PCDF, DL-PCB, and total (PCDD/PCDF + DL-PCB) TEQs for Choccolocco Creek sediment. Surface soil summary statistics for congeners and TEQs for the floodplain areas are presented in Table F-2.

TEQs were calculated using the avian, mammalian, and fish toxic equivalency factors (TEFs) from the World Health Organization (Van den Berg et al. 1998 and 2006, as cited in USEPA 2008). TEFs (reproduced from USEPA 2008 and presented in Table F-3) are used to equate the potential toxicity of each PCDD/PCDF congener based on its relative potency to TCDD. The concentration of each congener is multiplied by its TEF, resulting in a TCDD toxic equivalent concentration (i.e., the TEQ). TEQ values for each of the congeners are then summed to derive a total TEQ for each sample. In this assessment, there are three sets of TEFs (mammalian, avian, and fish); therefore, each sediment or soil sample has three TEQ values, depending on the TEFs used in the calculation. For example, the mammalian-derived soil TEQ is used to assess risks to mammalian receptors while the avian soil TEQ concentration is used for bird species.

While PCDDs/PCDFs were identified by USEPA as COPCs, it is important to clarify that this class of compounds does not include DL-PCBs. However, DL-PCBs are often included in the calculation of a TEQ, although there is a substantial amount of uncertainty regarding the use of the TEQ methodology for PCBs. This is particularly true when assessing risks to ecological receptors (Moore et al. 2012). Furthermore, the most significant PCB congeners in terms of “dioxin-like potency,” and therefore significant contributors to the TEQ, are the non-ortho substituted congeners: PCB-77, PCB-81, PCB-126, and PCB-169. These congeners were infrequently detected (PCB-77 and PCB-126) or not detected at all (PCB-81 and PCB-169) in OU-4 floodplain soil and sediment (Appendix E). As evidence of the infrequent nature of the occurrence of these congeners, none of the non-ortho substituted congeners were used in the quantitative estimates of risk for the *OU-4 Human Health Risk Assessment* (HHRA; Avatar 2013). In the HHRA, USEPA concluded that “a regression analysis performed on congeners with low FODs [frequencies of detection] would result in very uncertain predicted congener values, and because of this, only data from the [ortho-substituted] PCB-105, PCB-118, and PCB-156 were included in the analysis” (Avatar 2013).

Thus, inclusion of DL-PCBs in the TEQ analysis, particularly the non-ortho substituted congeners, results in a “very uncertain” estimate of TEQ sediment and soil concentrations. However, although exposure to PCBs is already being assessed as part of the OU-4 BERA, USEPA requested that TEQs be calculated both with and without the inclusion of DL-PCBs. The resulting soil and sediment TEQ concentrations (for PCDD/PCDF TEQ, DL-PCB TEQ, and total TEQ) are provided in Tables F-1 and F-2.

## 1.2 Document Organization

The potential ecological risks posed by PCDDs/PCDFs in sediment and soil are evaluated herein via an assessment that uses the TEQ approach described above. HQs for TEQs were calculated to provide a preliminary risk estimate for resident ecological receptor exposure to PCDDs/PCDFs and DL-PCBs and to provide information to risk managers regarding the need for further ecological investigation related to the presence of PCDDs/PCDFs at OU-4. This assessment includes:

- Exposure Assessment: Derivation of congener-specific BAFs and calculation of EPCs (Section 2)

- Toxicity Assessment: Review of the literature to derive appropriate TEQ-based TRVs for representative ecological receptors (i.e., birds, mammals, and fish) (Section 3)
- OU-4 TEQ Risk Estimation: Calculation of NOAEL HQs and Background Evaluation (Section 4)
- An analysis of the uncertainties associated with this assessment (Section 5)
- References cited (Section 6)

# 2 EXPOSURE ASSESSMENT

Food web modeling was used to calculate average dietary doses (ADDs) for PCDD/PCDF TEQ, DL-PCB TEQ, and total TEQ. Exposure assumptions used in the models are described in this section. Wildlife receptors evaluated in the OU-4 BERA and in this TEQ assessment include fish, eight mammals (white-tailed deer [*Odocoileus virginianus*], short-tailed shrew [*Blarina brevicauda*], raccoon [*Procyon lotor*], red fox [*Vulpes vulpes*], long-tailed weasel [*Mustela frenata*], little brown bat [*Myotis lucifugus*], American mink [*Neovison vison*], and river otter [*Lontra canadensis*]), and nine bird species (mourning dove [*Zenaida macroura*], blue jay [*Cyanocitta cristana*], Carolina wren [*Thryothorus ludovicianus*], red-tailed hawk [*Buteo jamaicensis*], spotted sandpiper [*Actitis macularius*] tree swallow *[Tachycineta bicolor*], belted kingfisher [*Megaceryle alcyon*], great blue heron [*Ardea Herodias*], and American osprey [*Pandion haliaetus*]).

For each receptor, the ADDs were calculated according to the USEPA dietary dose model, as follows:

$$ADD_{pot} = [\sum_{k-1}^{n}(C_k \times FR_k \times NIR_k) + (NIR_s \times COPC_s \times DF_s)] \times SUF$$

Where:

| | |
|---|---|
| $ADD_{pot}$ | Potential average daily dose (nanograms COPC per kilogram body weight per day [ng/kg BW-d]) |
| n | Number of food types |
| $C_k$ | COPC concentration in the kth food type (nanograms per kilogram dry weight [ng/kg dw]). |
| $FR_k$ | Dietary fraction of intake of the kth food type |
| $NIR_k$ | Normalized ingestion rate of the kth food type (kilograms of dry weight of food ingested per kilogram of body weight per day [kg dw/kg BW-d]) |
| $NIR_s$ | Normalized ingestion rate of soil or sediment (kilograms of dry weight of soil/sediment ingested per kilogram of body weight per day [kg dw/kg BW-d]) |
| $COPC_s$ | Exposure Point Concentration in soil/sediment (s) (ng/kg dw) |
| $DF_s$ | Dietary fraction of soil/sediment ingested (range 0 to 1.0) |
| SUF | Site use factor (assumed to be 100%); see Section 4.5.4 of the OU-4 BERA for definition |

Ecological receptors and exposure parameters (e.g., wildlife food ingestion rates, body weights, dietary proportions) used in this assessment are summarized in the OU-4 BERA and are reproduced in Tables F-4a and F-4b for birds and mammals, respectively. Tables F-5a and F-5b provide multiple dietary composition scenarios for specific birds and mammals, respectively. BAFs necessary to estimate prey tissue TEQ concentrations, as well as biotic and abiotic EPCs used in the food web models are presented below.

## 2.1 Calculation of Congener-Specific Bioaccumulation Factors

BAFs were calculated using site data for individual PCDD/PCDF and DL-PCB congeners using methodology described in Section 4.4 of the OU-4 BERA, with exceptions noted below. The congener-specific BAF calculations, provided in Attachment F1, were used to estimate PCDD/PCDF TEQs, DL-PCB TEQs, and total TEQs (including DL-PCBs) in receptor food items in the food web models, as described below.

### 2.1.1 Site-Specific BAFs and Modeled Prey Tissue Concentrations

BAFs were calculated using methodology similar to that for other COPCs evaluated in the OU-4 BERA, which is described in detail in Appendix B. Briefly, soil/sediment and biota samples were grouped by biological sampling area (BSA). Because of the limited size of the BAF datasets for PCDD/PCDF and DL-PCB congeners, regression analysis and calculation of assessment area (AA) BAFs could not be conducted. As described in Attachment F1, site-wide median BAFs were calculated for individual PCDD/PCDF and DL-PCB congeners using OU-4 sediment, surface soil, and biota data. Detected and nondetect (ND) soil/sediment values within the BSAs were included in the BAF calculations. The mean abiotic media concentration was calculated for each BSA using Kaplan-Meier (KM) statistics to account for any ND results. Only detected concentrations in tissue were included in the BAF calculations. BAFs for individual tissue samples ($BAF_i$s) were calculated based on dry weight values (microgram per kilogram, dry weight [µg/kg, dw]) using the formula:

$$BAFi = \frac{C_{biota}}{C_{sed\ or\ soil}}$$

where:

$BAF_i$ Bioaccumulation factor for individual tissue samples (unitless)

$C_{biota}$ Individual sample congener concentration in biota (µg/kg, dw)

$C_{sed\ or\ soil}$ BSA-specific KM mean concentration in sediment or soil (µg/kg, dw)

The site-wide median of the $BAF_i$ values was selected as the congener-specific BAF for use in the food web model.

In some cases, data were not sufficient to calculate a site-wide median BAF based on data grouped from the same BSA. If a COPC was detected in OU-4 tissue, but data were lacking for soil/sediment in the same BSA, the site-wide average BAF ratio was calculated by dividing the average detected tissue concentration by the average KM mean soil or sediment concentrations in the BSAs. Thus, the site-wide median BAF is based on data grouped in each BSA, and the site-wide average BAF ratio was used when biotic and abiotic data from the same BSA are unavailable and is not based on data grouped by BSA. If a congener was never detected in OU-4 tissue, no BAF was selected and the congener was excluded from the TEQ calculations. As a result, exposure to PCDD/PCDF and DL-PCBs was evaluated based only on congeners detected in OU-4 prey tissues.

BAFs were calculated for each food item for the receptors of concern, including aquatic plants, aquatic emergent and flying insects, reptiles, amphibians, fish, aquatic benthic invertebrates (Odonata larvae),

crayfish, molluscs, small mammals, and terrestrial plants. The selected BAFs are summarized in Table F-6 (refer to Attachment F1 for further discussion of the derivation of these values).

For aquatic oligochaetes, tissue data for PCDDs/PCDFs and DL-PCBs were not available. Consistent with the approach in the OU-4 BERA for non-mercury metals, BAFs for aquatic oligochaetes were based on benthic invertebrate (Odonata) tissue.

Because site-specific data were not available, BAFs for terrestrial invertebrates (grasshoppers/crickets, spiders, and earthworms) were based on literature values. For these prey tissues, BAFs were based on PCDD/PCDF uptake by earthworms from a study by Fagervold et al. (2010). The congener-specific earthworm BAFs (Table F-7) were used to estimate tissue TEQ concentrations.

The selected BAFs were used along with avian, mammalian, and fish TEFs from the World Health Organization (Van den Berg et al. 1998 and 2006, as cited in USEPA 2008) to estimate TEQ concentrations in prey tissues. The PCDD/PCDF TEQ, DL-PCB TEQ, and total TEQ were calculated for prey tissues using the following formula:

$MT_{TEQ}$ (ng/kg dw) = ($C_{sa}$ x $BAF_a$ x $TEF_a$) + ($C_{sb}$ x $BAF_b$ x $TEF_b$) + …($C_{si}$ x $BAF_i$ x $TEF_i$)

where:

| | |
|---|---|
| $MT_{TEQ}$ | Sample-specific modeled tissue TEQ concentration estimated using individual congener BAFs (ng/kg dw) |
| Cs | Concentration of PCDD/PCDF or DL-PCB congener in soil/sediment (ng/kg dw) |
| BAF | Congener-specific bioaccumulation factor (dw; unitless) |
| TEF | Congener-specific toxic equivalency factor (unitless) |

To reduce uncertainty in the prey tissue TEQ concentrations, tissue TEQ concentrations were estimated using the selected BAFs (Tables F-6 and F-7), assuming that all of the ND concentrations in soil/sediment are equal to zero. Uncertainty associated with this assumption is discussed in Section 5.5. Tissue TEQ concentrations were modeled from individual soil/sediment samples, and the 95 percent upper confidence limit (95%UCL) concentration was calculated from the sample-specific $MT_{TEQs}$ for each prey tissue type to represent EPCs. These modeled tissue TEQ concentrations (Attachment F2) were used in the dietary food web calculations and are summarized in Table F-8.

## 2.2 Calculation of Exposure Point Concentrations

EPCs for this TEQ screening assessment were based on 95%UCL concentrations calculated for each of the three OU-4 AAs (upper assessment area, middle assessment area, and lower assessment area [LAA), as defined in Section 2 of the OU-4 BERA. To evaluate receptors that may forage primarily in riparian areas along Choccolocco Creek, EPCs were also calculated for riparian areas, operationally defined by the 100-foot zone on each side of the creek, in each of the AAs, consistent with the approach used in the OU-4 BERA. The sample locations are presented in Figure F-1. Individual congener and TEQ data and corresponding AA and/or riparian area classifications for each sample are presented in Appendix E. Due to the small dataset available for sediment, EPCs for sediment and aquatic tissues are typically based on the maximum concentration in each AA. The EPCs were calculated for biotic and abiotic media, as described below.

### 2.2.1 Soil and Sediment EPCs

For estimation of incidental soil and sediment ingestion in the dietary food web models, avian, mammalian, and fish TEFs from the World Health Organization (Van den Berg et al. 1998 and 2006, as cited in USEPA 2008) were used to calculate TEQ concentrations for OU-4 data (Appendix E), as described in Section 1.1. For sediment, PCDD/PCDF congener data are available for 10 site samples and DL-PCB congener data are available for 12 site sediment samples. Total TEQ concentrations were calculated for 13 site samples, which include nine samples with both PCDD/PCDF and DL-PCB congeners, one sample with only PCDD/PCDF data, and three samples with only DL-PCB data. Additionally, three sediment samples collected from reference locations were analyzed for PCDD/PCDF and DL-PCB congeners (Appendix E). For soil, there are PCDD/PCDF and/or DL-PCB data for 102 surface soil samples (0 to 6 inches) collected from the floodplain[1]. PCDD/PCDF data are available for 100 soil samples, and DL-PCB data are available for 102 samples. Total TEQ concentrations were calculated for 102 samples. The sampling locations are described in the *Phase 2 Field Sampling Plan for Operable Unit 4* (Arcadis U.S., Inc. [Arcadis] 2010) and presented on Figure F-1. Sediment and soil TEQ concentrations were calculated using the available data for PCDDs/PCDFs and DL-PCBs. The resulting sediment TEQ concentrations are reported in Appendix E and summarized by AA in Table F-1. The soil TEQ concentrations are reported in Appendix E and summarized by AA in Table F-2.

Because several congeners routinely were not detected in the sediment and soil samples, a potential area of uncertainty associated with the TEQ calculation is the approach used to handle samples with non-detected (ND) values. For example, PCB-126 was detected in only 11 of 102 floodplain soil samples (10.8 %) and two of 12 sediment samples (16.7%). Two other non-ortho substituted congeners (PCB-81 and PCB-169) were not detected in floodplain soil or sediment samples. The treatment of samples with ND concentrations in the calculations can substantially affect the resulting TEQs. To address this uncertainty, bounding estimates of the TEQ concentrations were calculated. OU-4 sediment and surface soil mean TEQ concentrations were calculated with ND concentrations excluded (i.e., assuming that all of the ND concentrations were zero), with ND concentrations set at the reporting limit (RL), and with PCDDs/PCDFs set at the RL and PCBs at 0.5 x RL (Tables F-1 and F-2 for sediment and soil, respectively). The impact of the ND values is significant when DL-PCBs are included in the TEQ determination. For example, the LAA sediment total TEQ concentration (includes PCDDs, PCDFs and DL-PCBs) using the mammalian TEFs increases by more than 20-fold when 0.5 x RL is used as a substitute for ND PCDD/PCDF and DL-PCB congeners (EPCs based on maximum concentrations are 0.0185 micrograms per kilogram [µg/kg] and 0.392 µg/kg, respectively).

The TEQ EPCs calculated assuming NDs are equal to zero were selected for use in the dietary models. Uncertainty associated with this assumption is discussed in Section 5.

[1] Appendix E contains TEQ data for 106 samples, including seven samples listed as duplicates. Consistent with the BERA, duplicate samples were combined with their respective primary sample for calculation of EPCs. For three of these duplicate samples (located at C4N-37, C4N-53, and C4S-49), the primary sample was not analyzed for PCDD/PCDF or DL-PCB congeners. Therefore, these three samples were treated as primary samples for a total of 102 soil samples in the TEQ dataset.

### 2.2.2 Tissue EPCs

Modeled tissue EPCs for use in the dietary food web models and for calculation of fish tissue HQs were based on AA-wide 95%UCLs, and are presented in Table F-8. PCDD/PCDF, DL-PCB, and total TEQ concentrations were estimated using individual soil and sediment DLC congener data along with congener-specific BAFs for each tissue type, as described above in Section 2.1 and presented in Attachment F2. As noted above, modeled tissue TEQ concentrations were calculated assuming that ND congeners were zero. In a small number of samples (listed below), the modeled tissue TEQ concentration was zero because individual congeners were not detected in abiotic media. In these cases, the individual sample was excluded from the 95%UCL calculation so a calculated TEQ value of 0 did not affect the data distribution and subsequent upper confidence limit (UCL) calculation method. Thus, the number of samples included in the tissue EPCs may differ slightly from the number of soil/sediment samples available to estimate tissue concentrations. This is the case for two sediment samples (CU-006-03 and CU-010-01) and four soil samples (C7N-20, C7N-40, C7S-48, and C7S-57) that have estimated DL-PCB tissue TEQ concentrations of zero. Additionally, one sediment sample (CU-006-03) results in a predator fish PCDD/PCDF TEQ concentration of zero.

# 3 DERIVATION OF TEQ-BASED TRVS AND CRITICAL TISSUE CONCENTRATIONS

Food web modeling and TRVs from the scientific literature were used to calculate HQs for TEQs. Additionally, tissue-based HQs were calculated for fish using modeled fish tissue and critical tissue concentrations (CTCs).

In the derivation of TRVs and CTCs for this assessment, chronic studies were preferentially selected that link dietary exposure concentrations (or tissue residues in the case of fish) with effects that are associated with ecological consequences at the population level. Endpoints considered relevant to populations include significant reductions in survival, growth, or reproduction.

## 3.1 Avian Dietary TRV for Dioxin-Like Compounds

To derive the avian TRV, the literature was reviewed for studies that investigated the effects of dioxin (as TCDD or on a TEQ basis) on avian species. Laboratory and field studies have shown that some bird species are susceptible to PCDD/PCDF exposure, and effects documented include decreased egg production, reduced egg hatching, embryotoxicity, and deformities. Studies relevant to OU-4 ecological receptors are summarized below.

### 3.1.1 Tittabawassee River Study (Fredricks et al. 2011)

Fredricks et al. (2011) studied tree swallows exposed to DLCs along the Tittabawassee River near Midland, Michigan. These researchers observed that tree swallow hatching success and overall productivity through fledging were not statistically different between sites with PCDDs/PCDFs in sediment and floodplain soils and upstream reference areas.

Fredricks et al. (2011) conducted a hazard assessment for tree swallows using dietary TRVs derived from an intraperitoneal injection study conducted using ring-necked pheasants (Nosek et al. 1992). Fredricks et al. (2011) derived dietary TRVs from the Nosek et al. (1992) data by converting the weekly exposure at which adverse effects on pheasant fertility and hatching success were reported (1,000 nanograms of TCDD per kilogram body weight per week [ng/kg BW-week]) to a daily exposure of 140 ng TCDD/kg body weight per day (ng/kg BW-d). Fredricks et al. (2011) interpreted this to be the lowest observed adverse effect level (LOAEL). Adverse effects were not present at the next lowest daily dose (14 ng/kg BW-d), which was considered the NOAEL.

Fredricks et al. (2011) determined food web-based TEQ doses (34 to 630 ng/kg BW-d calculated from measured invertebrate residues) and bolus-based dietary doses (24 to 800 ng/kg BW-d) for tree swallows breeding in contaminated Tittabawassee River floodplains (Supplemental Data, Table S2 in the Fredricks et al. 2011 study). No effects on tree swallow hatching success and productivity were observed at the highest dose, 800 ng TCDD/kg BW-d; therefore, this can be considered an unbounded dietary NOAEL.

The estimated TEQ doses from the Fredricks et al. (2011) study (24 to 800 ng/kg BW-d) are greater than the NOAEL TRV derived from the Nosek et al. (1992) study (14 ng/kg BW-d), and the maximum dietary doses (630 and 800 ng/kg BW-d) are also greater than the LOAEL TRV (140 ng/kg BW-d), while the reference-area dietary exposures are lower than both TRVs. Despite exceeding the TRVs derived from

the Nosek et al. (1992) study, there were no statistically significant differences in population-level responses (i.e., overall productivity through fledging) between Tittabawassee River tree swallows and those from reference sites. This suggests the TRVs derived from the Nosek et al. (1992) pheasant study are overly conservative for tree swallows. This conclusion is supported by Fredricks et al. (2011), which states “TRVs based on intraperitoneal injections of TCDD in hen ring-necked pheasants would be expected to over-estimate effects thresholds for tree swallows.”

### 3.1.2 Woonasquatucket River Study (Custer et al. 2005)

In a field study by Custer et al. (2005) at the Woonasquatucket River in Rhode Island, PCCD/PCDF concentrations in eggs, diet, and nestlings and measures of reproductive success were compared to contaminated ponds (Allendale and Lyman) and a reference site (Greystone) over two years, 2000 to 2001. Tree swallows at the TCDD-contaminated Allendale and Lyman sites were exposed to and accumulated more TCDD than swallows at the Greystone reference site. The authors reported that approximately 90% of the TEQ was due to the presence of 2,3,7,8-TCDD, indicating that the Woonasquatucket River exposures were primarily from TCDD. A significant reduction in hatching success was observed at the Allendale site, but not at the Lyman site, compared to the Greystone reference area, despite TCDD concentrations of up to 119.5 ng/kg (121 ng TEQ/kg) in the diet of swallows at the Lyman site. Nestling survival was reduced at the Allendale pond in the year 2000 (at 72 ng TEQ/kg in diet), but was unaffected at all ponds in 2001 (maximum TEQ concentration in diet was 226 ng/kg), despite significant differences in PCDD/PCDF concentrations. The authors hypothesized that the nestling mortality observed in 2000 may have been due to a cold period and a dam breach that occurred at the Allendale pond that year (Custer et al. 2005); therefore, the data from 2000 were not relied upon for TRV derivation.

The following table provides the PCDD/PCDF concentrations in diet and TEQ calculations using the data from the Custer et al. (2005) study.

**Concentratons of PCCD/PCDFs in pooled diet samples at the Woonasquatucket River (ng/kg, wet weight)**

| Chemical | TEF | 2000 | | | | 2001 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Allendale | TEQ | Greystone (ref) | TEQ | Allendale | TEQ | Greystone (ref) | TEQ | Lyman | TEQ | Average Allendale/ Lyman |
| 2,3,7,8-TCDD | 1 | 71.4 | 71.4 | ND | | 218.5 | 218.5 | 5.66 | 5.66 | 119.5 | 119.5 | 136 |
| 1,2,3,7,8-PeCDD | 1 | ND | | ND | | 1.97 | 1.97 | ND | | ND | | |
| 1,2,3,4,7,8-HxCDD | 0.05 | ND | | ND | | 1.41 | 0.07 | 0.52 | 0.03 | 0.82 | 0.04 | |
| 1,2,3,6,7,8-HxCDD | 0.01 | 1.48 | 0.01 | 0.80 | 0.01 | 7.34 | 0.07 | 1.85 | 0.02 | 2.22 | 0.02 | |
| 1,2,3,7,8,9-HxCDD | 0.1 | ND | | 0.79 | 0.08 | 1.83 | 0.18 | 0.36 | 0.04 | 0.58 | 0.06 | |
| 1,2,3,4,6,7,8-HpCDD | 0.001 | ND | | ND | | 55.1 | 0.1 | 30.3 | 0.0 | 24.1 | 0.0 | |
| OCDD | 0.0001 | ND | | ND | | 183.9 | 0.0 | 62.0 | 0.0 | 51.1 | 0.0 | |
| 2,3,7,8-TCDF | 1 | 0.86 | 0.86 | 0.70 | 0.70 | 2.24 | 2.24 | 0.49 | 0.49 | 0.92 | 0.92 | |
| 1,2,3,7,8-PeCDF | 0.1 | ND | | ND | | 1.81 | 0.18 | ND | | ND | | |
| 2,3,4,7,8-PeCDF | 1 | ND | | ND | | 1.90 | 1.90 | 0.13 | 0.13 | ND | | |
| 1,2,3,4,7,8-HxCDF | 0.1 | ND | | ND | | 2.81 | 0.28 | 0.64 | 0.06 | 0.61 | 0.06 | |
| 1,2,3,6,7,8-HxCDF | 0.1 | ND | | ND | | 2.54 | 0.25 | 0.41 | 0.04 | 0.41 | 0.04 | |
| 1,2,3,7,8,9-HxCDF | 0.1 | 1.40 | 0.14 | 0.86 | 0.09 | 1.45 | 0.15 | ND | | ND | | |
| 2,3,4,6,7,8-HxCDF | 0.1 | ND | | ND | | 2.26 | 0.23 | ND | | 0.17 | 0.02 | |
| 1,2,3,4,6,7,8-HpCDF | 0.01 | ND | | ND | | 12.9 | 0.1 | 4.21 | 0.04 | 3.20 | 0.03 | |
| 1,2,3,4,7,8,9-HpCDF | 0.01 | ND | | ND | | 0.94 | 0.01 | 0.30 | 0.003 | 0.15 | 0.002 | |
| OCDF | 0.0001 | ND | | ND | | 1.07 | 0.00 | 1.83 | 0.0002 | 0.71 | 0.0001 | |
| 1,2,4,5,7,8-HCX | | ND | | ND | | 126 | | ND | | 202 | | |
| TEQ | | | 72 | | 1 | | 226 | | 7 | | 121 | 140 |

Data from Custer et al. (2005)

The estimated TEQ concentration in diet for tree swallows at the Lyman site in 2001, when survival during the incubation and nestling periods was unaffected, was 121 ng/kg wet weight (ww); this can be considered the dietary NOAEL. Assuming that the moisture content of the invertebrate prey of tree swallows is 80 percent (%), a dry weight-based dietary NOAEL for TEQ of 605 ng/kg was calculated.[2] Using the body weight-normalized tree swallow ingestion rate of 0.24 kilograms (kg) of food per kg BW-d,[3] a dose-based TRV of 145 ng TEQ/kg BW-d was derived.

### 3.1.3 Avian Dietary NOAEL-Based TRV

The literature from field studies regarding the effects of TCDD on birds is inconsistent; some studies show no effects at even relatively high concentrations of TCDD in diet, while others show effects at lower levels of exposure. Laboratory studies in which PCDDs/PCDFs have been fed to avian species are limited. In the Tittabawassee River study by Fredricks et al. (2011), no significant differences were found in overall productivity between tree swallows from the study area as compared to reference areas at dietary doses as high as 800 ng TEQ/kg BW-d. In the Woonasquatucket River study by Custer et al. (2005), no adverse effects on hatching success or nestling period were observed at an estimated dietary dose of 145 ng TEQ/kg BW-d.

[2] 121 ng/kg ww ÷ 20% solids in diet = 605 ng/kg dw
[3] Refer to exposure parameters provided in Table F-4a.

The study by Custer et al. (2005) was selected as the basis of the NOAEL-based avian TRV (145 ng TEQ/kg BW-d) for the following reasons:

- The evaluation considered sensitive and population-relevant reproductive endpoints: hatching success and fledging.
- The study was conducted on tree swallow, a species that was selected as a representative receptor at OU-4.
- Custer et al. (2005) reported that nearly 90% of the TEQ in tree swallow eggs and nestling carcass samples was from a single congener—2,3,7,8-TCDD. Thus, this study is specific to the single congener used as the standard for the TEQ method (USEPA 2008).
- The NOAEL TRV derived from the Custer et al. (2005) study (145 ng/kg BW-d) is lower than the unbounded NOAEL TRV derived from the study by Fredricks et al. (2011) (800 ng/kg BW-d), and is therefore considered more conservative.

Similar to mammalian species, most, if not all, biochemical and toxic effects of TCDD and other DLCs in birds are thought to be mediated by the AHR. Data show a link between the adverse effects and a mode of action in which binding and activation of the AHR is the critical initiating event (Denison et al. 2011; Okey 2007). Farmahin et al. (2012, 2013) recently reported that the sensitivity of avian species to the toxic effects of DLCs varies up to 1,000-fold among species. Further, their research and that conducted by others (e.g., Head et al. 2008; Karchner et al. 2006) suggest that this variability has been associated with interspecies differences in the AHR 1 ligand binding domain (AHR1 LBD) sequence.

Farmahin et al. (2013) studied the AHR1 LBD sequences of 86 avian species, and classified birds into three major types based on their sensitivity to the toxic and biochemical effects of DLCs: chicken-like or Group 1 (most sensitive), pheasant-like or Group 2 (intermediate sensitivity, 6-fold lower than Group 1), and quail-like or Group 3 (least sensitive, 35-fold less sensitive than Group 1). Of the nine avian species selected for evaluation in the OU-4 BERA, eight were evaluated in the Farmahin et al. (2013) study—mourning dove, blue jay, red-tailed hawk, spotted sandpiper, tree swallow, belted kingfisher, great blue heron, and osprey. The mourning dove, blue jay, spotted sandpiper, and tree swallow were placed in Group 2 (intermediate sensitivity), while the red-tailed hawk, belted kingfisher, great blue heron, and osprey were assigned to Group 3 (least sensitive). The Carolina wren, an OU-4 receptor species, was not evaluated by Farmahin et al. (2013), but a related species, the house wren (*Troglodytes aedon*), was included in Group 2. None of the bird species included in the OU-4 BERA were classified as "most sensitive" or Group 1 in the Farmahin et al. (2013) study. This suggests that the Custer et al. (2005) study provides an appropriately protective TRV for Group 2 species, including the mourning dove, blue jay, spotted sandpiper, and tree swallow, but may be overly conservative for and overstate risks to Group 3 species in the assessment—the red-tailed hawk, belted kingfisher, great blue heron, and osprey.

## 3.2 Mammalian Dietary TRV for Dioxin-Like Compounds

As with avian species, the literature was reviewed for studies that evaluated the effects of dioxin (on a TCDD or TEQ basis) on mammals for the derivation of the mammalian TRV. Laboratory studies particularly on mice and rats have shown effects from dioxin exposure including immune system

suppression, increased hepatic porphyria, development of tumors, and reduced sex hormones and decreased fertility.

Previous studies of individual PCDD and PCDF congeners or their mixtures have demonstrated that mink are among the more sensitive mammalian species tested, with effects reported on reproduction, development, and morphological lesions of the jaw (Bursian et al. 2006; Heaton et al. 1995; Restum et al. 1998). Studies on mink jaw lesions suggest that this endpoint is considered a sentinel for adverse effects in mink populations (Ellick et al. 2012; Zwiernik et al. 2009). However, from a population impact perspective, adverse effects on reproduction and development are considered more relevant assessment endpoints. Mink are typically encountered in riparian ecosystems, and studies of mink are more environmentally relevant than those conducted on laboratory species such as mice or rats (e.g., Murray et al. 1979; DeVito et al. 1997), especially with compounds such as PCDDs/PCDFs, which exhibit a high degree of variability in sensitivity among mammalian species. Mink are expected to occur along Choccolocco Creek due to habitat availability, and this species provides a surrogate for the less-sensitive mammals at OU-4 that are being evaluated: white-tailed deer, short-tailed shrew, raccoon, red fox, long-tailed weasel, and little brown bat. The river otter, another OU-4 receptor species, is likely similar to mink in its sensitivity to DLCs, given that both species are semi-aquatic members of the Mustelidae family.

Numerous studies of mink demonstrate the toxicity of DLCs, including PCB-126, in this species. Often studies of these animals are conducted in which co-exposure to PCB-126 and TCDD exists (e.g., Restum et al. 1998), and discriminating the contribution of PCB-126 to the observed adverse effects is difficult if not impossible. Thus, in choosing the study for development of the TCDD-based TRV, one of the primary criterion was that the animals were not co-exposed to PCBs, particularly PCB-126. A recent study by Moore et al. (2012) satisfies this criterion and was selected as the basis for the mammalian TRV.

Moore et al. (2012) investigated the effect of TCDD, 2,3,4,7,8-pentachlorodibenzofuran (PeCDF), and 2,3,7,8-tetrachlorodibenzofuran (TCDF) on mink reproductive success, and offspring viability and growth. Nine adult female mink were assigned randomly to one of 13 dietary treatments: one control and four doses each of TCDD, PeCDF, and TCDF (2.1 to 8.4, 4 to 15, and 5.2 to 25 ng TEQ/kg BW-d, respectively). The mink were dosed from two months prior to breeding through weaning of offspring at six weeks of age. At least nine kits per treatment group were maintained on these diets through 27 weeks of age. No effects on litter size or viability of offspring were observed at any treatment level. In addition, no consistent effects on body mass or relative organ masses were observed. Therefore, this recent study by Moore et al. provides an unbounded NOAEL of 25 ng TEQ/kg BW-d, the highest dose at which no effects were observed. The authors also concluded that the lack of significant effects contrasts with effects reported for mink exposed to environmentally derived PCB mixtures with equivalent TCDD potencies, suggesting that it may be inappropriate to apply TRVs associated with PCB mixtures to animals exposed to TCDD.

Similarly, Zwiernik et al. (2009) exposed mink to TCDF in diet up to 240 ng TEQ/kg ww. These authors reported that doses as high as 30 ng TEQ/kg BW-d[4] did not affect reproduction and kit viability; although, body masses of offspring through 36 weeks of age were decreased compared to controls at various time points in the experiment. The results of this study are supported by a review by Blankenship et al. (2008), which indicated 242 ng TEQ/kg ww as the highest diet-based LOAEL for offspring weight.

[4] Dose calculated using the mink food ingestion rate of 0.125 kg/kg bw-d from Moore et al. (2012).

The study by Moore et al. (2012) was selected as the basis for the derivation of the mammalian TRV (25 ng TEQ/kg BW-d) for the following reasons:

- Mink are likely more sensitive to the effects of PCDDs/PCDFs than are most of the other representative mammalian receptors for OU-4 (see Appendix D for additional information regarding relative sensitivity of mammals): white-tailed deer, short-tailed shrew, raccoon, red fox, long-tailed weasel, and little brown bat. In addition, mink are likely similar to the river otter in sensitivity given that both are semi-aquatic members of the Mustelidae family. Therefore, the Moore et al. (2012) TRV should be adequately protective of these other receptors.
- Mink in this study were exposed only to constituents that are the focus of this assessment: TCDD and PCDDs/PCDFs.
- The study evaluated sensitive and population-relevant endpoints: litter size and viability of offspring.
- The NOAEL-based TRV is supported by the results of other studies in which dietary doses up to 30 ng TEQ/kg BW-d did not affect mink reproduction and kit viability (Zwiernik et al. 2009).

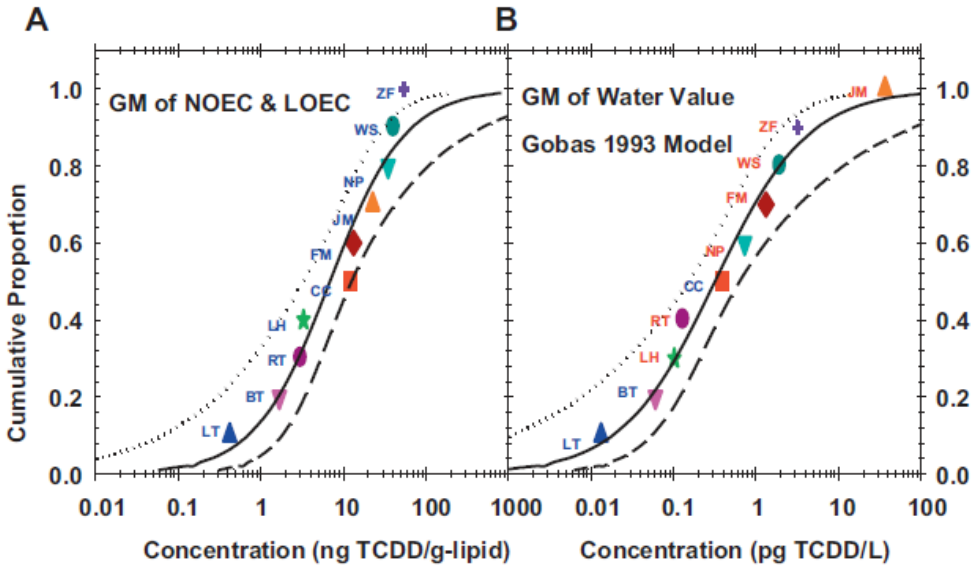
## 3.3 Fish CTC for Dioxin-Like Compounds

A study by Steevens et al. (2005), which establishes benchmark distributions for TCDD and TEQ effect concentrations in fish, was relied upon to develop a fish tissue-based CTC. Steevens et al. (2005) developed a residue effects distribution for fish eggs and embryos, the life stage that is most sensitive to AHR mediated toxicity. Steevens et al. (2005) compiled effects data for different fish species from the United States Army Corps of Engineers (USACE) Residue Effects Database (USACE 2004) and the USEPA Office of Research and Development Effect Residue Database (Jarvinen and Ankley 1999). Residues reported on a whole egg or embryo basis were combined into a species sensitivity distribution based on the geometric means of no observable effect residue (NOER) values and lowest observable effect residue (LOER) values; endpoints included significant reductions in survival, growth, or reproduction (Steevens et al. 2005).

Most of the studies included in the effects distribution were conducted for TCDD, and maternal uptake, transfer to eggs (including egg injection studies), and direct absorption exposure pathways were included in the distribution. Because of the lipophilicity of DLCs, effect residues of TCDD in fish eggs can be related to maternal tissue concentrations after lipid normalization. For nonpolar organic compounds, the ratio of chemical on a lipid-normalized basis was found to be approximately 1:1 egg to adult fish (Russell et al. 1999). Therefore, the egg and embryo effect levels generated from the Steevens et al. analysis (2005) can directly be used to interpret whole-body tissue residues for fish collected at OU-4.

Studies on lake trout (*Salvelinus namaycush*), brook trout (*Salvelinus fontinalis*), rainbow trout (*Oncorhynchus mykiss*), channel catfish (*Ictalurus punctatus*), lake herring (*Coregonus artedi*), fathead minnow (*Pimephales promelas*), Japanese medaka (*Oryzias latipes*), northern pike (*Esox lucius*), white sucker (*Catostomus commersonii*), and zebrafish (*Danio rerio*) were included in the species sensitivity distribution for TCDD, and tissue residue benchmarks were derived by Steevens et al. (2005) to be protective of fish populations. Mean, lower, and upper 95%UCL benchmarks were selected at different species protection levels (i.e., protective of 99, 97.5, 95, or 90% of fish species). The species sensitivity distribution developed by Steevens et al. (2005) incorporates residue effect data for lake trout and other

salmonids that are substantially lower (i.e., more highly sensitive) than residues associated with effects in the other, less-sensitive fish species. Inclusion of the salmonid species in the residue effects curve results in tissue residue benchmarks that are likely overprotective for other fish species. This has been illustrated by Sappington et al. (2011), who compared lethal residues associated with 50% mortality (LR50) among fish species using data from the Steevens et al. analysis (2005) (see figure below).




Fish sensitivity distribution for tissue residues ($LR_{50}$ values) and exposure concentrations ($LC_{50}$ values) for LT=lake trout, BT=brook trout, RT=rainbow trout, CC=channel catfish, LH=lake herring, FM=fathead minnow, JM=Japanese medaka, NP=northern pike, WS=white sucker, and ZF=zebrafish (reproduced from Sappington et al. 2011).

As indicated on the figure, trout are the most sensitive species to the effects of TCDD. Benthic, forage, and predator fish were collected from Choccolocco Creek. The fish species sampled and analyzed for TCDD in the OU-4 assessment include largescale stoneroller (*Campostoma oligolepis*), Alabama hog sucker (*Hypentelium etowanum)*, Alabama shiner (*Cyprinella callistia*), blacktail shiner (*Cyprinella venusta*), Coosa shiner (*Notropis xaenocephalus*), striped shiner (*Luxilus chrysocephalus*), silverstripe shiner (*Notropis stilbius*), blacktail redhorse (*Moxostoma poecilurum*), riffle minnow (*Phenacobius catostomus*), black-spotted topminnow (*Fundulus olivaceus*), spotted bass (*Micropterus punctulatus*), and large-mouth bass (*Micropterus salmoides*). While none of these species are represented in the distribution shown on the figure, it is expected that all of these species are less sensitive to the effects of TCDD than the highly sensitive salmonids. Therefore, the 90% species protection level from Steevens et al. (2005) should be sufficiently protective for the Choccolocco Creek fish species. Hence, the benchmark value of 2.2 ng TCDD/gram (g) lipid was selected as the CTC for fish. This value is based on the 95%UCL effects residue (based on the geometric mean of NOER and LOER values) from the Steevens et al. (2005) study.

To convert the lipid-based CTC to a dry weight basis for use with the dry weight BAFs, an adjustment for the fraction of lipid and a wet weight to dry weight conversion were needed. The mean lipid fraction for fish sampled from OU-4 and analyzed for PCDDs/PCDFs is 0.029; the maximum lipid fraction is 0.065, based on wet weight fish tissue concentrations. The average moisture content for fish tissue was assumed to be 75% (USEPA 1993). Two CTCs were calculated for fish, one using the mean lipid fraction

and one using the maximum (i.e., Scenarios 1 and 2) lipid fraction. The following formula was used to adjust the CTC from a lipid-basis to a dry-weight basis:

$$\text{CTC dw} = \text{CTC lipid} \times f\text{lipid} \times (100/100 - \%\ \text{moisture})$$

Where:

| | | |
|---|---|---|
| CTC | dw | Critical tissue concentration based on dry weight (ng/g BW, dw) |
| CTC | lipid | Lipid-normalized critical tissue concentration based on wet weight (ng/g lipid, ww) |
| *f*lipid | | Fraction lipid for OU-4 fish samples (g lipid/g bw, ww) |

The resulting fish tissue CTC values for the mean and maximum lipid scenarios are 255 ng/kg dw and 572 ng/kg dw, respectively. Because the fish TRV is based on a species sensitivity distribution that includes highly sensitive species such as salmonids, these values represent “safe” sediment TEQ concentrations that fish receptors could be exposed to without risk of adverse effects.

# 4 OU-4 TEQ RISK ESTIMATES

As noted above and consistent with the OU-4 BERA, dietary food web models were used to estimate risk for each representative wildlife receptor, including fish, eight mammals (white-tailed deer, short-tailed shrew, raccoon, red fox, long-tailed weasel, little brown bat, mink, and river otter), and nine bird species (mourning dove, blue jay, Carolina wren, red-tailed hawk, spotted sandpiper, tree swallow, belted kingfisher, great blue heron, and American osprey).

For the dietary HQs, congener-specific BAFs (Section 2.1) were used to estimate prey tissue TEQ concentrations. Soil/sediment and prey tissue TEQ EPCs were used to estimate TEQ ADDs, which were compared to the dietary TRVs selected in Section 3. The dietary HQs were calculated as follows:

$$Dietary\ HQ_x = \frac{ADD_{x_{pot}}}{Dietary\ TRV_x}$$

Where:

| | |
|---|---|
| Dietary $HQ_x$ | HQ for COPC "x" based on dietary exposure (unitless) |
| $ADD_{xpot}$ | potential ADD from COPC "x" (ng/kg BW-d) from Equation 2 (Section 2) |
| Dietary $TRV_x$ | dietary TRV for COPC "x" for avian- or mammalian-specified receptor (ng/kg BW-d; Section 3) |

Additionally, estimated TEQ concentrations in fish tissue were compared to tissue CTCs. Tissue-based HQs were calculated as follows:

$$Tissuex_i\ HQ_x = \frac{Tissuex_i\ EPC_x}{Tissuex_i\ CTC_x}$$

Where:

| | |
|---|---|
| $Tissue_i\ HQ_x$ | HQ for COPC "x" for tissue "i" (unitless) |
| $Tissue_i\ EPC_x$ | modeled EPC (Section 2.1) from COPC "x" (ng/kg dw), and |
| $Tissue_i\ CTC_x$ | tissue CTC for COPC "x" for tissue type (ng/kg dw) |

Figure F-2 summarizes the HQs based on modeled tissue TEQ concentrations. Due to uncertainties in the uptake, toxicity, and exposure terms included in the calculation, HQs are reported only to one significant digit in this TEQ assessment, consistent with presentation of HQs in the OU-4 BERA. For example, if the estimated HQ is 5.6, there is only enough confidence in the estimated HQ to report a value of 6. The HQs are presented on a toxic unit (TU) basis, with the PCDD/PCDF TEQ HQ and DL-PCB HQ summed to generate a total TEQ HQ for each receptor (denoted by the top of the stacked bar). The black dashes indicate the total TEQ HQ calculated directly using the total TEQ 95%UCL (or maximum) EPC. The total TEQ HQ calculated using the TU approach does not always match the total TEQ HQ

calculated using the 95%UCL soil and tissue EPC concentrations because the total TEQ 95%UCL concentrations are not equal to the sum of the 95%UCL PCDD/PCDF and 95%UCL DL-PCB soil and tissue concentrations. Uncertainties related to the presentation of TEQ HQs on a TU and direct calculation basis are discussed in Section 5. Complete HQ calculations are presented in Attachment F3.

Consistent with the interpretation of HQs in the OU-4 BERA, NOAEL HQs less than or equal to 1 indicate no unacceptable risk, as the NOAEL toxicity values represent a toxicological threshold below which there is high confidence in a finding of no unacceptable risk (i.e., risk is considered *de minimis*). NOAEL HQs greater than 1 indicate that risk is uncertain to wildlife populations and individuals.

## 4.1 Results for Avian Receptors

For all aquatic and terrestrial avian receptors, TEQ NOAEL HQs were less than or equal to 1 based on the AA-modeled EPCs with PCDD/PCDF TEQ or DL-PCB TEQ. For total TEQ HQs, all avian HQs were less than or equal to 1 when calculated on a TU basis or direct calculation basis except for Carolina wren (1 and 2). In the LAA, Carolina wren (1 and 2) had NOAEL total TEQ HQs equal to 2 when calculated directly using the total TEQ EPC; however, total TEQ HQs on a TU basis were equal to 1. The TU analysis and EPCs indicated that DL-PCBs are the primary contributor to the total TEQ HQs greater than 1. Uncertainty in the Carolina wren HQs is discussed in Section 5.4.1.

## 4.2 Results for Mammalian Receptors

For all aquatic and terrestrial mammalian receptors, TEQ NOAEL HQs were less than or equal to 1 based on the AA modeled EPCs with PCDD/PCDF TEQ, DL-PCB TEQ, or total TEQ (on a TU or direct calculation basis).

## 4.3 Results for Fish

For forage fish, bottom fish, predator fish, and all fish, TEQ NOAEL HQs were less than 1 based on the AA modeled EPCs with PCDD/PCDF TEQ, DL-PCB TEQ, or total TEQ (on a TU basis and direct calculation basis).

## 4.4 Consideration of Ambient TEQ Concentrations

PCDD/PCDFs are present in environmental media due to releases from both natural and anthropogenic sources and subsequent aerial transport and deposition. Thus, some proportion of TEQ concentrations in biotic and abiotic media in any particular location is due to ambient concentrations. Because DLCs elicit toxic effects at low concentrations, unacceptable risk can often be predicted at TEQ concentrations associated with ambient exposures. Consideration of the contribution of ambient, or “background”, TEQ concentrations is important when evaluating the potential for unacceptable risk at a site.

A formal background dataset for PCDD/PCDFs is not available for OU-4. However, limited PCDD/PCDF data are available from the OU-4 reference areas. Background PCDD/PCDF TEQ data are available in the literature as well. While OU-4 PCDD/PCDF concentrations appear to be somewhat greater than in

reference areas, the OU-4 PCDD/PCDF TEQ concentrations fall predominantly within the range of background soil TEQ concentrations reported by USEPA (2004), as described below.

PCDD/PCDF sediment data are available from three reference locations outside OU-4 that were evaluated as part of the BERA process. As presented in Table F-1, the mean sediment mammalian PCDD/PCDF TEQ concentrations in the OU-4 assessment areas (ranging from 0.00623 to 0.00924 µg/kg dw, depending on treatment of ND congeners) are greater than the mean sediment concentrations in the reference locations (0.000399 to 0.0012 µg/kg dw). This comparison is limited in utility however, due to the small sample size for both OU-4 (N=10) and reference (N=3) datasets. OU-4 reference PCDD/PCDF data are not available for soil.

As summarized in USEPA (2004), PCDD/PCDF TEQ concentrations in background soils range up to 0.057 µg/kg dw in North America (BC Environment 1995, USEPA 2001). The majority of OU-4 soil samples fall within this range. Only six of 106 samples (including six duplicates) exceed the background range for PCDD/PCDF TEQ (Table F-9) when calculated using either zero or one-half RL for NDs, and eight of 106 samples (including six duplicates) exceed the PCDD/PCDF TEQ background range when calculated using the full RL for NDs.

Note that the locations exceeding the background range for PCDD/PCDF TEQ are in the in the more downstream areas of OU-4 and are not located in areas associated with elevated PCB concentrations, such as in Snow Creek or the backwater areas of OU-4 (see OU-4 BERA Section 8).

Sediment PCDD/PCDF TEQ concentrations are all within the range of soil background (maximum value using full RL is 0.033 µg/kg dw.

Based on the available information, PCDD/PCDF TEQ concentrations in OU-4 are mostly consistent with background concentrations, except for a few locations in floodplain soil in the downstream reaches of Choccolocco Creek.

# 5 UNCERTAINTY ANALYSIS

As with any risk assessment, there is a degree of uncertainty inherent in the assumptions and calculations. Uncertainties in any risk assessment include natural variability in chemical concentrations, interspecies differences in sensitivity, errors in field and laboratory measurements of exposure and effects, incomplete knowledge regarding pathways and routes of exposure, and uncertainties associated with exposure models (USEPA 2008). For example, uncertainty associated with exposure models stems from the use of literature data for exposure parameters such as body weight, ingestion rate, and dietary composition for the receptors evaluated in the OU-4 BERA, and natural populations may exhibit considerable variability in these parameters. Exposure model uncertainty and several other areas of uncertainty described in the OU-4 BERA (refer to OU-4 BERA Section 6.2) are relevant to this TEQ assessment (e.g., derivation of BAFs). Several of the more significant areas that contribute to the uncertainty associated with the TEQ risk estimates are discussed below. These uncertainties may result in HQs that may under- or overestimate risks to OU-4 receptors.

## 5.1 Uncertainties Associated with TEQ Methodology

USEPA (2008) summarizes the uncertainties associated with TEFs and TEQ methodology. According to USEPA (2008), “While there are uncertainties associated with the application of the toxicity equivalence methodology, they are believed to be, in aggregate, less significant than those associated with other aspects of the risk assessment process and those associated with other approaches for assessing risks of dioxin-like chemicals. Uncertainties in the toxicity equivalence methodology are related to the assumptions and procedures used to derive the TEFs… as well as the relative potency data underlying these values.”

There is a high degree of uncertainty associated with including PCB congeners in the calculation of soil and sediment TEQ concentrations due to the unreliability of the TEFs for these compounds, particularly when assessing risks to ecological receptors. The most significant PCB congeners in terms of “dioxin-like potency,” and therefore significant contributors to the TEQ, are the non-ortho substituted congeners: PCB-77, PCB-81, PCB-126, and PCB-169. These congeners were sporadically detected (PCB-77 and PCB-126) or not detected at all (PCB-81 and PCB-169) in OU-4 floodplain soil and sediment. For example, PCB-126 was detected in only 11 of 102 floodplain soil samples (10.8 %) and two of 12 sediment samples (16.7%). PCB-77 was detected in 6 of 102 floodplain soil samples (5.9%) and was not detected in 12 sediment samples. Two other non-ortho substituted congeners (PCB-81 and PCB-169) were not detected in floodplain soil or sediment samples.

Additionally, the application of TEFs to abiotic media is uncertain. Mammalian TEFs are derived based on prey tissue ingestion (i.e., primarily from oral uptake studies through dietary exposure). Direct calculation of TEQ concentrations in soil and sediment does not account for reductions in bioavailability or uptake that occur differentially for the individual congeners during ingestion, and for differences in the environmental fate of these compounds in abiotic media (Van den Berg et al. 2006[5]). Similarly, the bird and fish TEFs are calculated based on egg injection studies or *in vitro* exposures where the exposure

[5] Concern was expressed [by the World Health Organization Committee] about direct application of the TEF/total TEQ approach to abiotic matrices, such as soil, sediment, etc., for direct application in human risk assessment. This is problematic as the present TEF scheme and TEQ methodology are primarily intended for estimating exposure and risks via oral ingestion (e.g., by dietary intake).

conditions are not likely to be representative (in terms of the suite of congeners and their relative concentrations) of the *in vivo* exposures that result from dietary uptake of dioxins and furans (Van den Berg et al. 1998). Therefore, dioxin TEQs calculated using fish and bird TEFs are relevant only to tissue data for which dioxin/furan congeners were measured. There is significant uncertainty in the application of mammal, bird, and fish TEFs to soil and sediment data in the dietary models, and TEQ HQs for these receptors may not be predictive of actual risk.

## 5.2 Uncertainties Associated with Analytical Methods and Non-Detect Congeners

Soil, sediment, and tissue data analyzed for PCDD/PCDF and DL-PCB congeners were collected between 1999 and 2013. In some samples, especially for DL-PCBs, the laboratory RLs are elevated, resulting in uncertainty in the actual TEQ concentrations. ND congeners were evaluated three different ways in this assessment to estimate a range of possible TEQ concentrations. These include: 1) assuming that all of the ND concentrations are zero; 2) assuming that the ND analytes are present at one-half the RL; and 3) assuming that the PCDD/PCDF ND analytes are present at the RL and that DL-PCB ND analytes are present at 0.5 x RL (i.e., one-half of the RL). As shown on Tables F-1 and F-2, the sediment and soil TEQ concentrations vary depending on the assumptions selected for ND congeners. When ND congeners are evaluated at zero in the TEQ calculation, the TEQ contribution of individual congeners with elevated RLs may be underestimated. As reported by Rushneck et al. (2004), new analytical methods with lower detection limits have shown that some PCB congeners, such as PCB 126, are present in all Aroclor mixtures tested, whereas these congeners had been assumed to not be present in some Aroclor mixtures based on undetectable concentrations measured from older analytical methods.

When ND congeners are evaluated at one-half or the full RL, the TEQ contribution of individual congeners are unlikely to be underestimated but may be overestimated, especially for congeners with elevated RLs. Tables F-1 and F-2 demonstrate that the range of TEQ concentrations calculated for the PCDD/PCDF TEQs is relatively small, because the RLs are generally low. For DL-PCB TEQs, elevated RLs for some congeners result in a larger range of estimated TEQ concentrations. Inclusion of the DL-PCBs in the total TEQ concentrations also results in a relatively wide range of estimated TEQ concentrations compared to the PCDD/PCDF TEQs.

Based on the higher DL-PCB TEQ concentrations calculated using one-half RL concentrations for NDs (Tables F-1 and F-2), it is likely that wildlife HQs greater than one could be estimated for some receptors using the modeled tissue approach for TEQs calculated using one-half ND. However, given the uncertainty in the quantitation of DL-PCBs, as discussed above, it is unclear whether unacceptable risk to wildlife would actually be present. Regardless, the PCB risk assessment presented in this OU-4 BERA is a more robust and less uncertain evaluation of potential risk from PCB exposure than presented herein for DL-PCBs. Potential risk due to PCBs (including DL-PCBs) are more fully evaluated BERA.

## 5.3 Uncertainties Associated with Bioaccumulation of DLCs

The bioaccumulation of PCDDs/PCDFs is influenced by site- and species-specific factors (e.g., trophic level, sediment and soil organic carbon content, organism lipid content); these are discussed in detail by USEPA (2008). Extrapolation of BAFs from one ecosystem to another is a potentially large source of

uncertainty; however, with the exception of the BAFs used for terrestrial invertebrates (from the study by Fagervold et al. 2010), the BAFs used in this assessment were site-specific. There are general uncertainties associated with BAFs and there are uncertainties that are specific to PCDDs/PCDFs. For example, BAF models are considered poor predictors of bioaccumulation of hydrophobic substances from sediment to fish (Usenko et al. 2012). Some of the areas of uncertainty related to bioaccumulation of PCDDs/PCDFs are described below:

- Confounding factors of bioaccumulation models. Bioaccumulation of DLCs and resulting BAFs can be confounded by factors such as the residence time of mobile species within a given exposure unit; the representativeness of the sampling program to assess contaminant concentrations in sediment/soil; the variability in organism rates of biotransformation, metabolism, and excretion; and seasonal food web variations (Usenko et al. 2012). These factors can either overestimate or underestimate exposure to TEQs.
- Assuming PCDD/PCDF and DL-PCB congener concentrations in soil and sediment are 100% bioavailable. Only a fraction of the PCDD/PCDF concentrations present in soil and sediment may be taken up or result in an effect on an organism. Physical, chemical, and biological processes affect contaminant bioavailability, and aging of soil may decrease the bioavailability of dioxins (Ruby et al. 2002); relatively bioavailability for exposure to dioxins from soil is less than 100% (SRC 2010). Therefore, assuming the PCDDs/PCDFs in OU-4 sediment and soil are 100%bioavailable overstates exposure and risk.
- Not accounting for sediment and soil organic carbon content and lipid content of biota. In calculation of BAFs, to account for the partitioning of hydrophobic chemicals, sediment concentrations are often adjusted for organic carbon and tissue concentrations are adjusted for lipid content (Usenko et al. 2012). The BAFs calculated for OU-4 are based on dry weight TEQ concentrations in biota and sediment, consistent with the approach in the OU-4 BERA for PCBs, for which organic carbon normalization did not improve predictability of the uptake models in OU-4.

## 5.4 Uncertainties Associated with the Site-Specific Dataset

The uncertainties associated with the site-specific dataset that was used to assess TEQ risk in OU-4 are discussed below and include the development of EPCs and BAFs.

### 5.4.1 Uncertainties Associated with Selected EPCs

Due to small sample sizes and the methodology used to calculate TEQ EPCs (based on congener concentrations and TEFs), the TEQ EPCs recommended by ProUCL can be sensitive to changes in the number and distribution of samples. For example, the LAA soil dataset consists of 28 samples. The ProUCL-recommended avian DL-PCB TEQ EPC is 4,093 ng/kg, based on the 95% Chebyshev UCL. However, the ProUCL-recommended avian total TEQ EPC is 8,371 ng/kg, based on the 99% Chebyshev UCL, and the same number of samples. For reference, the avian total TEQ EPC based on the 95% Chebyshev UCL is 4,271 ng/kg. This sensitivity in the 95%UCL has a relatively large impact on both the soil and terrestrial tissue EPCs, as can be seen by the difference in HQs estimated by the TU method and direct calculation method. For example, the Carolina wren (1 and 2) would have estimated total TEQ HQs equal to one if the 95% Chebyshev UCL was selected as the EPC.

Additionally, sediment and aquatic tissue EPCs are based predominantly on the maximum concentrations. The small sediment DLC dataset may in result overestimation of risk to aquatic receptors, as a larger dataset would be expected to decrease both variability and use of maximum EPCs.

### 5.4.2 Uncertainties Associated with Selection of Site–Specific and Literature Bioaccumulation Factors for DLC congeners

In addition to the general uncertainties related to bioaccumulation of DLCs, the approach used in this assessment has specific uncertainties that may influence the risk estimates. As discussed in the OU-4 BERA (Section 6.2), tissue data were collected in a subset of the EUs. Additionally, the tissue data were collected within BSAs and were not precisely co-located with sediment/soil data. For TEQ in particular, the site-wide sediment and tissue datasets are small, and the paired data from BSAs available for BAF derivation represent only a subset of that data. In many cases, congener-specific site-wide median BAFs were calculated based just one or two available tissue samples (Table F-6 and Attachment F1). Because some BSAs did not have data for both abiotic and biotic samples, it was not possible to calculate site-wide median BAFs for several congeners and tissues. In these cases, the site-wide average ratio BAF was selected (see Attachment F1). Use of this alternate BAF approach is more uncertain than use of site-wide median BAFs, because the data used to calculate the ratio can be located in any of the BSAs and may not reflect local uptake conditions for the sampled tissue. Further, it is unknown whether the congener-specific BAFs are predictive of tissue concentrations because the BAF datasets are not sufficient for regression analysis. For many congeners, BAFs were not developed because the congener was not detected in tissue. There is uncertainty whether this is due to differences in uptake and elimination of the various congeners and/or whether a larger sample size would increase the number of detected congeners.

Additionally, DLC congeners were not measured in some tissues and therefore BAFs could not be developed. For terrestrial invertebrates, literature BAFs for earthworms from Fagervold et al. (2010) were used to estimate terrestrial prey tissue TEQ concentrations for earthworms, spiders, and terrestrial insects. In the Fagervold et al. (2010) study, BAF values for the earthworm *Eisenia foetida* in untreated soil ranged from 0.02 (dw) for some of the higher chlorinated congeners to 0.17 (dw) for TCDD. Typical BAF values for PCDDs/PCDFs in terrestrial earthworms range from 0.09 to 1.1 (Matscheko et al. 2002). Schrock et al. (1997) found similar ranges (0.09 to 0.28 [dw]) in 28-day bioaccumulation tests of the sandworm *Nereis virens* in dredged sediments. BAF values for other hydrophobic compounds in terrestrial earthworms are generally higher, such as determined in the study by Blankenship et al. (2005), in which BAF values for PCBs in earthworms ranged from 0.48 (dw) to 2.4 (dw) depending on the concentration of PCBs and soil type. Fagervold et al (2010) did not report BAFs for DL-PCB congeners, and therefore the median of the individual PCDD/PCDF congener BAFs was selected. Use of the median PCDD/PCDF BAF to estimate DL-PCB uptake is likely to underestimate uptake of DL-PCBs into earthworm tissue based on comparison to the Blankenship et al. (2005) BAFs, but may over- or under-estimate uptake of DL-PCBs to spiders and terrestrial insects. For aquatic worms, congener-specific BAFs based on Odonate larvae were selected to model uptake. Due to differences in habitat selection and sediment exposure, it is expected that the selected BAFs underestimate exposure to aquatic worms. However, because wildlife receptors consume a mixed diet containing a variety of prey tissue types, the estimated HQs are not expected to be significantly underestimated based on the use of the Odonate BAF for aquatic worms.

Overall, the congener-specific BAFs developed for this TEQ assessment are considered to be highly uncertain and may not accurately reflect site-wide exposure and uptake conditions in OU-4. Use of these BAFs may over- or underestimate TEQ exposure in OU-4.

## 5.5 Uncertainties Associated with Use of Modeled Tissue EPCs

The TEQ risks were based on tissue TEQ concentrations modeled from soil and sediment samples and congener-specific BAFs. Although the risk estimates have a high degree of associated uncertainty, the modeled tissue EPCs provide a better estimate of the range of potential exposure to DLC compounds in OU-4 than use of measured tissue EPCs. For measured tissue, EPCs and associated HQs were not calculated herein because datasets were less than seven samples for all tissue types except forage fish (N=13). As a result, measured tissue EPCs would be based on maximum concentrations, and risk estimates for the entirety of OU-4 would be based on a single tissue sample. To compare the difference between risks estimated using modeled versus measured tissue EPCs, site-wide 95%UCL Avian TEQ concentrations in forage fish were calculated (435, 49.3, and 494 ng/kg dw for PCDD/PCDF TEQ, DL-PCB TEQ, and total TEQ, respectively) and used to estimate risk to belted kingfisher–1, which is assumed to consume 100% forage fish. As shown in Figure F-3, TEQ HQs modeled using sediment data and congener-specific BAFs are generally similar to TEQ HQs calculated using measured tissue EPCs. Thus, at least for piscivorous wildlife, use of the modeled tissue EPCs results in risk estimates that are consistent with risk estimated using measured tissue data.

Additionally, the modeled tissue EPCs were calculated assuming that ND congeners were equal to zero in the tissue TEQ calculation. This assumption may underestimate TEQ concentrations, especially for DL-PCB congeners with elevated reporting limits. However, as the individual DL-PCB congeners generally have low TEF values, the effect on the final modeled TEQ concentration is expected to be minimal. Use of one-half or full RL in the modeled tissue TEQ calculations is not considered appropriate due to the high degree of uncertainty in applying a BAF to a ND concentration.

## 5.6 Uncertainties Associated with TRVs and CTCs

There are always general uncertainties associated with TRV derivation. These uncertainties include, but are not limited to, the following:

- Species-to-species extrapolations and differences in sensitivity
- Lack of data for the appropriate exposure duration
- Targeted effects that may not have been assessed
- Errors in extrapolating data from laboratory to field
- Use of allometric scaling based on body mass (does not account for physiological differences and respective differential sensitivity)
- Acute to chronic extrapolations
- Reliance on LOAELs and NOAELs instead of specified effect levels or dose-response distributions

Using TRVs based on NOAELs, such as in this assessment, is highly conservative and appropriate in a screening assessment to ensure protection of sensitive receptors. The major uncertainties associated with TRVs in this TEQ assessment are discussed below.

- The avian TRV may overstate risks to the Group 3 avian receptors. Farmahin et al. (2013) classified birds based on their sensitivity to DLCs: chicken-like or Group 1 (most sensitive), pheasant-like or Group 2 (intermediate sensitivity, 6-fold lower than Group 1), and quail-like or Group 3 (least sensitive, 35-fold less sensitive than Group 1). Of the nine avian receptors for the OU-4 analysis, the mourning dove, blue jay, spotted sandpiper, and tree swallow were placed in Group 2; the house wren, a species related to the Carolina wren, was also included in Group 2; and the red-tailed hawk, belted kingfisher, great blue heron, and osprey were assigned to Group 3. The Custer et al. (2005) study of the tree swallow provides an appropriately protective TRV for the Group 2 species, but may be overly conservative for and overstate risks to the Group 3 species in the assessment—the red-tailed hawk, belted kingfisher, great blue heron, and osprey.
- Reliance on a highly conservative TRV for mammalian receptors. The TRV for mammalian species was derived from studies of mink. Mink are acknowledged to be uniquely and highly sensitive to the adverse effects of DLCs. Applying this TRV to all mammalian receptors evaluated in the OU-4 assessment is very conservative and overprotective for receptors species that are not as highly sensitive to the effects of DLCs. Recent studies of avian species using advanced technology provide information on the relative sensitivity of various species of birds to the toxic effects of DLCs (refer to Section 2). However, similar studies are not available to assess the relative sensitivity of mammals. Therefore, it is not possible to assess the relative sensitivity of the mammalian receptor species. In addition, the magnitude of the conservative nature of the mammalian risk-based TEQ concentration cannot be quantified; although, using a TRV based on the most sensitive receptor overstates risks for less sensitive mammalian receptors.
- Use of TRVs derived from field studies. Use of a TRV derived from a field study likely reduces the uncertainty associated with extrapolating administered dose (diet) to internal dose. For example, in the case of the avian TRV, if the oral absorption efficiency of DLCs in prey items from the Woonasquatucket River is assumed to be the same as that in prey from OU-4, there would be no uncertainty in the extrapolation of doses. Therefore, there is an advantage to using field-derived TRVs versus those derived from laboratory studies that employ injection or oral gavage as the exposure route. This reduces the uncertainty associated with the derivation of the, and therefore would more accurately reflect risks. However, there are uncertainties inherent in the use of field studies such as the presence and unknown influence of confounding factors such as the effects of other contaminants and other ecological stressors.
- Field studies highlight the overly protective nature of assessment process. In an effort to “ground truth” the predictive ability of ecological benchmarks for a Housatonic River ecological risk assessment, Boonstra and Bowman (2003) evaluated the demography of six local populations of the short-tailed shrew living in eastern deciduous forest palustrine habitat along the Housatonic River on soils contaminated with PCBs. No relationship was found to exist between any shrew demographic parameter and PCB soil concentrations. Shrew densities were high, survival was good, and sex ratio, reproduction rates, growth rates, and body mass were within normal ranges reported in the literature. Thus, these shrew populations showed no detectable impact on their population demography even

though PCB body burdens were 3 to 10 times higher than levels reported in the literature that have been linked with physiological impairment. This suggests that although species may be exposed to (and bioaccumulate) DLCs at relatively high levels, this exposure may not result in population-level effects, and illustrates the potentially great uncertainty associated with predictive risk assessments for DLCs.

- Inclusion of highly sensitive salmonid species in the fish species sensitivity curve that is the basis for the fish CTC. The species sensitivity distribution for use in assessing the risk of TCDD and DLCs incorporates residue effect data for lake trout and other salmonids that are substantially lower than residues associated with effects in the other fish species (Steevens et al. 2005). To account for the inclusion of these sensitive species, which are not present in OU-4, the selected fish TEQ CTC (2.2 ng/g lipid, Section 3.3) is based on the 95%UCL of the effects threshold protective of 90% of the population. Although the mean effect threshold protective of 90% of the population is somewhat lower (0.70 ng/g lipid), fish tissue HQs calculated using the mean effects threshold are all less and or equal to 1 as well (Fish HQs based on the mean CTC increase about three times relative to HQs [Figure F-3] based on the 95%UCL CTC.) Additionally, modeled fish tissue concentrations (Table F-8) for all fish types (forage fish, bottom fish, and predator fish) are below the tissue threshold of 3,000 to 16,000 ng/kg ww (12,000 to 64,000 ng/kg dw) reported by King-Heiden et al. (2012) for wasting/lethality in adult yellow perch (*Perca flavescens*), carp (Cyprinidae) and bullhead (*Ameiurus nebulosus*), adult rainbow trout, bluegill (*Lepomis macrochirus*), and largemouth bass (*Micropterus salmoides*). Therefore, the TRV based on this distribution is not considered to underestimate risk for the less-sensitive fish species that inhabit Choccolocco and Snow Creeks, and would likely overstate risks to these species.

# 6 SUMMARY

The results indicate that OU-4 creek sediments and floodplain soil TEQ concentrations are unlikely to pose an unacceptable risk to wildlife (birds and mammals) or fish, as all NOAEL-based HQs calculated using modeled tissue TEQ concentrations are less than or equal to 1 for PCDD/PCDF TEQ, DL-PCB TEQ, and total TEQ (on a TU basis) calculated using ND=0 (Figure F-2). Soil and sediment PCDD/PCDF TEQ concentrations are also mostly (96 of 102 soils samples and all sediment samples) within the range of background soil concentrations reported in the literature (USEPA 2004, USEPA 2001, BC Environment 1995).

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# TABLES

**Table F-1. Sediment Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Depth (ft bgs) | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | FOD | Minimum Detect | Maximum Detect | Minimum Nondetect | Maximum Nondetect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Upper Assessment Area** | | | | | | | | | | | | | | | | |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-HpCDD | ng/kg | 0-0.5 | 5 / 5 | 100 | 2.47 | 53.6 | N/A | N/A | 22.79 | 20.1 | 360 | 18.97 | -- | -- | 53.6 | Maximum Detect |
| 1,2,3,4,6,7,8-HpCDF | ng/kg | 0-0.5 | 3 / 5 | 60 | 11.85 | 102 | 0.55 | 3.5 | 42.48 | 13.6 | 2657 | 51.55 | -- | -- | 102 | Maximum Detect |
| 1,2,3,4,7,8,9-HpCDF | ng/kg | 0-0.5 | 4 / 5 | 80 | 0.44 | 43.8 | 0.17 | 0.17 | 12.59 | 3.065 | 434.4 | 20.84 | -- | -- | 43.8 | Maximum Detect |
| 1,2,3,4,7,8-HxCDD | ng/kg | 0-0.5 | 2 / 5 | 40 | 0.388 | 0.551 | 0.14 | 0.92 | 0.47 | 0.47 | 0.0133 | 0.115 | -- | -- | 0.551 | Maximum Detect |
| 1,2,3,4,7,8-HxCDF | ng/kg | 0-0.5 | 4 / 5 | 80 | 0.65 | 114 | 0.11 | 0.11 | 33.62 | 9.905 | 2891 | 53.77 | -- | -- | 114 | Maximum Detect |
| 1,2,3,6,7,8-HxCDD | ng/kg | 0-0.5 | 3 / 5 | 60 | 0.13 | 3.08 | 1.01 | 1.05 | 1.293 | 0.67 | 2.467 | 1.571 | -- | -- | 3.08 | Maximum Detect |
| 1,2,3,6,7,8-HxCDF | ng/kg | 0-0.5 | 4 / 5 | 80 | 0.59 | 28.2 | 0.11 | 0.11 | 8.636 | 2.878 | 171.3 | 13.09 | -- | -- | 28.2 | Maximum Detect |
| 1,2,3,7,8,9-HxCDD | ng/kg | 0-0.5 | 4 / 5 | 80 | 0.63 | 2.64 | 0.12 | 0.12 | 1.378 | 1.12 | 0.768 | 0.877 | -- | -- | 2.64 | Maximum Detect |
| 1,2,3,7,8,9-HxCDF | ng/kg | 0-0.5 | 1 / 5 | 20 | 3.91 | 3.91 | 0.15 | 0.408 | 3.91 | 3.91 | N/A | N/A | -- | -- | 3.91 | Maximum Detect |
| 1,2,3,7,8-PeCDD | ng/kg | 0-0.5 | 2 / 5 | 40 | 0.392 | 0.482 | 0.13 | 0.54 | 0.437 | 0.437 | 0.00405 | 0.0636 | -- | -- | 0.482 | Maximum Detect |
| 1,2,3,7,8-PeCDF | ng/kg | 0-0.5 | 4 / 5 | 80 | 0.32 | 19.7 | 0.17 | 0.17 | 6.018 | 2.025 | 83.86 | 9.157 | -- | -- | 19.7 | Maximum Detect |
| 2,3,4,6,7,8-HxCDF | ng/kg | 0-0.5 | 3 / 5 | 60 | 1.89 | 9.49 | 0.13 | 0.23 | 4.438 | 1.935 | 19.14 | 4.375 | -- | -- | 9.49 | Maximum Detect |
| 2,3,4,7,8-PeCDF | ng/kg | 0-0.5 | 4 / 5 | 80 | 0.28 | 19.6 | 0.17 | 0.17 | 7.749 | 5.558 | 68.65 | 8.286 | -- | -- | 19.6 | Maximum Detect |
| 2,3,7,8-TCDD | ng/kg | 0-0.5 | 0 / 5 | 0 | N/A | N/A | 0.097 | 1.1 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-TCDF | ng/kg | 0-0.5 | 4 / 5 | 80 | 0.63 | 64.2 | 0.15 | 0.15 | 21.81 | 11.21 | 824.7 | 28.72 | -- | -- | 64.2 | Maximum Detect |
| octa CDD | ng/kg | 0-0.5 | 5 / 5 | 100 | 94.4 | 995 | N/A | N/A | 450.9 | 371 | 112883 | 336 | -- | -- | 995 | Maximum Detect |
| octa CDF | ng/kg | 0-0.5 | 5 / 5 | 100 | 1.2 | 299 | N/A | N/A | 69.27 | 16.15 | 16592 | 128.8 | -- | -- | 299 | Maximum Detect |
| **Polychlorinated Biphenyl Congeners** | | | | | | | | | | | | | | | | |
| BZ#77 | mg/kg | 0-0.5 | 0 / 7 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0-0.5 | 0 / 7 | 0 | N/A | N/A | 0.0032 | 0.012 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#105 | mg/kg | 0-0.5 | 3 / 7 | 43 | 0.0086 | 0.036 | 0.0016 | 0.0058 | 0.0239 | 0.027 | 0.00019505 | 0.014 | -- | -- | 0.036 | Maximum Detect |
| BZ#114 | mg/kg | 0-0.5 | 0 / 7 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 0-0.5 | 5 / 7 | 71 | 0.0022 | 0.072 | 0.0016 | 0.0021 | 0.0325 | 0.025 | 0.00080971 | 0.0285 | -- | -- | 0.072 | Maximum Detect |
| BZ#123 | mg/kg | 0-0.5 | 0 / 7 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0-0.5 | 2 / 7 | 29 | 0.0064 | 0.012 | 0.0016 | 0.0035 | 0.0092 | 0.0092 | 0.00001568 | 0.00396 | -- | -- | 0.012 | Maximum Detect |
| BZ#153 | mg/kg | 0-0.5 | 5 / 7 | 71 | 0.0044 | 0.11 | 0.0032 | 0.0042 | 0.066 | 0.0665 | 0.00156 | 0.0395 | -- | -- | 0.11 | Maximum Detect |
| BZ#156 | mg/kg | 0-0.5 | 3 / 7 | 43 | 0.0035 | 0.011 | 0.0016 | 0.0058 | 0.00777 | 0.0088 | 0.000014863 | 0.00386 | -- | -- | 0.011 | Maximum Detect |
| BZ#157 | mg/kg | 0-0.5 | 1 / 7 | 14 | 0.0021 | 0.0021 | 0.0016 | 0.0058 | 0.0021 | 0.0021 | N/A | N/A | -- | -- | 0.0021 | Maximum Detect |
| BZ#167 | mg/kg | 0-0.5 | 0 / 7 | 0 | N/A | N/A | 0.0032 | 0.012 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0-0.5 | 0 / 7 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0-0.5 | 0 / 7 | 0 | N/A | N/A | 0.0016 | 0.0058 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **TEQ** | | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 5 / 5 | 100 | 0.0000133 | 0.103 | -- | -- | 0.0285 | -- | -- | 0.0427 | -- | -- | 0.103 | Maximum Detect |
| Avian PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 5 / 5 | 100 | 0.000333 | 0.104 | -- | -- | 0.0289 | -- | -- | 0.043 | -- | -- | 0.104 | Maximum Detect |
| Avian PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 5 / 5 | 100 | 0.0006527 | 0.105 | -- | -- | 0.0292 | -- | -- | 0.0433 | -- | -- | 0.105 | Maximum Detect |
| Avian DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 7 / 7 | 100 | 0 | 1.2 | -- | -- | 0.264 | -- | -- | 0.476 | -- | -- | 1.2 | Maximum Detect |
| Avian DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 7 / 7 | 100 | 0.281 | 1.95 | -- | -- | 0.708 | -- | -- | 0.588 | -- | -- | 1.95 | Maximum Detect |
| Avian DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 7 / 7 | 100 | 0.562 | 2.7 | -- | -- | 1.151 | -- | -- | 0.731 | -- | -- | 2.7 | Maximum Detect |
| Avian Total TEQ (ND=0) | µg/kg | 0-0.5 | 8 / 8 | 100 | 0.0000133 | 1.2 | -- | -- | 0.249 | -- | -- | 0.442 | 2.824 | 95% Adjusted Gamma UCL | 1.2 | Maximum Detect |
| Avian Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 8 / 8 | 100 | 0.104 | 1.95 | -- | -- | 0.637 | -- | -- | 0.585 | 1.029 | 95% Student's-t UCL | 1.029 | UCL |
| Avian Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 8 / 8 | 100 | 0.105 | 2.7 | -- | -- | 1.026 | -- | -- | 0.772 | 1.543 | 95% Student's-t UCL | 1.543 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 5 / 5 | 100 | 0.0000664 | 0.0314 | -- | -- | 0.00855 | -- | -- | 0.013 | -- | -- | 0.0314 | Maximum Detect |
| Mammalian PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 5 / 5 | 100 | 0.000257 | 0.0323 | -- | -- | 0.00889 | -- | -- | 0.0133 | -- | -- | 0.0323 | Maximum Detect |
| Mammalian PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 5 / 5 | 100 | 0.0004476 | 0.0332 | -- | -- | 0.00924 | -- | -- | 0.0136 | -- | -- | 0.0332 | Maximum Detect |
| Mammalian DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 7 / 7 | 100 | 0 | 1.2 | -- | -- | 0.264 | -- | -- | 0.477 | -- | -- | 1.2 | Maximum Detect |
| Mammalian DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 7 / 7 | 100 | 0.105 | 1.29 | -- | -- | 0.393 | -- | -- | 0.442 | -- | -- | 1.29 | Maximum Detect |
| Mammalian DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 7 / 7 | 100 | 0.21 | 1.38 | -- | -- | 0.522 | -- | -- | 0.415 | -- | -- | 1.38 | Maximum Detect |
| Mammalian Total TEQ (ND=0) | µg/kg | 0-0.5 | 8 / 8 | 100 | 0.000066 | 1.2 | -- | -- | 0.236 | -- | -- | 0.448 | 2.733 | 95% Adjusted Gamma UCL | 1.2 | Maximum Detect |
| Mammalian Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 8 / 8 | 100 | 0.0323 | 1.29 | -- | -- | 0.349 | -- | -- | 0.428 | 1.044 | 95% Adjusted Gamma UCL | 1.044 | UCL |
| Mammalian Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 8 / 8 | 100 | 0.0332 | 1.38 | -- | -- | 0.462 | -- | -- | 0.421 | 0.744 | 95% Student's-t UCL | 0.744 | UCL |
| Fish PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 5 / 5 | 100 | 0.0000133 | 0.0313 | -- | -- | 0.00862 | -- | -- | 0.013 | -- | -- | 0.0313 | Maximum Detect |
| Fish PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 5 / 5 | 100 | 0.000242 | 0.0323 | -- | -- | 0.00898 | -- | -- | 0.0133 | -- | -- | 0.0323 | Maximum Detect |
| Fish PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 5 / 5 | 100 | 0.0004707 | 0.0333 | -- | -- | 0.00935 | -- | -- | 0.0136 | -- | -- | 0.0333 | Maximum Detect |
| Fish DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 7 / 7 | 100 | 0 | 0.0601 | -- | -- | 0.0133 | -- | -- | 0.0238 | -- | -- | 0.0601 | Maximum Detect |
| Fish DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 7 / 7 | 100 | 0.00496 | 0.0636 | -- | -- | 0.0193 | -- | -- | 0.0219 | -- | -- | 0.0636 | Maximum Detect |
| Fish DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 7 / 7 | 100 | 0.00992 | 0.0671 | -- | -- | 0.0252 | -- | -- | 0.0203 | -- | -- | 0.0671 | Maximum Detect |
| Fish Total TEQ (ND=0) | µg/kg | 0-0.5 | 8 / 8 | 100 | 0.000011 | 0.0601 | -- | -- | 0.0171 | -- | -- | 0.022 | 0.134 | 95% Adjusted Gamma UCL | 0.0601 | Maximum Detect |
| Fish Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 8 / 8 | 100 | 0.0052 | 0.0636 | -- | -- | 0.0225 | -- | -- | 0.02 | 0.0359 | 95% Student's-t UCL | 0.0359 | UCL |
| Fish Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 8 / 8 | 100 | 0.0104 | 0.0671 | -- | -- | 0.0279 | -- | -- | 0.0185 | 0.0403 | 95% Student's-t UCL | 0.0403 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 0-0.5 | 2 / 2 | 100 | 22 | 27 | N/A | N/A | 24.5 | 24.5 | 12.5 | 3.536 | -- | -- | 27 | Maximum Detect |
| Solids, percent | % | 0-0.5 | 48 / 48 | 100 | 52.2 | 89 | N/A | N/A | 72.76 | 74.05 | 98.08 | 9.903 | 75.16 | 95% Student's-t UCL | 75.16 | UCL |
| TOC by lloyd kahn | mg/kg | 0-0.5 | 62 / 80 | 129 | 680 | 52200 | 500 | 1260 | 10429 | 6630 | 102400000 | 10120 | 10388 | 95% KM Approximate Gamma UCL | 10388 | UCL |

**Table F-1. Sediment Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Depth (ft bgs) | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | FOD | Minimum Detect | Maximum Detect | Minimum Nondetect | Maximum Nondetect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Middle Assessment Area** | | | | | | | | | | | | | | | | |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-HpCDD | mg/kg | 0-0.5 | 3 / 3 | 100 | 2.76 | 94.1 | N/A | N/A | 36.59 | 12.9 | 2507 | 50.07 | -- | -- | 94.1 | Maximum Detect |
| 1,2,3,4,6,7,8-HpCDF | mg/kg | 0-0.5 | 3 / 3 | 100 | 1.53 | 36.3 | N/A | N/A | 14.15 | 4.62 | 370.4 | 19.24 | -- | -- | 36.3 | Maximum Detect |
| 1,2,3,4,7,8,9-HpCDF | mg/kg | 0-0.5 | 3 / 3 | 100 | 0.686 | 5.27 | N/A | N/A | 2.311 | 0.978 | 6.587 | 2.566 | -- | -- | 5.27 | Maximum Detect |
| 1,2,3,4,7,8-HxCDD | mg/kg | 0-0.5 | 3 / 3 | 100 | 0.127 | 1.63 | N/A | N/A | 0.666 | 0.242 | 0.7 | 0.837 | -- | -- | 1.63 | Maximum Detect |
| 1,2,3,4,7,8-HxCDF | mg/kg | 0-0.5 | 3 / 3 | 100 | 1.38 | 18.4 | N/A | N/A | 7.787 | 3.58 | 85.69 | 9.257 | -- | -- | 18.4 | Maximum Detect |
| 1,2,3,6,7,8-HxCDD | mg/kg | 0-0.5 | 1 / 3 | 33 | 3.7 | 3.7 | 0.247 | 0.573 | 3.7 | 3.7 | N/A | N/A | -- | -- | 3.7 | Maximum Detect |
| 1,2,3,6,7,8-HxCDF | mg/kg | 0-0.5 | 2 / 3 | 67 | 1.23 | 6.9 | 0.545 | 0.545 | 4.065 | 4.065 | 16.07 | 4.009 | -- | -- | 6.9 | Maximum Detect |
| 1,2,3,7,8,9-HxCDD | mg/kg | 0-0.5 | 3 / 3 | 100 | 0.33 | 3.97 | N/A | N/A | 1.607 | 0.521 | 4.197 | 2.049 | -- | -- | 3.97 | Maximum Detect |
| 1,2,3,7,8,9-HxCDF | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.125 | 0.497 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-PeCDD | mg/kg | 0-0.5 | 2 / 3 | 67 | 0.209 | 1.21 | 0.161 | 0.161 | 0.71 | 0.71 | 0.501 | 0.708 | -- | -- | 1.21 | Maximum Detect |
| 1,2,3,7,8-PeCDF | mg/kg | 0-0.5 | 3 / 3 | 100 | 0.488 | 6.52 | N/A | N/A | 2.809 | 1.42 | 10.54 | 3.247 | -- | -- | 6.52 | Maximum Detect |
| 2,3,4,6,7,8-HxCDF | mg/kg | 0-0.5 | 2 / 3 | 67 | 0.785 | 5.7 | 0.332 | 0.332 | 3.243 | 3.243 | 12.08 | 3.475 | -- | -- | 5.7 | Maximum Detect |
| 2,3,4,7,8-PeCDF | mg/kg | 0-0.5 | 2 / 3 | 67 | 3.09 | 13 | 0.877 | 0.877 | 8.045 | 8.045 | 49.1 | 7.007 | -- | -- | 13 | Maximum Detect |
| 2,3,7,8-TCDD | mg/kg | 0-0.5 | 2 / 3 | 67 | 0.147 | 0.5 | 0.103 | 0.103 | 0.324 | 0.324 | 0.0623 | 0.25 | -- | -- | 0.5 | Maximum Detect |
| 2,3,7,8-TCDF | mg/kg | 0-0.5 | 3 / 3 | 100 | 1.91 | 33.3 | N/A | N/A | 14.8 | 9.18 | 270 | 16.43 | -- | -- | 33.3 | Maximum Detect |
| octa CDD | mg/kg | 0-0.5 | 3 / 3 | 100 | 45.3 | 2030 | N/A | N/A | 784.8 | 279 | 1176608 | 1085 | -- | -- | 2030 | Maximum Detect |
| octa CDF | mg/kg | 0-0.5 | 3 / 3 | 100 | 2.89 | 61.4 | N/A | N/A | 24 | 7.71 | 1055 | 32.48 | -- | -- | 61.4 | Maximum Detect |
| **Polychlorinated Biphenyl Congeners** | | | | | | | | | | | | | | | | |
| BZ#77 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.0034 | 0.013 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#105 | mg/kg | 0-0.5 | 3 / 3 | 100 | 0.014 | 0.047 | N/A | N/A | 0.0357 | 0.046 | 0.00035233 | 0.0188 | -- | -- | 0.047 | Maximum Detect |
| BZ#114 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 0-0.5 | 3 / 3 | 100 | 0.023 | 0.098 | N/A | N/A | 0.0707 | 0.091 | 0.00172 | 0.0414 | -- | -- | 0.098 | Maximum Detect |
| BZ#123 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 0-0.5 | 3 / 3 | 100 | 0.023 | 0.14 | N/A | N/A | 0.091 | 0.11 | 0.00369 | 0.0608 | -- | -- | 0.14 | Maximum Detect |
| BZ#156 | mg/kg | 0-0.5 | 3 / 3 | 100 | 0.0054 | 0.017 | N/A | N/A | 0.0111 | 0.011 | 0.000033653 | 0.0058 | -- | -- | 0.017 | Maximum Detect |
| BZ#157 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.0034 | 0.013 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.0017 | 0.0063 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **TEQ** | | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.00217 | 0.053 | -- | -- | 0.0229 | -- | -- | 0.0267 | -- | -- | 0.053 | Maximum Detect |
| Avian PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.00279 | 0.053 | -- | -- | 0.0231 | -- | -- | 0.0264 | -- | -- | 0.053 | Maximum Detect |
| Avian PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.00341 | 0.053 | -- | -- | 0.0233 | -- | -- | 0.0262 | -- | -- | 0.053 | Maximum Detect |
| Avian DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.00217 | 0.00728 | -- | -- | 0.00539 | -- | -- | 0.0028 | -- | -- | 0.00728 | Maximum Detect |
| Avian DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.301 | 1.13 | -- | -- | 0.76 | -- | -- | 0.422 | -- | -- | 1.13 | Maximum Detect |
| Avian DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.6 | 2.253 | -- | -- | 1.515 | -- | -- | 0.841 | -- | -- | 2.253 | Maximum Detect |
| Avian Total TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.00434 | 0.0603 | -- | -- | 0.0283 | -- | -- | 0.0288 | -- | -- | 0.0603 | Maximum Detect |
| Avian Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.304 | 1.183 | -- | -- | 0.783 | -- | -- | 0.445 | -- | -- | 1.183 | Maximum Detect |
| Avian Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.603 | 2.306 | -- | -- | 1.539 | -- | -- | 0.864 | -- | -- | 2.306 | Maximum Detect |
| Mammalian PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.000454 | 0.0151 | -- | -- | 0.00623 | -- | -- | 0.0078 | -- | -- | 0.0151 | Maximum Detect |
| Mammalian PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.000783 | 0.0152 | -- | -- | 0.00639 | -- | -- | 0.00772 | -- | -- | 0.0152 | Maximum Detect |
| Mammalian PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.00111 | 0.0153 | -- | -- | 0.00655 | -- | -- | 0.00765 | -- | -- | 0.0153 | Maximum Detect |
| Mammalian DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.00127 | 0.00483 | -- | -- | 0.00352 | -- | -- | 0.00196 | -- | -- | 0.00483 | Maximum Detect |
| Mammalian DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.113 | 0.417 | -- | -- | 0.283 | -- | -- | 0.155 | -- | -- | 0.417 | Maximum Detect |
| Mammalian DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.225 | 0.829 | -- | -- | 0.562 | -- | -- | 0.308 | -- | -- | 0.829 | Maximum Detect |
| Mammalian Total TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.00172 | 0.0199 | -- | -- | 0.00976 | -- | -- | 0.00929 | -- | -- | 0.0199 | Maximum Detect |
| Mammalian Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.114 | 0.432 | -- | -- | 0.289 | -- | -- | 0.162 | -- | -- | 0.432 | Maximum Detect |
| Mammalian Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.226 | 0.844 | -- | -- | 0.569 | -- | -- | 0.315 | -- | -- | 0.844 | Maximum Detect |
| Fish PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.000354 | 0.0149 | -- | -- | 0.00615 | -- | -- | 0.00771 | -- | -- | 0.0149 | Maximum Detect |
| Fish PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.00076 | 0.0149 | -- | -- | 0.00629 | -- | -- | 0.00755 | -- | -- | 0.0149 | Maximum Detect |
| Fish PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.00117 | 0.0149 | -- | -- | 0.00643 | -- | -- | 0.00741 | -- | -- | 0.0149 | Maximum Detect |
| Fish DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.000212 | 0.000805 | -- | -- | 0.00058733 | -- | -- | 0.00032643 | -- | -- | 0.000805 | Maximum Detect |
| Fish DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.00547 | 0.0204 | -- | -- | 0.0138 | -- | -- | 0.00762 | -- | -- | 0.0204 | Maximum Detect |
| Fish DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.0107 | 0.04 | -- | -- | 0.0271 | -- | -- | 0.0149 | -- | -- | 0.04 | Maximum Detect |
| Fish Total TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.000566 | 0.0157 | -- | -- | 0.00674 | -- | -- | 0.00794 | -- | -- | 0.0157 | Maximum Detect |
| Fish Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.00623 | 0.0353 | -- | -- | 0.0201 | -- | -- | 0.0146 | -- | -- | 0.0353 | Maximum Detect |
| Fish Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.0119 | 0.0549 | -- | -- | 0.0335 | -- | -- | 0.0215 | -- | -- | 0.0549 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 0-0.5 | 3 / 3 | 100 | 24 | 50 | N/A | N/A | 36.67 | 36 | 169.3 | 13.01 | -- | -- | 50 | Maximum Detect |
| Solids, percent | % | 0-0.5 | 19 / 19 | 100 | 43.5 | 82.4 | N/A | N/A | 65.55 | 67.9 | 135.3 | 11.63 | 70.18 | 95% Student's-t UCL | 70.18 | UCL |
| TOC by lloyd kahn | mg/kg | 0-0.5 | 32 / 53 | 166 | 870 | 40000 | 500 | 500 | 11977 | 7175 | 132700000 | 11518 | 10606 | 95% KM Approximate Gamma UCL | 10606 | UCL |

**Table F-1. Sediment Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Depth (ft bgs) | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | FOD | Minimum Detect | Maximum Detect | Minimum Nondetect | Maximum Nondetect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Lower Assessment Area** | | | | | | | | | | | | | | | | |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-hpcdd | mg/kg | 0-0.5 | 2 / 2 | 100 | 9.05 | 118 | N/A | N/A | 63.53 | 63.53 | 5935 | 77.04 | -- | -- | 118 | Maximum Detect |
| 1,2,3,4,6,7,8-hpcdf | mg/kg | 0-0.5 | 2 / 2 | 100 | 3.43 | 26.3 | N/A | N/A | 14.87 | 14.87 | 261.5 | 16.17 | -- | -- | 26.3 | Maximum Detect |
| 1,2,3,4,7,8,9-hpcdf | mg/kg | 0-0.5 | 2 / 2 | 100 | 0.66 | 6.43 | N/A | N/A | 3.545 | 3.545 | 16.65 | 4.08 | -- | -- | 6.43 | Maximum Detect |
| 1,2,3,4,7,8-hxcdd | mg/kg | 0-0.5 | 2 / 2 | 100 | 0.14 | 1.61 | N/A | N/A | 0.875 | 0.875 | 1.08 | 1.039 | -- | -- | 1.61 | Maximum Detect |
| 1,2,3,4,7,8-hxcdf | mg/kg | 0-0.5 | 2 / 2 | 100 | 2.08 | 16.5 | N/A | N/A | 9.29 | 9.29 | 104 | 10.2 | -- | -- | 16.5 | Maximum Detect |
| 1,2,3,6,7,8-hxcdd | mg/kg | 0-0.5 | 1 / 2 | 50 | 3.36 | 3.36 | 0.329 | 0.329 | 3.36 | 3.36 | N/A | N/A | -- | -- | 3.36 | Maximum Detect |
| 1,2,3,6,7,8-hxcdf | mg/kg | 0-0.5 | 1 / 2 | 50 | 5.64 | 5.64 | 0.753 | 0.753 | 5.64 | 5.64 | N/A | N/A | -- | -- | 5.64 | Maximum Detect |
| 1,2,3,7,8,9-hxcdd | mg/kg | 0-0.5 | 2 / 2 | 100 | 0.36 | 5.25 | N/A | N/A | 2.805 | 2.805 | 11.96 | 3.458 | -- | -- | 5.25 | Maximum Detect |
| 1,2,3,7,8,9-hxcdf | mg/kg | 0-0.5 | 0 / 2 | 0 | N/A | N/A | 0.114 | 0.51 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-pecdd | mg/kg | 0-0.5 | 1 / 2 | 50 | 1.08 | 1.08 | 0.124 | 0.124 | 1.08 | 1.08 | N/A | N/A | -- | -- | 1.08 | Maximum Detect |
| 1,2,3,7,8-pecdf | mg/kg | 0-0.5 | 2 / 2 | 100 | 0.874 | 5 | N/A | N/A | 2.937 | 2.937 | 8.512 | 2.918 | -- | -- | 5 | Maximum Detect |
| 2,3,4,6,7,8-hxcdf | mg/kg | 0-0.5 | 1 / 2 | 50 | 4.06 | 4.06 | 0.551 | 0.551 | 4.06 | 4.06 | N/A | N/A | -- | -- | 4.06 | Maximum Detect |
| 2,3,4,7,8-pecdf | mg/kg | 0-0.5 | 2 / 2 | 100 | 2.04 | 12.8 | N/A | N/A | 7.42 | 7.42 | 57.89 | 7.608 | -- | -- | 12.8 | Maximum Detect |
| 2,3,7,8-tcdd | mg/kg | 0-0.5 | 0 / 2 | 0 | N/A | N/A | 0.104 | 0.247 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-tcdf | mg/kg | 0-0.5 | 2 / 2 | 100 | 5.92 | 30.8 | N/A | N/A | 18.36 | 18.36 | 309.5 | 17.59 | -- | -- | 30.8 | Maximum Detect |
| octa cdd | mg/kg | 0-0.5 | 2 / 2 | 100 | 170 | 2100 | N/A | N/A | 1135 | 1135 | 1862450 | 1365 | -- | -- | 2100 | Maximum Detect |
| octa cdf | mg/kg | 0-0.5 | 2 / 2 | 100 | 5.56 | 48.5 | N/A | N/A | 27.03 | 27.03 | 921.9 | 30.36 | -- | -- | 48.5 | Maximum Detect |
| **Polychlorinated Biphenyl Congeners** | | | | | | | | | | | | | | | | |
| BZ#77 | mg/kg | 0-0.5 | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0-0.5 | 0 / 2 | 0 | N/A | N/A | 0.0039 | 0.011 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#105 | mg/kg | 0-0.5 | 2 / 2 | 100 | 0.017 | 0.044 | N/A | N/A | 0.0305 | 0.0305 | 0.0003645 | 0.0191 | -- | -- | 0.044 | Maximum Detect |
| BZ#114 | mg/kg | 0-0.5 | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 0-0.5 | 2 / 2 | 100 | 0.027 | 0.094 | N/A | N/A | 0.0605 | 0.0605 | 0.00224 | 0.0474 | -- | -- | 0.094 | Maximum Detect |
| BZ#123 | mg/kg | 0-0.5 | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0-0.5 | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 0-0.5 | 2 / 2 | 100 | 0.022 | 0.13 | N/A | N/A | 0.076 | 0.076 | 0.00583 | 0.0764 | -- | -- | 0.13 | Maximum Detect |
| BZ#156 | mg/kg | 0-0.5 | 2 / 2 | 100 | 0.0036 | 0.015 | N/A | N/A | 0.0093 | 0.0093 | 0.00006498 | 0.00806 | -- | -- | 0.015 | Maximum Detect |
| BZ#157 | mg/kg | 0-0.5 | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0-0.5 | 0 / 2 | 0 | N/A | N/A | 0.0039 | 0.011 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0-0.5 | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0-0.5 | 0 / 2 | 0 | N/A | N/A | 0.002 | 0.0057 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **TEQ** | | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.00837 | 0.0491 | -- | -- | 0.0287 | -- | -- | 0.0288 | -- | -- | 0.0491 | Maximum Detect |
| Avian PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.00855 | 0.0492 | -- | -- | 0.0289 | -- | -- | 0.0287 | -- | -- | 0.0492 | Maximum Detect |
| Avian PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.00873 | 0.0493 | -- | -- | 0.029 | -- | -- | 0.0287 | -- | -- | 0.0493 | Maximum Detect |
| Avian DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.00233 | 0.00684 | -- | -- | 0.00459 | -- | -- | 0.00319 | -- | -- | 0.00684 | Maximum Detect |
| Avian DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.349 | 0.988 | -- | -- | 0.669 | -- | -- | 0.452 | -- | -- | 0.988 | Maximum Detect |
| Avian DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.696 | 1.969 | -- | -- | 1.332 | -- | -- | 0.9 | -- | -- | 1.969 | Maximum Detect |
| Avian Total TEQ (ND=0) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.0107 | 0.0559 | -- | -- | 0.0333 | -- | -- | 0.032 | -- | -- | 0.0559 | Maximum Detect |
| Avian Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.358 | 1.037 | -- | -- | 0.697 | -- | -- | 0.481 | -- | -- | 1.037 | Maximum Detect |
| Avian Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.704 | 2.018 | -- | -- | 1.361 | -- | -- | 0.929 | -- | -- | 2.018 | Maximum Detect |
| Mammalian PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.00167 | 0.0139 | -- | -- | 0.00779 | -- | -- | 0.00865 | -- | -- | 0.0139 | Maximum Detect |
| Mammalian PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.00187 | 0.0141 | -- | -- | 0.00799 | -- | -- | 0.00865 | -- | -- | 0.0141 | Maximum Detect |
| Mammalian PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.00207 | 0.0143 | -- | -- | 0.00819 | -- | -- | 0.00865 | -- | -- | 0.0143 | Maximum Detect |
| Mammalian DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.00143 | 0.00459 | -- | -- | 0.00301 | -- | -- | 0.00223 | -- | -- | 0.00459 | Maximum Detect |
| Mammalian DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.132 | 0.378 | -- | -- | 0.255 | -- | -- | 0.174 | -- | -- | 0.378 | Maximum Detect |
| Mammalian DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.263 | 0.751 | -- | -- | 0.507 | -- | -- | 0.346 | -- | -- | 0.751 | Maximum Detect |
| Mammalian Total TEQ (ND=0) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.0031 | 0.0185 | -- | -- | 0.0108 | -- | -- | 0.0109 | -- | -- | 0.0185 | Maximum Detect |
| Mammalian Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.134 | 0.392 | -- | -- | 0.263 | -- | -- | 0.183 | -- | -- | 0.392 | Maximum Detect |
| Mammalian Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.265 | 0.766 | -- | -- | 0.515 | -- | -- | 0.354 | -- | -- | 0.766 | Maximum Detect |
| Fish PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.00171 | 0.0134 | -- | -- | 0.00756 | -- | -- | 0.00827 | -- | -- | 0.0134 | Maximum Detect |
| Fish PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.0019 | 0.0136 | -- | -- | 0.00775 | -- | -- | 0.00827 | -- | -- | 0.0136 | Maximum Detect |
| Fish PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.00209 | 0.0138 | -- | -- | 0.00795 | -- | -- | 0.00828 | -- | -- | 0.0138 | Maximum Detect |
| Fish DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.000238 | 0.000765 | -- | -- | 0.0005015 | -- | -- | 0.00037265 | -- | -- | 0.000765 | Maximum Detect |
| Fish DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.00639 | 0.0183 | -- | -- | 0.0123 | -- | -- | 0.00842 | -- | -- | 0.0183 | Maximum Detect |
| Fish DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.0125 | 0.0358 | -- | -- | 0.0242 | -- | -- | 0.0165 | -- | -- | 0.0358 | Maximum Detect |
| Fish Total TEQ (ND=0) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.00195 | 0.0142 | -- | -- | 0.00806 | -- | -- | 0.00864 | -- | -- | 0.0142 | Maximum Detect |
| Fish Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.00829 | 0.0319 | -- | -- | 0.0201 | -- | -- | 0.0167 | -- | -- | 0.0319 | Maximum Detect |
| Fish Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 2 / 2 | 100 | 0.0146 | 0.0496 | -- | -- | 0.0321 | -- | -- | 0.0248 | -- | -- | 0.0496 | Maximum Detect |
| **Miscellaneous** | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 0-0.5 | 2 / 2 | 100 | 25 | 47 | N/A | N/A | 36 | 36 | 242 | 15.56 | -- | -- | 47 | Maximum Detect |
| Solids, percent | % | 0-0.5 | 19 / 19 | 100 | 48.1 | 90.4 | N/A | N/A | 68.46 | 69.4 | 134.8 | 11.61 | 73.08 | 95% Student's-t UCL | 73.08 | UCL |
| TOC by lloyd kahn | mg/kg | 0-0.5 | 102 / 125 | 123 | 870 | 60000 | 500 | 1320 | 17541 | 16100 | 155100000 | 12454 | 19498 | 95% KM (Chebyshev) UCL | 19498 | UCL |

**Table F-1. Sediment Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Depth (ft bgs) | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | FOD | Minimum Detect | Maximum Detect | Minimum Nondetect | Maximum Nondetect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Reference Areas** | | | | | | | | | | | | | | | | |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-HpCDD | mg/kg | 0-0.5 | 3 / 3 | 100 | 7.74 | 22.9 | N/A | N/A | 14.11 | 11.7 | 61.82 | 7.863 | -- | -- | 22.9 | Maximum Detect |
| 1,2,3,4,6,7,8-HpCDF | mg/kg | 0-0.5 | 2 / 3 | 67 | 0.385 | 4.16 | 0.632 | 0.632 | 2.273 | 2.273 | 7.125 | 2.669 | -- | -- | 4.16 | Maximum Detect |
| 1,2,3,4,7,8,9-HpCDF | mg/kg | 0-0.5 | 1 / 3 | 33 | 0.452 | 0.452 | 0.216 | 0.226 | 0.452 | 0.452 | N/A | N/A | -- | -- | 0.452 | Maximum Detect |
| 1,2,3,4,7,8-HxCDD | mg/kg | 0-0.5 | 1 / 3 | 33 | 0.233 | 0.233 | 0.209 | 0.259 | 0.233 | 0.233 | N/A | N/A | -- | -- | 0.233 | Maximum Detect |
| 1,2,3,4,7,8-HxCDF | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.175 | 0.312 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,6,7,8-HxCDD | mg/kg | 0-0.5 | 2 / 3 | 67 | 0.243 | 0.515 | 0.268 | 0.268 | 0.379 | 0.379 | 0.037 | 0.192 | -- | -- | 0.515 | Maximum Detect |
| 1,2,3,6,7,8-HxCDF | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.267 | 0.389 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8,9-HxCDD | mg/kg | 0-0.5 | 1 / 3 | 33 | 0.557 | 0.557 | 0.283 | 0.693 | 0.557 | 0.557 | N/A | N/A | -- | -- | 0.557 | Maximum Detect |
| 1,2,3,7,8,9-HxCDF | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.177 | 0.316 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-PeCDD | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.222 | 0.416 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 1,2,3,7,8-PeCDF | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.207 | 0.373 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,4,6,7,8-HxCDF | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.176 | 0.315 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,4,7,8-PeCDF | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.195 | 0.351 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-TCDD | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.18 | 0.31 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| 2,3,7,8-TCDF | mg/kg | 0-0.5 | 1 / 3 | 33 | 0.286 | 0.286 | 0.209 | 0.254 | 0.286 | 0.286 | N/A | N/A | -- | -- | 0.286 | Maximum Detect |
| octa CDD | mg/kg | 0-0.5 | 3 / 3 | 100 | 341 | 991 | N/A | N/A | 593.3 | 448 | 121466 | 348.5 | -- | -- | 991 | Maximum Detect |
| octa CDF | mg/kg | 0-0.5 | 3 / 3 | 100 | 0.78 | 20.1 | N/A | N/A | 7.367 | 1.22 | 121.7 | 11.03 | -- | -- | 20.1 | Maximum Detect |
| **Polychlorinated Biphenyl Congeners** | | | | | | | | | | | | | | | | |
| BZ#77 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.004 | 0.0046 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#105 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#114 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#123 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.004 | 0.0046 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#156 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#157 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#167 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.004 | 0.0046 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0-0.5 | 0 / 3 | 0 | N/A | N/A | 0.002 | 0.0023 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **TEQ** | | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.0000458 | 0.000401 | -- | -- | 0.00021127 | -- | -- | 0.00017884 | -- | -- | 0.000401 | Maximum Detect |
| Avian PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.000757 | 0.000817 | -- | -- | 0.00078133 | -- | -- | 0.000031565 | -- | -- | 0.000817 | Maximum Detect |
| Avian PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.00114 | 0.00159 | -- | -- | 0.00135 | -- | -- | 0.00022559 | -- | -- | 0.00159 | Maximum Detect |
| Avian DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- | 0 | Maximum Detect |
| Avian DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.351 | 0.404 | -- | -- | 0.385 | -- | -- | 0.0293 | -- | -- | 0.404 | Maximum Detect |
| Avian DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.702 | 0.808 | -- | -- | 0.769 | -- | -- | 0.0585 | -- | -- | 0.808 | Maximum Detect |
| Avian Total TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.0000458 | 0.000401 | -- | -- | 0.00021127 | -- | -- | 0.00017884 | -- | -- | 0.000401 | Maximum Detect |
| Avian Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.352 | 0.405 | -- | -- | 0.385 | -- | -- | 0.0292 | -- | -- | 0.405 | Maximum Detect |
| Avian Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.704 | 0.809 | -- | -- | 0.771 | -- | -- | 0.0583 | -- | -- | 0.809 | Maximum Detect |
| Mammalian PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.000184 | 0.000653 | -- | -- | 0.000399 | -- | -- | 0.00023692 | -- | -- | 0.000653 | Maximum Detect |
| Mammalian PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.000659 | 0.00102 | -- | -- | 0.00080067 | -- | -- | 0.00019262 | -- | -- | 0.00102 | Maximum Detect |
| Mammalian PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.000958 | 0.00139 | -- | -- | 0.0012 | -- | -- | 0.00022064 | -- | -- | 0.00139 | Maximum Detect |
| Mammalian DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- | 0 | Maximum Detect |
| Mammalian DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.131 | 0.151 | -- | -- | 0.144 | -- | -- | 0.0115 | -- | -- | 0.151 | Maximum Detect |
| Mammalian DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.262 | 0.302 | -- | -- | 0.289 | -- | -- | 0.0231 | -- | -- | 0.302 | Maximum Detect |
| Mammalian Total TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.000184 | 0.000653 | -- | -- | 0.000399 | -- | -- | 0.00023692 | -- | -- | 0.000653 | Maximum Detect |
| Mammalian Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.132 | 0.152 | -- | -- | 0.145 | -- | -- | 0.0116 | -- | -- | 0.152 | Maximum Detect |
| Mammalian Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.263 | 0.303 | -- | -- | 0.29 | -- | -- | 0.023 | -- | -- | 0.303 | Maximum Detect |
| Fish PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.0000458 | 0.000292 | -- | -- | 0.0001389 | -- | -- | 0.00013362 | -- | -- | 0.000292 | Maximum Detect |
| Fish PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.000441 | 0.000652 | -- | -- | 0.00057933 | -- | -- | 0.00011985 | -- | -- | 0.000652 | Maximum Detect |
| Fish PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.0008031 | 0.00124 | -- | -- | 0.00102 | -- | -- | 0.00022065 | -- | -- | 0.00124 | Maximum Detect |
| Fish DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- | 0 | Maximum Detect |
| Fish DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.0062 | 0.00712 | -- | -- | 0.00681 | -- | -- | 0.00052548 | -- | -- | 0.00712 | Maximum Detect |
| Fish DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.0124 | 0.0142 | -- | -- | 0.0136 | -- | -- | 0.00105 | -- | -- | 0.0142 | Maximum Detect |
| Fish Total TEQ (ND=0) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.0000458 | 0.000292 | -- | -- | 0.0001389 | -- | -- | 0.00013362 | -- | -- | 0.000292 | Maximum Detect |
| Fish Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.00685 | 0.00777 | -- | -- | 0.00739 | -- | -- | 0.00048255 | -- | -- | 0.00777 | Maximum Detect |
| Fish Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 3 / 3 | 100 | 0.0136 | 0.0153 | -- | -- | 0.0146 | -- | -- | 0.00086541 | -- | -- | 0.0153 | Maximum Detect |

**Table F-1. Sediment Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Depth (ft bgs) | Summary Statistics | | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects | / | Total | FOD | Minimum Detect | Maximum Detect | Minimum Nondetect | Maximum Nondetect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Miscellaneous** | | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 0-0.5 | 3 | / | 3 | 100 | 20 | 33 | N/A | N/A | 24.33 | 20 | 56.33 | 7.506 | -- | -- | 33 | Maximum Detect |
| Solids, percent | % | 0-0.5 | 21 | / | 21 | 100 | 28.7 | 93.6 | N/A | N/A | 64.17 | 67.5 | 344.3 | 18.56 | 71.15 | 95% Student's-t UCL | 71.15 | UCL |
| TOC by lloyd kahn | mg/kg | 0-0.5 | 19 | / | 21 | 111 | 1560 | 128000 | 1150 | 1220 | 20386 | 6830 | 883400000 | 29721 | 46006 | 95% KM (Chebyshev) UCL | 46006 | UCL |

**Notes:**

%: percent
CDD: chlorodibenzo-p-dioxin
CDF: chlorodibenzo-p-furan
DL: dioxin-like
DL-PCB: dioxin-like polychlorinated biphenyl
EPC: exposure point concentration
FOD: frequency of detection
ft bgs: feet below ground surface
HpCDD: heptachlorodibenzo-p-dioxin
HpCDF: heptachlorodibenzofuran
HxCDD: hexachlorodibenzo-p-dioxin
HxCDF: hexachlorodibenzofuran
KM: Kaplan-Meier
mg/kg: milligram per kilogram
n: number of samples
N/A: not applicable
ND: nondetect
ng/kg: nanogram per kilogram
PCDD: polychlorinated dibenzodioxin
PCDF: polychlorinated dibenzofuran
PeCDD: pentachlorodibenzo-p-dioxin
PeCDF: pentachlorodibenzofuran
RPD: relative percent difference
Sd: standard deviation
TCDD: tetrachlorodibenzo-p-dioxin
TCDF: tetrachlorodibenzofuran
TEQ: toxic equivalent
TOC: total organic carbon
UCL: upper confidence limit
µg/kg: microgram per kilogram

**Table F-2. Soil Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Depth (ft bgs) | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | | | FOD | Minimum Detect | Maximum Detect | Minimum Nondetect | Maximum Nondetect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Upper Assessment Area** | | | | | | | | | | | | | | | | | |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-HpCDD | ng/kg | 0-0.5 | 38 | / | 38 | 100 | 22.5 | 178 | N/A | N/A | 89.12 | 92.25 | 1341 | 36.62 | 99.14 | 95% Student's-t UCL | 99.14 | UCL |
| 1,2,3,4,6,7,8-HpCDF | ng/kg | 0-0.5 | 29 | / | 38 | 76 | 10.7 | 71.6 | 4.83 | 70.8 | 36.4 | 35.6 | 198.8 | 14.1 | 36.31 | 95% KM (t) UCL | 36.31 | UCL |
| 1,2,3,4,7,8,9-HpCDF | ng/kg | 0-0.5 | 36 | / | 38 | 95 | 1.1 | 16.4 | 2.84 | 3.66 | 8.276 | 8.035 | 14.49 | 3.807 | 9.044 | 95% KM (t) UCL | 9.044 | UCL |
| 1,2,3,4,7,8-HxCDD | ng/kg | 0-0.5 | 34 | / | 38 | 89 | 0.489 | 2.8 | 0.276 | 0.842 | 1.139 | 1.12 | 0.202 | 0.45 | 1.155 | 95% KM Student's t | 1.155 | UCL |
| 1,2,3,4,7,8-HxCDF | ng/kg | 0-0.5 | 38 | / | 38 | 100 | 4.19 | 59 | N/A | N/A | 29.21 | 26.85 | 217 | 14.73 | 33.24 | 95% Student's-t UCL | 33.24 | UCL |
| 1,2,3,6,7,8-HxCDD | ng/kg | 0-0.5 | 34 | / | 38 | 89 | 0.49 | 7.01 | 0.95 | 2.04 | 2.877 | 2.75 | 2.027 | 1.424 | 3.087 | 95% KM (t) UCL | 3.087 | UCL |
| 1,2,3,6,7,8-HxCDF | ng/kg | 0-0.5 | 36 | / | 38 | 95 | 1.1 | 94.6 | 3.35 | 5.59 | 13.87 | 8.16 | 313.5 | 17.71 | 17.64 | 95% KM H-UCL | 17.64 | UCL |
| 1,2,3,7,8,9-HxCDD | ng/kg | 0-0.5 | 34 | / | 38 | 89 | 0.659 | 7.38 | 1.38 | 3.36 | 2.929 | 2.82 | 1.858 | 1.363 | 3.196 | 95% GROS Adjusted Gamma UCL | 3.196 | UCL |
| 1,2,3,7,8,9-HxCDF | ng/kg | 0-0.5 | 24 | / | 38 | 63 | 0.315 | 1.17 | 0.165 | 2.46 | 0.761 | 0.819 | 0.0687 | 0.262 | 0.746 | 95% KM (t) UCL | 0.746 | UCL |
| 1,2,3,7,8-PeCDD | ng/kg | 0-0.5 | 26 | / | 38 | 68 | 0.283 | 1.36 | 0.148 | 1.11 | 0.605 | 0.55 | 0.0739 | 0.272 | 0.612 | 95% GROS Adjusted Gamma UCL | 0.612 | UCL |
| 1,2,3,7,8-PeCDF | ng/kg | 0-0.5 | 35 | / | 38 | 92 | 1.11 | 15.2 | 2.7 | 45.7 | 7.094 | 6.4 | 12.31 | 3.508 | 7.945 | 95% KM (t) UCL | 7.945 | UCL |
| 2,3,4,6,7,8-HxCDF | ng/kg | 0-0.5 | 38 | / | 38 | 100 | 0.72 | 9.77 | N/A | N/A | 4.561 | 4.575 | 4.646 | 2.155 | 5.151 | 95% Student's-t UCL | 5.151 | UCL |
| 2,3,4,7,8-PeCDF | ng/kg | 0-0.5 | 38 | / | 38 | 100 | 1.63 | 28.4 | N/A | N/A | 13.26 | 11.8 | 46.28 | 6.803 | 15.12 | 95% Student's-t UCL | 15.12 | UCL |
| 2,3,7,8-TCDD | ng/kg | 0-0.5 | 6 | / | 38 | 16 | 0.137 | 0.327 | 0.0722 | 1.38 | 0.227 | 0.223 | 0.00442 | 0.0665 | 0.131 | 95% KM (t) UCL | 0.131 | UCL |
| 2,3,7,8-TCDF | ng/kg | 0-0.5 | 36 | / | 38 | 95 | 1.71 | 81 | 7.65 | 56.8 | 21.59 | 18.4 | 250.9 | 15.84 | 25.86 | 95% GROS Adjusted Gamma UCL | 25.86 | UCL |
| octa CDD | ng/kg | 0-0.5 | 38 | / | 38 | 100 | 353 | 9960 | N/A | N/A | 3101 | 2325 | 4421036 | 2103 | 3737 | 95% Adjusted Gamma UCL | 3737 | UCL |
| octa CDF | ng/kg | 0-0.5 | 36 | / | 38 | 95 | 7.73 | 141 | 28.6 | 55.7 | 67.8 | 65 | 957.4 | 30.94 | 74.35 | 95% KM (t) UCL | 74.35 | UCL |
| **Polychlorinated Biphenyl Congeners** | | | | | | | | | | | | | | | | | | |
| BZ#77 | mg/kg | 0-0.5 | 0 | / | 39 | 0 | N/A | N/A | 0.0016 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#81 | mg/kg | 0-0.5 | 0 | / | 39 | 0 | N/A | N/A | 0.0032 | 0.034 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#105 | mg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.012 | 0.14 | N/A | N/A | 0.0615 | 0.053 | 0.00128 | 0.0357 | 0.0712 | 95% Student's-t UCL | 0.0712 | UCL |
| BZ#114 | mg/kg | 0-0.5 | 1 | / | 39 | 3 | 0.0089 | 0.0089 | 0.0016 | 0.017 | 0.0089 | 0.0089 | N/A | N/A | -- | -- | 0.0089 | Maximum Detect |
| BZ#118 | mg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.024 | 0.28 | N/A | N/A | 0.116 | 0.11 | 0.00443 | 0.0666 | 0.134 | 95% Student's-t UCL | 0.134 | UCL |
| BZ#123 | mg/kg | 0-0.5 | 0 | / | 39 | 0 | N/A | N/A | 0.0016 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0-0.5 | 4 | / | 39 | 10 | 0.016 | 0.028 | 0.0015 | 0.017 | 0.0203 | 0.0185 | 0.000029583 | 0.00544 | -- | -- | 0.028 | Maximum Detect |
| BZ#153 | mg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.048 | 0.42 | N/A | N/A | 0.184 | 0.16 | 0.00964 | 0.0982 | 0.21 | 95% Student's-t UCL | 0.21 | UCL |
| BZ#156 | mg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.005 | 0.048 | N/A | N/A | 0.0209 | 0.02 | 0.00012208 | 0.011 | 0.0239 | 95% Student's-t UCL | 0.0239 | UCL |
| BZ#157 | mg/kg | 0-0.5 | 18 | / | 39 | 46 | 0.0018 | 0.017 | 0.0032 | 0.017 | 0.00765 | 0.0082 | 0.00001433 | 0.00379 | 0.00674 | 95% KM (t) UCL | 0.00674 | UCL |
| BZ#167 | mg/kg | 0-0.5 | 11 | / | 39 | 28 | 0.0027 | 0.015 | 0.0037 | 0.034 | 0.00883 | 0.0088 | 0.000018618 | 0.00431 | 0.00802 | 95% KM (t) UCL | 0.00802 | UCL |
| BZ#169 | mg/kg | 0-0.5 | 0 | / | 39 | 0 | N/A | N/A | 0.0015 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0-0.5 | 0 | / | 39 | 0 | N/A | N/A | 0.0015 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **TEQ** | | | | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 38 | / | 38 | 100 | 0.00429 | 0.106 | -- | -- | 0.0407 | -- | -- | 0.0212 | 0.0465 | 95% Student's-t UCL | 0.0465 | UCL |
| Avian PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 38 | / | 38 | 100 | 0.0045 | 0.107 | -- | -- | 0.0419 | -- | -- | 0.022 | 0.0479 | 95% Student's-t UCL | 0.0479 | UCL |
| Avian PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 38 | / | 38 | 100 | 0.00471 | 0.108 | -- | -- | 0.0431 | -- | -- | 0.0238 | 0.0496 | 95% Student's-t UCL | 0.0496 | UCL |
| Avian DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.00205 | 2.81 | -- | -- | 0.217 | -- | -- | 0.641 | 0.665 | 95% Chebyshev (Mean, Sd) UCL | 0.665 | UCL |
| Avian DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.285 | 4.27 | -- | -- | 1.575 | -- | -- | 0.954 | 1.88 | 95% Adjusted Gamma UCL | 1.88 | UCL |
| Avian DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.565 | 5.985 | -- | -- | 2.932 | -- | -- | 1.567 | 3.45 | 95% Adjusted Gamma UCL | 3.45 | UCL |
| Avian Total TEQ (ND=0) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.00259 | 2.855 | -- | -- | 0.257 | -- | -- | 0.642 | 0.705 | 95% Chebyshev (Mean, Sd) UCL | 0.705 | UCL |
| Avian Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.3 | 4.315 | -- | -- | 1.615 | -- | -- | 0.962 | 1.925 | 95% Adjusted Gamma UCL | 1.925 | UCL |
| Avian Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.585 | 6.088 | -- | -- | 2.974 | -- | -- | 1.578 | 3.497 | 95% Adjusted Gamma UCL | 3.497 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 38 | / | 38 | 100 | 0.00205 | 0.0269 | -- | -- | 0.0142 | -- | -- | 0.00591 | 0.0158 | 95% Student's-t UCL | 0.0158 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 38 | / | 38 | 100 | 0.00226 | 0.0308 | -- | -- | 0.0146 | -- | -- | 0.00625 | 0.0163 | 95% Student's-t UCL | 0.0163 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 38 | / | 38 | 100 | 0.00247 | 0.0352 | -- | -- | 0.015 | -- | -- | 0.00666 | 0.0169 | 95% Student's-t UCL | 0.0169 | UCL |
| Mammalian DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.00127 | 2.81 | -- | -- | 0.214 | -- | -- | 0.641 | 0.662 | 95% Chebyshev (Mean, Sd) UCL | 0.662 | UCL |
| Mammalian DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.1 | 2.92 | -- | -- | 0.673 | -- | -- | 0.588 | 0.884 | 95% H-UCL | 0.884 | UCL |
| Mammalian DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.198 | 3.03 | -- | -- | 1.131 | -- | -- | 0.674 | 1.352 | 95% Adjusted Gamma UCL | 1.352 | UCL |
| Mammalian Total TEQ (ND=0) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.00163 | 2.826 | -- | -- | 0.228 | -- | -- | 0.642 | 0.676 | 95% Chebyshev (Mean, Sd) UCL | 0.676 | UCL |
| Mammalian Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.1 | 2.936 | -- | -- | 0.687 | -- | -- | 0.59 | 0.9 | 95% H-UCL | 0.9 | UCL |
| Mammalian Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.198 | 3.046 | -- | -- | 1.146 | -- | -- | 0.678 | 1.368 | 95% Adjusted Gamma UCL | 1.368 | UCL |
| Fish PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 38 | / | 38 | 100 | 0.00174 | 0.0312 | -- | -- | 0.0145 | -- | -- | 0.00675 | 0.0163 | 95% Student's-t UCL | 0.0163 | UCL |
| Fish PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 38 | / | 38 | 100 | 0.002 | 0.0343 | -- | -- | 0.0149 | -- | -- | 0.00701 | 0.0168 | 95% Student's-t UCL | 0.0168 | UCL |
| Fish PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 38 | / | 38 | 100 | 0.00226 | 0.0374 | -- | -- | 0.0153 | -- | -- | 0.0073 | 0.0173 | 95% Student's-t UCL | 0.0173 | UCL |
| Fish DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.000212 | 0.141 | -- | -- | 0.0114 | -- | -- | 0.032 | 0.0337 | 95% Chebyshev (Mean, Sd) UCL | 0.0337 | UCL |
| Fish DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.00538 | 0.148 | -- | -- | 0.0333 | -- | -- | 0.0298 | 0.0435 | 95% H-UCL | 0.0435 | UCL |
| Fish DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.0103 | 0.155 | -- | -- | 0.0551 | -- | -- | 0.0336 | 0.066 | 95% Adjusted Gamma UCL | 0.066 | UCL |
| Fish Total TEQ (ND=0) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.000272 | 0.156 | -- | -- | 0.0255 | -- | -- | 0.0329 | 0.0484 | 95% Chebyshev (Mean, Sd) UCL | 0.0484 | UCL |
| Fish Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.00538 | 0.164 | -- | -- | 0.0478 | -- | -- | 0.0327 | 0.0578 | 95% Adjusted Gamma UCL | 0.0578 | UCL |
| Fish Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 39 | / | 39 | 100 | 0.0105 | 0.171 | -- | -- | 0.07 | -- | -- | 0.0381 | 0.0827 | 95% Adjusted Gamma UCL | 0.0827 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 0-0.5 | 94 | / | 94 | 100 | 6.29 | 32 | N/A | N/A | 17.83 | 17.25 | 27.37 | 5.231 | 18.73 | 95% Student's-t UCL | 18.73 | UCL |
| Solids, percent | % | 0-0.5 | 422 | / | 422 | 100 | 33.1 | 95 | N/A | N/A | 78.53 | 78.65 | 41.43 | 6.437 | 79.05 | 95% Student's-t UCL | 79.05 | UCL |
| TOC by lloyd kahn | mg/kg | 0-0.5 | 459 | / | 459 | 100 | 2510 | 71300 | N/A | N/A | 17369 | 15900 | 85372493 | 9240 | 18083 | 95% Approximate Gamma UCL | 18083 | UCL |

**Table F-2. Soil Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Depth (ft bgs) | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects | / | Total | FOD | Minimum Detect | Maximum Detect | Minimum Nondetect | Maximum Nondetect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Middle Assessment Area** | | | | | | | | | | | | | | | | | | |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-HpCDD | ng/kg | 0-0.5 | 34 | / | 34 | 100 | 25.5 | 425 | N/A | N/A | 109.6 | 88.45 | 6422 | 80.14 | 132.9 | 95% Student's-t UCL | 132.9 | UCL |
| 1,2,3,4,6,7,8-HpCDF | ng/kg | 0-0.5 | 23 | / | 34 | 68 | 8.87 | 156 | 13.3 | 66.7 | 51.54 | 45 | 1148 | 33.88 | 50.82 | 95% KM (t) UCL | 50.82 | UCL |
| 1,2,3,4,7,8,9-HpCDF | ng/kg | 0-0.5 | 33 | / | 34 | 97 | 1.37 | 54.5 | 13.5 | 13.5 | 10.99 | 9.55 | 94.46 | 9.719 | 13.57 | 95% GROS Adjusted Gamma UCL | 13.57 | UCL |
| 1,2,3,4,7,8-HxCDD | ng/kg | 0-0.5 | 25 | / | 34 | 74 | 0.314 | 3.19 | 0.24 | 5.6 | 1.386 | 1.2 | 0.619 | 0.787 | 1.433 | 95% KM (t) UCL | 1.433 | UCL |
| 1,2,3,4,7,8-HxCDF | ng/kg | 0-0.5 | 33 | / | 34 | 97 | 5.54 | 183 | 6.63 | 6.63 | 37.97 | 29.9 | 1235 | 35.14 | 50.19 | 95% GROS Adjusted Gamma UCL | 50.19 | UCL |
| 1,2,3,6,7,8-HxCDD | ng/kg | 0-0.5 | 30 | / | 34 | 88 | 0.949 | 17.6 | 1.23 | 5.81 | 4.811 | 3.85 | 12.75 | 3.571 | 5.468 | 95% KM (t) UCL | 5.468 | UCL |
| 1,2,3,6,7,8-HxCDF | ng/kg | 0-0.5 | 29 | / | 34 | 85 | 1.4 | 372 | 8.67 | 23.9 | 71.21 | 43.3 | 6764 | 82.24 | 94.96 | 95% Gamma Adjusted KM-UCL | 94.96 | UCL |
| 1,2,3,7,8,9-HxCDD | ng/kg | 0-0.5 | 24 | / | 34 | 71 | 0.708 | 8.21 | 1.07 | 7.81 | 3.987 | 4.205 | 4.864 | 2.205 | 4.07 | 95% KM (t) UCL | 4.07 | UCL |
| 1,2,3,7,8,9-HxCDF | ng/kg | 0-0.5 | 9 | / | 34 | 26 | 0.223 | 1.83 | 0.505 | 6.71 | 0.878 | 0.704 | 0.316 | 0.562 | 0.813 | 95% KM (t) UCL | 0.813 | UCL |
| 1,2,3,7,8-PeCDD | ng/kg | 0-0.5 | 3 | / | 34 | 9 | 0.393 | 1.56 | 0.11 | 2.41 | 0.833 | 0.547 | 0.402 | 0.634 | -- | -- | 1.56 | Maximum Detect |
| 1,2,3,7,8-PeCDF | ng/kg | 0-0.5 | 19 | / | 34 | 56 | 1.83 | 1140 | 0.815 | 780 | 67.79 | 6.34 | 67440 | 259.7 | 186 | 95% KM (Chebyshev) UCL | 186 | UCL |
| 2,3,4,6,7,8-HxCDF | ng/kg | 0-0.5 | 23 | / | 34 | 68 | 1.01 | 16.3 | 3.45 | 15.5 | 5.194 | 4.36 | 13.94 | 3.734 | 5.52 | 95% KM (t) UCL | 5.52 | UCL |
| 2,3,4,7,8-PeCDF | ng/kg | 0-0.5 | 32 | / | 34 | 94 | 3.17 | 73.7 | 3.61 | 15.3 | 15.79 | 11.15 | 189.5 | 13.77 | 20.28 | 95% GROS Adjusted Gamma UCL | 20.28 | UCL |
| 2,3,7,8-TCDD | ng/kg | 0-0.5 | 2 | / | 34 | 6 | 0.136 | 0.543 | 0.106 | 13.9 | 0.34 | 0.34 | 0.0828 | 0.288 | -- | -- | 0.543 | Maximum Detect |
| 2,3,7,8-TCDF | ng/kg | 0-0.5 | 31 | / | 34 | 91 | 5.3 | 437 | 36.6 | 602 | 73.56 | 47.6 | 7608 | 87.22 | 95.74 | 95% GROS Adjusted Gamma UCL | 95.74 | UCL |
| octa CDD | ng/kg | 0-0.5 | 34 | / | 34 | 100 | 441 | 6520 | N/A | N/A | 2260 | 1980 | 1742230 | 1320 | 2709 | 95% Adjusted Gamma UCL | 2709 | UCL |
| octa CDF | ng/kg | 0-0.5 | 34 | / | 34 | 100 | 16.3 | 252 | N/A | N/A | 89.16 | 76.85 | 3012 | 54.88 | 105.1 | 95% Student's-t UCL | 105.1 | UCL |
| **Polychlorinated Biphenyl Congeners** | | | | | | | | | | | | | | | | | | |
| BZ#77 | mg/kg | 0-0.5 | 1 | / | 35 | 3 | 0.071 | 0.071 | 0.0016 | 0.018 | 0.071 | 0.071 | N/A | N/A | -- | -- | 0.071 | Maximum Detect |
| BZ#81 | mg/kg | 0-0.5 | 0 | / | 35 | 0 | N/A | N/A | 0.0031 | 0.037 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#105 | mg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.0047 | 0.13 | N/A | N/A | 0.0454 | 0.04 | 0.00087173 | 0.0295 | 0.0559 | 95% Adjusted Gamma UCL | 0.0559 | UCL |
| BZ#114 | mg/kg | 0-0.5 | 0 | / | 35 | 0 | N/A | N/A | 0.0016 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.0099 | 0.22 | N/A | N/A | 0.088 | 0.08 | 0.00284 | 0.0533 | 0.107 | 95% Adjusted Gamma UCL | 0.107 | UCL |
| BZ#123 | mg/kg | 0-0.5 | 0 | / | 35 | 0 | N/A | N/A | 0.0016 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#126 | mg/kg | 0-0.5 | 0 | / | 35 | 0 | N/A | N/A | 0.0016 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#153 | mg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.031 | 0.32 | N/A | N/A | 0.156 | 0.14 | 0.00624 | 0.079 | 0.178 | 95% Student's-t UCL | 0.178 | UCL |
| BZ#156 | mg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.0023 | 0.04 | N/A | N/A | 0.0167 | 0.015 | 0.00008546 | 0.00924 | 0.0193 | 95% Student's-t UCL | 0.0193 | UCL |
| BZ#157 | mg/kg | 0-0.5 | 12 | / | 35 | 34 | 0.0024 | 0.012 | 0.0016 | 0.018 | 0.00648 | 0.0056 | 9.8742E-06 | 0.00314 | 0.00511 | 95% KM (t) UCL | 0.00511 | UCL |
| BZ#167 | mg/kg | 0-0.5 | 0 | / | 35 | 0 | N/A | N/A | 0.0031 | 0.037 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#169 | mg/kg | 0-0.5 | 0 | / | 35 | 0 | N/A | N/A | 0.0016 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0-0.5 | 0 | / | 35 | 0 | N/A | N/A | 0.0016 | 0.018 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| **TEQ** | | | | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 34 | / | 34 | 100 | 0.00976 | 0.482 | -- | -- | 0.0971 | -- | -- | 0.0965 | 0.128 | 95% Adjusted Gamma UCL | 0.128 | UCL |
| Avian PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 34 | / | 34 | 100 | 0.00986 | 0.498 | -- | -- | 0.114 | -- | -- | 0.117 | 0.151 | 95% Adjusted Gamma UCL | 0.151 | UCL |
| Avian PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 34 | / | 34 | 100 | 0.00996 | 0.808 | -- | -- | 0.131 | -- | -- | 0.158 | 0.177 | 95% Adjusted Gamma UCL | 0.177 | UCL |
| Avian DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.000799 | 3.55 | -- | -- | 0.109 | -- | -- | 0.599 | 0.55 | 95% Chebyshev (Mean, Sd) UCL | 0.55 | UCL |
| Avian DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.277 | 4.05 | -- | -- | 1.279 | -- | -- | 0.844 | 1.539 | 95% Adjusted Gamma UCL | 1.539 | UCL |
| Avian DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.553 | 6.445 | -- | -- | 2.448 | -- | -- | 1.428 | 2.909 | 95% Adjusted Gamma UCL | 2.909 | UCL |
| Avian Total TEQ (ND=0) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.00505 | 3.644 | -- | -- | 0.203 | -- | -- | 0.607 | 0.254 | 95% H-UCL | 0.254 | UCL |
| Avian Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.287 | 4.144 | -- | -- | 1.389 | -- | -- | 0.902 | 1.671 | 95% Adjusted Gamma UCL | 1.671 | UCL |
| Avian Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.563 | 7.253 | -- | -- | 2.575 | -- | -- | 1.525 | 3.011 | 95% Student's-t UCL | 3.011 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 34 | / | 34 | 100 | 0.00309 | 0.097 | -- | -- | 0.0256 | -- | -- | 0.0208 | 0.0323 | 95% Adjusted Gamma UCL | 0.0323 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 34 | / | 34 | 100 | 0.0032 | 0.135 | -- | -- | 0.0288 | -- | -- | 0.0256 | 0.0367 | 95% Adjusted Gamma UCL | 0.0367 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 34 | / | 34 | 100 | 0.00331 | 0.173 | -- | -- | 0.032 | -- | -- | 0.0313 | 0.0442 | 95% H-UCL | 0.0442 | UCL |
| Mammalian DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.000507 | 0.0117 | -- | -- | 0.00477 | -- | -- | 0.00281 | 0.00579 | 95% Adjusted Gamma UCL | 0.00579 | UCL |
| Mammalian DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.105 | 1.19 | -- | -- | 0.441 | -- | -- | 0.262 | 0.524 | 95% Adjusted Gamma UCL | 0.524 | UCL |
| Mammalian DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.209 | 2.371 | -- | -- | 0.878 | -- | -- | 0.521 | 1.042 | 95% Adjusted Gamma UCL | 1.042 | UCL |
| Mammalian Total TEQ (ND=0) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.00308 | 0.106 | -- | -- | 0.0296 | -- | -- | 0.0226 | 0.0371 | 95% Adjusted Gamma UCL | 0.0371 | UCL |
| Mammalian Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.108 | 1.325 | -- | -- | 0.469 | -- | -- | 0.278 | 0.557 | 95% Adjusted Gamma UCL | 0.557 | UCL |
| Mammalian Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.213 | 2.544 | -- | -- | 0.909 | -- | -- | 0.541 | 1.079 | 95% Adjusted Gamma UCL | 1.079 | UCL |
| Fish PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 34 | / | 34 | 100 | 0.00313 | 0.12 | -- | -- | 0.0243 | -- | -- | 0.0224 | 0.0309 | 95% Adjusted Gamma UCL | 0.0309 | UCL |
| Fish PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 34 | / | 34 | 100 | 0.00324 | 0.143 | -- | -- | 0.0271 | -- | -- | 0.026 | 0.0365 | 95% H-UCL | 0.0365 | UCL |
| Fish PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 34 | / | 34 | 100 | 0.00335 | 0.166 | -- | -- | 0.03 | -- | -- | 0.0301 | 0.0406 | 95% H-UCL | 0.0406 | UCL |
| Fish DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.0000845 | 0.00732 | -- | -- | 0.00096484 | -- | -- | 0.0012 | 0.00124 | 95% Adjusted Gamma UCL | 0.00124 | UCL |
| Fish DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.005 | 0.0574 | -- | -- | 0.0216 | -- | -- | 0.0125 | 0.0255 | 95% Adjusted Gamma UCL | 0.0255 | UCL |
| Fish DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.00992 | 0.113 | -- | -- | 0.0422 | -- | -- | 0.0247 | 0.05 | 95% Adjusted Gamma UCL | 0.05 | UCL |
| Fish Total TEQ (ND=0) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.000514 | 0.122 | -- | -- | 0.0246 | -- | -- | 0.0227 | 0.0319 | 95% Adjusted Gamma UCL | 0.0319 | UCL |
| Fish Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.00824 | 0.2 | -- | -- | 0.0479 | -- | -- | 0.0352 | 0.0584 | 95% Adjusted Gamma UCL | 0.0584 | UCL |
| Fish Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 35 | / | 35 | 100 | 0.0133 | 0.279 | -- | -- | 0.0713 | -- | -- | 0.0493 | 0.086 | 95% Adjusted Gamma UCL | 0.086 | UCL |
| **Miscellaneous** | | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 0-0.5 | 34 | / | 34 | 100 | 11 | 37 | N/A | N/A | 21.68 | 20.5 | 37.01 | 6.084 | 23.44 | 95% Student's-t UCL | 23.44 | UCL |
| Solids, percent | % | 0-0.5 | 232 | / | 232 | 100 | 62.5 | 93 | N/A | N/A | 81.86 | 82.9 | 26.53 | 5.151 | 82.42 | 95% Student's-t UCL | 82.42 | UCL |
| TOC by lloyd kahn | mg/kg | 0-0.5 | 268 | / | 268 | 100 | 1340 | 93700 | N/A | N/A | 15769 | 14650 | 116600000 | 10796 | 16821 | 95% Approximate Gamma UCL | 16821 | UCL |

**Table F-2. Soil Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Depth (ft bgs) | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects / Total | FOD | Minimum Detect | Maximum Detect | Minimum Nondetect | Maximum Nondetect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Lower Assessment Area** | | | | | | | | | | | | | | | | |
| **Dioxin/Furan Congeners** | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-HpCDD | ng/kg | 0-0.5 | 28 / 28 | 100 | 11.8 | 250 | N/A | N/A | 69.87 | 57.2 | 2499 | 49.99 | 87.69 | 95% Adjusted Gamma UCL | 87.69 | UCL |
| 1,2,3,4,6,7,8-HpCDF | ng/kg | 0-0.5 | 20 / 28 | 71 | 2.7 | 109 | 0.34 | 34.6 | 22.99 | 13.45 | 753.5 | 27.45 | 30.03 | 95% KM Adjusted Gamma UCL | 30.03 | UCL |
| 1,2,3,4,7,8,9-HpCDF | ng/kg | 0-0.5 | 20 / 28 | 71 | 0.18 | 24.3 | 0.17 | 2.15 | 5.785 | 3.235 | 43.82 | 6.62 | 7.361 | 95% Gamma Adjusted KM-UCL | 7.361 | UCL |
| 1,2,3,4,7,8-HxCDD | ng/kg | 0-0.5 | 19 / 28 | 68 | 0.19 | 2.51 | 0.119 | 2.53 | 0.947 | 0.82 | 0.382 | 0.618 | 1.025 | 95% GROS Adjusted Gamma UCL | 1.025 | UCL |
| 1,2,3,4,7,8-HxCDF | ng/kg | 0-0.5 | 23 / 28 | 82 | 0.59 | 86.7 | 0.082 | 4.61 | 16.38 | 10.3 | 438.9 | 20.95 | 23.88 | 95% Gamma Adjusted KM-UCL | 23.88 | UCL |
| 1,2,3,6,7,8-HxCDD | ng/kg | 0-0.5 | 22 / 28 | 79 | 0.195 | 10 | 0.928 | 2.62 | 2.296 | 1.18 | 6.381 | 2.526 | 2.918 | 95% GROS Adjusted Gamma UCL | 2.918 | UCL |
| 1,2,3,6,7,8-HxCDF | ng/kg | 0-0.5 | 25 / 28 | 89 | 1.12 | 365 | 0.25 | 1.88 | 65.51 | 41.5 | 7859 | 88.65 | 103.2 | 95% Gamma Adjusted KM-UCL | 103.2 | UCL |
| 1,2,3,7,8,9-HxCDD | ng/kg | 0-0.5 | 25 / 28 | 89 | 0.316 | 5.42 | 1.45 | 2.77 | 2.017 | 1.83 | 1.394 | 1.181 | 2.309 | 95% KM (t) UCL | 2.309 | UCL |
| 1,2,3,7,8,9-HxCDF | ng/kg | 0-0.5 | 2 / 28 | 7 | 1.41 | 2.665 | 0.11 | 4.4 | 2.038 | 2.038 | 0.788 | 0.887 | -- | -- | 2.665 | Maximum Detect |
| 1,2,3,7,8-PeCDD | ng/kg | 0-0.5 | 1 / 28 | 4 | 0.969 | 0.969 | 0.093 | 1.62 | 0.969 | 0.969 | N/A | N/A | -- | -- | 0.969 | Maximum Detect |
| 1,2,3,7,8-PeCDF | ng/kg | 0-0.5 | 8 / 28 | 29 | 0.4 | 23.6 | 0.13 | 708 | 7.989 | 3.425 | 74.74 | 8.645 | 6.04 | 95% KM (t) UCL | 6.04 | UCL |
| 2,3,4,6,7,8-HxCDF | ng/kg | 0-0.5 | 18 / 28 | 64 | 0.3 | 13.7 | 0.097 | 5.78 | 3.498 | 2.05 | 14.38 | 3.792 | 4.113 | 95% KM Adjusted Gamma UCL | 4.113 | UCL |
| 2,3,4,7,8-PeCDF | ng/kg | 0-0.5 | 21 / 28 | 75 | 0.66 | 37.1 | 0.14 | 4.73 | 7.437 | 4 | 88.05 | 9.384 | 19.45 | 95% KM H-UCL | 19.45 | UCL |
| 2,3,7,8-TCDD | ng/kg | 0-0.5 | 2 / 28 | 7 | 0.441 | 0.75 | 0.092 | 0.752 | 0.596 | 0.596 | 0.0477 | 0.218 | -- | -- | 0.75 | Maximum Detect |
| 2,3,7,8-TCDF | ng/kg | 0-0.5 | 26 / 28 | 93 | 1.24 | 683 | 0.58 | 4.32 | 83.51 | 11.55 | 32648 | 180.7 | 222.2 | 95% KM (Chebyshev) UCL | 222.2 | UCL |
| octa CDD | ng/kg | 0-0.5 | 28 / 28 | 100 | 899 | 4200 | N/A | N/A | 2149 | 2130 | 684060 | 827.1 | 2415 | 95% Student's-t UCL | 2415 | UCL |
| octa CDF | ng/kg | 0-0.5 | 27 / 28 | 96 | 2.2 | 216 | 0.74 | 0.74 | 36.67 | 20 | 2306 | 48.02 | 59.2 | 95% Gamma Adjusted KM-UCL | 59.2 | UCL |
| **Polychlorinated Biphenyl Congeners** | | | | | | | | | | | | | | | | |
| BZ#77 | mg/kg | 0-0.5 | 5 / 28 | 18 | 0.0019 | 0.315 | 0.0014 | 0.017 | 0.0711 | 0.012 | 0.0186 | 0.136 | 0.0812 | 95% Gamma Adjusted KM-UCL | 0.0812 | UCL |
| BZ#81 | mg/kg | 0-0.5 | 0 / 28 | 0 | N/A | N/A | 0.0028 | 0.035 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#105 | mg/kg | 0-0.5 | 21 / 28 | 75 | 0.0023 | 0.12 | 0.0014 | 0.0017 | 0.0269 | 0.012 | 0.00124 | 0.0352 | 0.0378 | 95% Gamma Adjusted KM-UCL | 0.0378 | UCL |
| BZ#114 | mg/kg | 0-0.5 | 0 / 28 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#118 | mg/kg | 0-0.5 | 24 / 28 | 86 | 0.0019 | 0.23 | 0.0014 | 0.0015 | 0.0462 | 0.015 | 0.00436 | 0.0661 | 0.0736 | 95% Gamma Adjusted KM-UCL | 0.0736 | UCL |
| BZ#123 | mg/kg | 0-0.5 | 2 / 28 | 7 | 0.0041 | 0.023 | 0.0014 | 0.017 | 0.0136 | 0.0136 | 0.00017861 | 0.0134 | -- | -- | 0.023 | Maximum Detect |
| BZ#126 | mg/kg | 0-0.5 | 7 / 28 | 25 | 0.002 | 0.044 | 0.0014 | 0.017 | 0.0148 | 0.0031 | 0.00035273 | 0.0188 | 0.00506 | 95% KM H-UCL | 0.00506 | UCL |
| BZ#153 | mg/kg | 0-0.5 | 25 / 28 | 89 | 0.0032 | 0.37 | 0.0028 | 0.003 | 0.0853 | 0.042 | 0.0139 | 0.118 | 0.136 | 95% Gamma Adjusted KM-UCL | 0.136 | UCL |
| BZ#156 | mg/kg | 0-0.5 | 17 / 28 | 61 | 0.0019 | 0.042 | 0.0014 | 0.0017 | 0.0125 | 0.0069 | 0.0001806 | 0.0134 | 0.0129 | 95% KM H-UCL | 0.0129 | UCL |
| BZ#157 | mg/kg | 0-0.5 | 1 / 28 | 4 | 0.0031 | 0.0031 | 0.0014 | 0.017 | 0.0031 | 0.0031 | N/A | N/A | -- | -- | 0.0031 | Maximum Detect |
| BZ#167 | mg/kg | 0-0.5 | 2 / 28 | 7 | 0.0031 | 0.0041 | 0.0028 | 0.035 | 0.0036 | 0.0036 | 0.0000005 | 0.00070711 | -- | -- | 0.0041 | Maximum Detect |
| BZ#169 | mg/kg | 0-0.5 | 0 / 28 | 0 | N/A | N/A | 0.0014 | 0.017 | N/A | N/A | N/A | N/A | -- | -- | Not Detected | Not Detected |
| BZ#189 | mg/kg | 0-0.5 | 1 / 28 | 4 | 0.0015 | 0.0015 | 0.0014 | 0.017 | 0.0015 | 0.0015 | N/A | N/A | -- | -- | 0.0015 | Maximum Detect |
| **TEQ** | | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.000186 | 0.743 | -- | -- | 0.0914 | -- | -- | 0.189 | 0.247 | 95% Chebyshev (Mean, Sd) UCL | 0.247 | UCL |
| Avian PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.000674 | 0.744 | -- | -- | 0.0952 | -- | -- | 0.192 | 0.253 | 95% Chebyshev (Mean, Sd) UCL | 0.253 | UCL |
| Avian PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.00116 | 0.745 | -- | -- | 0.0989 | -- | -- | 0.195 | 0.26 | 95% Chebyshev (Mean, Sd) UCL | 0.26 | UCL |
| Avian DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0 | 19.75 | -- | -- | 0.984 | -- | -- | 3.773 | 4.093 | 95% Chebyshev (Mean, Sd) UCL | 4.093 | UCL |
| Avian DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.246 | 21.2 | -- | -- | 1.607 | -- | -- | 4.041 | 4.936 | 95% Chebyshev (Mean, Sd) UCL | 4.936 | UCL |
| Avian DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.492 | 22.65 | -- | -- | 2.23 | -- | -- | 4.425 | 5.875 | 95% Chebyshev (Mean, Sd) UCL | 5.875 | UCL |
| Avian Total TEQ (ND=0) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.000186 | 20.23 | -- | -- | 1.076 | -- | -- | 3.879 | 8.371 | 99% Chebyshev (Mean, Sd) UCL | 8.371 | UCL |
| Avian Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.249 | 21.68 | -- | -- | 1.702 | -- | -- | 4.165 | 5.134 | 95% Chebyshev (Mean, Sd) UCL | 5.134 | UCL |
| Avian Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.495 | 23.13 | -- | -- | 2.329 | -- | -- | 4.562 | 6.087 | 95% Chebyshev (Mean, Sd) UCL | 6.087 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.000578 | 0.121 | -- | -- | 0.0189 | -- | -- | 0.0293 | 0.0389 | 95% H-UCL | 0.0389 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.000751 | 0.122 | -- | -- | 0.0204 | -- | -- | 0.0305 | 0.0408 | 95% H-UCL | 0.0408 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.000924 | 0.123 | -- | -- | 0.0219 | -- | -- | 0.0317 | 0.0337 | 95% Adjusted Gamma UCL | 0.0337 | UCL |
| Mammalian DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0 | 4.41 | -- | -- | 0.368 | -- | -- | 1.106 | 1.279 | 95% Chebyshev (Mean, Sd) UCL | 1.279 | UCL |
| Mammalian DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.0917 | 4.64 | -- | -- | 0.564 | -- | -- | 1.137 | 1.5 | 95% Chebyshev (Mean, Sd) UCL | 1.5 | UCL |
| Mammalian DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.183 | 4.87 | -- | -- | 0.76 | -- | -- | 1.223 | 1.768 | 95% Chebyshev (Mean, Sd) UCL | 1.768 | UCL |
| Mammalian Total TEQ (ND=0) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.000578 | 4.531 | -- | -- | 0.387 | -- | -- | 1.13 | 1.721 | 97.5% Chebyshev (Mean, Sd) UCL | 1.721 | UCL |
| Mammalian Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.0936 | 4.762 | -- | -- | 0.584 | -- | -- | 1.163 | 1.543 | 95% Chebyshev (Mean, Sd) UCL | 1.543 | UCL |
| Mammalian Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.186 | 4.993 | -- | -- | 0.782 | -- | -- | 1.251 | 1.813 | 95% Chebyshev (Mean, Sd) UCL | 1.813 | UCL |
| Fish PCDD/PCDF TEQ (ND=0) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.000243 | 0.0876 | -- | -- | 0.0151 | -- | -- | 0.0214 | 0.0238 | 95% Adjusted Gamma UCL | 0.0238 | UCL |
| Fish PCDD/PCDF TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.000417 | 0.0886 | -- | -- | 0.0172 | -- | -- | 0.0231 | 0.0267 | 95% Adjusted Gamma UCL | 0.0267 | UCL |
| Fish PCDD/PCDF TEQ (ND=FullDL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.000591 | 0.098 | -- | -- | 0.0193 | -- | -- | 0.0253 | 0.0297 | 95% Adjusted Gamma UCL | 0.0297 | UCL |
| Fish DL-PCB TEQ (ND=0) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0 | 0.233 | -- | -- | 0.0198 | -- | -- | 0.0594 | 0.0687 | 95% Chebyshev (Mean, Sd) UCL | 0.0687 | UCL |
| Fish DL-PCB TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.00434 | 0.241 | -- | -- | 0.0289 | -- | -- | 0.0602 | 0.0784 | 95% Chebyshev (Mean, Sd) UCL | 0.0784 | UCL |
| Fish DL-PCB TEQ (ND=FullDL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.00868 | 0.249 | -- | -- | 0.038 | -- | -- | 0.0634 | 0.0902 | 95% Chebyshev (Mean, Sd) UCL | 0.0902 | UCL |
| Fish Total TEQ (ND=0) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.000243 | 0.31 | -- | -- | 0.0349 | -- | -- | 0.0777 | 0.0989 | 95% Chebyshev (Mean, Sd) UCL | 0.0989 | UCL |
| Fish Total TEQ (ND=1/2DL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.00507 | 0.32 | -- | -- | 0.0461 | -- | -- | 0.0804 | 0.112 | 95% Chebyshev (Mean, Sd) UCL | 0.112 | UCL |
| Fish Total TEQ (ND=FullDL) | µg/kg | 0-0.5 | 28 / 28 | 100 | 0.00989 | 0.33 | -- | -- | 0.0573 | -- | -- | 0.0857 | 0.0829 | 95% H-UCL | 0.0829 | UCL |

**Table F-2. Soil Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Depth (ft bgs) | Summary Statistics | | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Detects | / | Total | FOD | Minimum Detect | Maximum Detect | Minimum Nondetect | Maximum Nondetect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Miscellaneous** | | | | | | | | | | | | | | | | | | |
| Moisture, percent | % | 0-0.5 | 17 | / | 17 | 100 | 7.18 | 23 | N/A | N/A | 16.48 | 18 | 21.2 | 4.604 | 18.43 | 95% Student's-t UCL | 18.43 | UCL |
| Solids, percent | % | 0-0.5 | 252 | / | 252 | 100 | 42 | 97.45 | N/A | N/A | 87.78 | 88.1 | 40.33 | 6.351 | 88.43 | 95% Modified-t UCL | 88.43 | UCL |
| TOC by lloyd kahn | mg/kg | 0-0.5 | 288 | / | 288 | 100 | 1100 | 55300 | N/A | N/A | 14296 | 12550 | 67468462 | 8214 | 15080 | 95% Approximate Gamma UCL | 15080 | UCL |

**Notes:**
%: percent
CDD: chlorodibenzo-p-dioxin
CDF: chlorodibenzo-p-furan
DL: dioxin-like
DL-PCB: dioxin-like polychlorinated biphenyl
EPC: exposure point concentration
FOD: frequency of detection
ft bgs: feet below ground surface
HpCDD: heptachlorodibenzo-p-dioxin
HpCDF: heptachlorodibenzofuran
HxCDD: hexachlorodibenzo-p-dioxin
HxCDF: hexachlorodibenzofuran
KM: Kaplan-Meier
mg/kg: milligram per kilogram
N/A: not applicable
ND: nondetect
ng/kg: nanogram per kilogram
PCDD: polychlorinated dibenzodioxin
PCDF: polychlorinated dibenzofuran
PeCDD: pentachlorodibenzo-p-dioxin
PeCDF: pentachlorodibenzofuran
RPD: relative percent difference
Sd: standard deviation
TCDD: tetrachlorodibenzo-p-dioxin
TCDF: tetrachlorodibenzofuran
TEQ: toxic equivalent
TOC: total organic carbon
UCL: upper confidence limit
µg/kg: microgram per kilogram

**Table F-3. Toxic Equivalency Factors**
**Anniston PCB Site, Anniston, Alabama**

| | Constituent | Mammalian TEF (Van den Berg 2006) | Avian TEF (Van den Berg 1998) | Fish TEF (Van Den Berg 1998) |
|---|---|---|---|---|
| | **Dioxins** | | | |
| 2,3,7,8-TCDD | 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1 | 1 | 1 |
| 1,2,3,7,8-PeCDD | 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 1 | 1 | 1 |
| 1,2,3,4,7,8-HxCDD | 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 0.1 | 0.05 | 0.5 |
| 1,2,3,6,7,8-HxCDD | 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 0.1 | 0.01 | 0.01 |
| 1,2,3,7,8,9-HxCDD | 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 0.1 | 0.1 | 0.01 |
| 1,2,3,4,6,7,8-HpCDD | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 0.01 | 0.001 | 0.001 |
| Octa cdd | Octachlorodibenzo-p-dioxin | 0.0003 | 0.0001 | 0.0001 |
| | **Furans** | | | |
| 2,3,7,8-TCDD | 2,3,7,8-Tetrachlorodibenzofuran | 0.1 | 1 | 0.05 |
| 1,2,3,7,8-PeCDD | 1,2,3,7,8-Pentachlorodibenzofuran | 0.03 | 0.1 | 0.05 |
| 2,3,4,7,8-PeCDF | 2,3,4,7,8-Pentachlorodibenzofuran | 0.3 | 1 | 0.5 |
| 1,2,3,4,7,8-HxCDF | 1,2,3,4,7,8-Hexachlorodibenzofuran | 0.1 | 0.1 | 0.1 |
| 1,2,3,6,7,8-HxCDF | 1,2,3,6,7,8-Hexachlorodibenzofuran | 0.1 | 0.1 | 0.1 |
| 1,2,3,7,8,9-HxCDF | 1,2,3,7,8,9-Hexachlorodibenzofuran | 0.1 | 0.1 | 0.1 |
| 2,3,4,6,7,8-HxCDF | 2,3,4,6,7,8-Hexachlorodibenzofuran | 0.1 | 0.1 | 0.1 |
| 1,2,3,4,6,7,8-HpCDF | 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 0.01 | 0.01 | 0.01 |
| 1,2,3,4,7,8,9-HpCDF | 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 0.01 | 0.01 | 0.01 |
| Octa CDF | Octachlorodibenzofuran | 0.0003 | 0.0001 | 0.0001 |
| | **Non-ortho Polychlorinated Biphenyls** | | | |
| BZ#77 | 3,3',4,4'-TCB (77) | 0.0001 | 0.05 | 0.0001 |
| BZ#81 | 3,4,4',5-TCB (81) | 0.0003 | 0.1 | 0.0005 |
| BZ#126 | 3,3',4,4',5-PeCB (126) | 0.1 | 0.1 | 0.005 |
| BZ#169 | 3,3',4,4',5,5'-HxCB (169) | 0.03 | 0.001 | 0.00005 |
| | **Mono-ortho Polychlorinated Biphenyls** | | | |
| BZ#105 | 2,3,3',4,4'-PeCB (105) | 0.00003 | 0.0001 | 0.000005 |
| BZ#114 | 2,3,4,4',5-PeCB (114) | 0.00003 | 0.0001 | 0.000005 |
| BZ#118 | 2,3',4,4',5-PeCB (118) | 0.00003 | 0.00001 | 0.000005 |
| BZ#123 | 2',3,4,4',5-PeCB (123) | 0.00003 | 0.00001 | 0.000005 |
| BZ#156 | 2,3,3',4,4',5-HxCB (156) | 0.00003 | 0.0001 | 0.000005 |
| BZ#157 | 2,3,3',4,4',5'-HxCB (157) | 0.00003 | 0.0001 | 0.000005 |
| BZ#167 | 2,3',4,4',5,5'-HxCB (167) | 0.00003 | 0.00001 | 0.000005 |
| BZ#189 | 2,3,3',4,4',5,5'-HeCB (189) | 0.00003 | 0.00001 | 0.000005 |
| | | | | |
| BZ#153 | 2,2',4,4',5,5'-HxCB (153) | NA | NA | NA |

**Table F-3. Toxic Equivalency Factors**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**
CDD: chlorodibenzo-p-dioxin
CDF: chlorodibenzo-p-furan
HpCDD: heptachlorodibenzo-p-dioxin
HpCDF: heptachlorodibenzofuran
HxCB: hexachlorobiphenyl
HxCDF: hexachlorodibenzofuran
HxCDD: hexachlorodibenzo-p-dioxin
NA: not applicable
PeCB: pentachlorobiphenyl
PeCDD: pentachlorodibenzo-p-dioxin
PeCDF: pentachlorodibenzofuran
TCB: tetrachlorobiphenyl
TCDD: tetrachlorodibenzo-p-dioxin
TEF: toxic equivalency factor
**Sources:** Van den Berg et al. 1998 and 2006

**Table F-4a. Avian Exposure Parameters**
**Anniston PCB Site, Anniston, Alabama**

| Parameter | Aerial-feeding Insectivore | | Ground-feeding Invertivore | | Aquatic Ground-feeding Invertivore | | Omnivore | | Herbivore | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tree Swallow | | Carolina Wren | | Spotted Sandpiper | | Blue Jay | | Mourning Dove | |
| | Data | Source | Data | Source | Data | Source | Data | Source | Data | Source |
| **Composition of Diet (%)** | | | | | | | | | | |
| Riparian Soil | 0% | -- | 0% | -- | 9% | Half of assumed incidental ingested percent of soil/sediment | 0% | -- | 0% | -- |
| Soil/Sediment | 0% | Assumed to be negligible based on feeding strategy | 14% | Beyer et al. (1994), as cited in USEPA (2007), based on mourning dove | 18% | Beyer et al. (1994) (average of four sandpiper values) | 14% | Beyer et al. (1994), as cited in USEPA (2007), based on mourning dove | 14% | Beyer et al. (1994), as cited in USEPA (2007) |
| Terrestrial Invertebrates (Worms) | 0% | -- | See Table 5a for values for each scenario | -- | See Table 5a for values for each scenario | -- | 0% | -- | 0% | -- |
| Terrestrial Invertebrates (Grasshoppers) | 0% | -- | | -- | | -- | 11% | Smith et al. (2013) | 0% | -- |
| Terrestrial Invertebrates, Spiders, Detritivores | 0% | -- | | -- | | -- | 11% | Smith et al. (2013) | 0% | -- |
| Aquatic Emergent and Flying Insects | 100% | Robertson et al. (1992) | | -- | | -- | 0% | -- | 0% | -- |
| Aquatic Invertebrates, Spiders, Detritivores | 0% | -- | | -- | | -- | 0% | -- | | |
| Terrestrial Plants | 0% | -- | | -- | | -- | 78% | Beal (1922), as cited in Tarvin and Woolfenden (1999) | 100% | Mirarchi (1993) |
| Aquatic Plants | 0% | -- | | -- | | -- | 0% | -- | 0% | -- |
| Mammals | 0% | -- | | -- | | -- | 0% | -- | 0% | -- |
| Reptiles/Amphibians | 0% | -- | | -- | | -- | 0% | -- | 0% | -- |
| Reptiles | 0% | -- | | -- | | -- | 0% | -- | 0% | -- |
| Amphibians | 0% | -- | | -- | | -- | 0% | -- | 0% | -- |
| All Fish | 0% | -- | | -- | | -- | 0% | -- | 0% | -- |
| Predator Fish Only | 0% | -- | | -- | | -- | 0% | -- | 0% | -- |
| Forage Fish (4-15 centimeters) | 0% | | | -- | | -- | 0% | -- | 0% | -- |
| Aquatic Invertebrates | 0% | -- | | -- | | -- | 0% | -- | 0% | -- |
| Aquatic Oligochaetes (Lumbriculus) | 0% | -- | | -- | | -- | 0% | -- | 0% | -- |
| Crayfish | 0% | -- | | -- | | -- | 0% | -- | 0% | -- |
| Mollusc | 0% | -- | | -- | | -- | 0% | -- | 0% | -- |
| | | | | | | | | | | |
| **Body Weight (kg)** | 0.021 | Robertson et al. (1992) | 0.020 | Haggerty and Morton (1995) | 0.043 | USEPA (1993) (average of reported values) | 0.087 | Frysinger (2001) | 0.12 | USEPA (2007) |
| **Food Ingestion Rate (kg/kg BW-d)** | | | | | | | | | | |
| **Food Ingestion Rate (kg/kg BW-d [dw])** | 0.24 | Nagy (2001), allometric equation for passerines | 0.24 | Nagy (2001), allometric equation for passerines | 0.18 | Nagy (2001), allometric equation for insectivores | 0.15 | Nagy (2001), allometric equation for passerines | 0.14 | Nagy (2001), allometric equation for all birds |
| | | | | | | | | | | |
| **Drinking Water Ingestion (kg/kg BW-d)** | 0.21 | Calder and Braun (1983), as cited in USEPA (1993) | 0.27 | Calder and Braun (1983), as cited in USEPA (1993) | 0.17 | Calder and Braun (1983), as cited in USEPA (1993) | 0.13 | Calder and Braun (1983), as cited in USEPA (1993) | 0.12 | Calder and Braun (1983), as cited in USEPA (1993) |
| **Home Range (acres)** | | | | | | | | | | |
| Lower Bound | 0.1 km | McCarty and Winkler (1999); Hudson River BERA | 0.42 | Verner (1965), as cited in USEPA (1993), based on the marsh wren | 2.5 | Hays (1972) | -- | -- | 247 | Basket et al. (1993) |
| Central Tendency | 225 m | Stapleton and Robertson (2006) | 1.7 | Haggerty and Morton (1975) | 8.00 | Hays (1972) | 1746 | Darley-Hill and Johnson (1981), as cited in Tarvin and Woolfenden (1999) | 1800 | Basket et al. (1993) |
| Upper Bound | 0.3 ha | Poole and Gill 1992 | 5.40 | DeGraff et al. (1975) | 12 | Zeiner et al. (1986-1990) | -- | -- | 10,600 | Poole and Gill (1992) |

**Table F-4a. Avian Exposure Parameters**
**Anniston PCB Site, Anniston, Alabama**

| Parameter | Piscivore<br>Belted Kingfisher | | Piscivore<br>American Osprey | | Raptor (Carnivore)<br>Red-tailed Hawk | | Wading Carnivore<br>Great Blue Heron | |
|---|---|---|---|---|---|---|---|---|
| | Data | Source | Data | Source | Data | Source | Data | Source |
| **Composition of Diet (%)** | | | | | | | | |
| Riparian Soil | 0% | -- | 0% | -- | 6% | Riparian soil assumed when sediment exposure point concentration also used | 0% | -- |
| Soil/Sediment | 2% | Assumed to be low but possible for wading carnivores as stir sediment to flush prey | 0% | Assumed to be negligible for piscivores | 6% | Beyer et al. (1994), as cited in USEPA (2007) | 2% | Assumed to be low but possible for wading carnivores as stir sediment to flush prey |
| Terrestrial Invertebrates (Worms) | See Table 5a for values for each scenario | -- | 0% | -- | 0% | -- | 0% | -- |
| Terrestrial Invertebrates (Grasshoppers) | | -- | 0% | -- | 0% | -- | 0% | -- |
| Terrestrial Invertebrates, Spiders, Detritivores | | -- | 0% | -- | | | | |
| Aquatic Emergent and Flying Insects | | -- | 0% | -- | 0% | -- | 0% | -- |
| Aquatic Invertebrates, Spiders, Detritivores | | | 0% | -- | | | | |
| Terrestrial Plants | | -- | 0% | -- | 0% | -- | 0% | -- |
| Aquatic Plants | | -- | 0% | -- | 0% | -- | 0% | -- |
| Mammals | | -- | 0% | -- | 87% | Janes (1984), as cited in USEPA (1993) | 1% | Alexander (1977), as cited in USEPA (1993) |
| Reptiles/Amphibians | | -- | 0% | -- | 0% | -- | 0% | -- |
| Reptiles | | -- | 0% | -- | 13% | Janes (1984), as cited in USEPA (1993) | 0% | -- |
| Amphibians | | -- | 0% | -- | 0% | -- | 4% | Alexander (1977), as cited in USEPA (1993) - frogs |
| All Fish | | -- | 100% | USEPA (1993); McLean and Byrd (1991) for fish size - all size classes | 0% | -- | 94% | Alexander (1977), as cited in USEPA (1993); Butler 1992 and DeGraaf and Yamasaki (2001) for fish size |
| Predator Fish Only | | -- | 0% | -- | 0% | -- | 0% | -- |
| Forage Fish (4-15 centimeters) | | -- | 0% | -- | 0% | -- | 0% | -- |
| Aquatic Invertebrates | | -- | 0% | -- | 0% | -- | 0% | -- |
| Aquatic Oligochaetes (Lumbriculus) | | -- | 0% | -- | 0% | -- | 0% | -- |
| Crayfish | | -- | 0% | -- | 0% | -- | 1% | Alexander (1977), as cited in USEPA (1993) - crayfish |
| Mollusc | | -- | 0% | -- | 0% | -- | 0% | |
| | | | | | | | | |
| **Body Weight (kg)** | 0.15 | Dunning (1984), as cited in Sample and Suter (1994) | 1.6 | USEPA (1993) (based on average of adult values) | 1.1 | USEPA (1993) (based on average of all adult values) | 2.3 | USEPA (1993) [based on average of all adult values) |
| **Food Ingestion Rate (kg/kg BW-d)** | | | | | | | | |
| **Food Ingestion Rate (kg/kg BW-d [dw])** | 0.16 | Nagy (2001), allometric equation for carnivorous birds | 0.07 | Nagy (2001), allometric equation for carnivorous birds | 0.08 | Nagy (2001), allometric equation for carnivorous birds | 0.18 | Kushlan (1978), as cited in USEPA (1993) |
| | | | | | | | | |
| **Drinking Water Ingestion (kg/kg BW-d)** | 0.11 | Calder and Braun (1983), as cited in USEPA (1993) | 0.051 | Calder and Braun (1983), as cited in USEPA (1993) | 0.057 | Calder and Braun (1983), as cited in USEPA (1993) | 0.045 | Calder and Braun (1983), as cited in USEPA (1993) |
| **Home Range (acres)** | | | | | | | | |
| Lower Bound | 0.7 km | Davis (1982) | 1.7 km | Dunstan (1973), as cited in USEPA (1993) | 148 | Fitch et al. (1946), as cited in USEPA (1993) | 1.8 km | Mathisen and Richards (1978), as cited in USEPA (1993) |
| Central Tendency | 1.61 km | Brooks and Davis (1987) | 3-8 km | Koplin (1981), as cited in USEPA (1993) | 1659 | USEPA (1993) | 3.1 km | Dowd and Flake (1985), as cited in USEPA (1993) |
| Upper Bound | 4.8 km | Salyer and Lagler (1946) | 10 km | Greene et al. (1983) and Van Daele and Van Daele (1982), as cited in USEPA (1993) | 6089 | Andersen and Rongstad (1989), as cited in USEPA (1993) | 7-8 km | Parnell and Soots (1978), as cited in USEPA (1993) |

**Notes:**
--: not applicable
%: percent
BERA: Baseline Ecological Risk Assessment
dw: dry weight
kg: kilogram
kg/kg BW-d: kilogram per kilogram body weight per day
km: kilometer
USEPA: United States Environmental Protection Agency
References presented in Table F-5c

**Table F-4b. Mammalian Exposure Parameters**
**Anniston PCB Site, Anniston, Alabama**

| Parameter | Mammalian Aerial-feeding Insectivore | | Mammalian Ground-feeding Invertivore | | Mammalian Omnivore | | Herbivore | |
|---|---|---|---|---|---|---|---|---|
| | Little Brown Bat | | Short-tailed Shrew | | Raccoon | | White-tailed Deer | |
| | Data | Source | Data | Source | Data | Source | Data | Source |
| **Composition of Diet (%)** | | | | | | | | |
| Riparian Soil | 0% | -- | 3% | Riparian soil assumed when exposure point concentration also used | 0% | -- | 0% | -- |
| Soil/Sediment | 0% | Assumed to be negligible for aerial-feeding insectivores | 3% | Beyer et al. (1994), as cited in USEPA (2007) | 9.4% | Beyer et al. (1994) | 2% | Sample and Suter (1994) |
| Soil Invertebrates (Worms) | 0% | -- | See Table 5b for values for each scenario | -- | See Table 5b for values for each scenario | -- | 0% | -- |
| Terrestrial Insects (Grasshoppers) | 0% | -- | | -- | | -- | 0% | -- |
| Terrestrial Invertebrates, Spiders, Detritivores | 0% | -- | | -- | | -- | 0% | -- |
| Aquatic Emergent and Flying Insects | 100% | Belwood and Fenton (1976), as cited in Sample and Suter (1994) | | -- | | -- | 0% | -- |
| Aquatic Invertebrates, Spiders, Detritivores | 0% | -- | | -- | | -- | 0% | -- |
| Terrestrial Plants | 0% | -- | | -- | | -- | 100% | Smith 1991, as cited in Sample and Suter (1994) |
| Aquatic Plants | 0% | -- | | -- | | -- | 0% | -- |
| Mammals | 0% | -- | | -- | | -- | 0% | -- |
| Reptiles/Amphibians | 0% | -- | | -- | | -- | 0% | -- |
| Reptiles | 0% | -- | | -- | | -- | 0% | -- |
| Amphibians | 0% | -- | | -- | | -- | 0% | -- |
| All Fish | 0% | -- | | -- | | -- | 0% | -- |
| Predator Fish Only | 0% | -- | | -- | | -- | 0% | -- |
| Forage Fish Only (4-15 centimeters) | 0% | -- | | -- | | -- | 0% | -- |
| Aquatic Invertebrates | 0% | -- | | -- | | -- | 0% | -- |
| Aquatic Oligochaetes (Lumbriculus) | 0% | -- | | -- | | -- | 0% | -- |
| Crayfish | 0% | -- | | -- | | -- | 0% | -- |
| Mollusc | 0% | -- | | -- | | -- | 0% | -- |
| | | | | | | | | |
| **Body Weight (kg)** | 0.009 | Nagy (2001), allometric equation for little brown bat | 0.017 | USEPA (1993) (average of all mean values) | 5.6 | USEPA (1993) (average of adult and juvenile means values) | 57 | Smith (1991), as cited in Sample and Suter (1994) (average of male and female values) |
| **Food Ingestion Rate (kg/kg BW-d)** | | | | | | | | |
| Food Ingestion Rate (kg/kg BW-d [dw]) | 0.18 | Nagy (2001), allometric equation for little brown bat | 0.1278 | Nagy (2001), allometric equation for insectivores | 0.0268 | Nagy (2001), allometric equation for omnivores | 0.0147 | Nagy (2001), allometric equation for herbivores |
| | | | | | | | | |
| **Drinking Water Ingestion (kg/kg BW-d)** | 0.16 | Calder and Braun (1983), as cited in USEPA (1993) | 0.15 | Calder and Braun (1983), as cited in USEPA (1993) | 0.083 | Calder and Braun (1983), as cited in USEPA (1993) | 0.066 | Calder and Braun (1983), as cited in USEPA (1993) |
| **Home Range (acres)** | | | | | | | | |
| Lower Bound | 0.1 km | Bulcher (1976); Hudson River BERA | 0.25 | Blair (1940), as cited in USEPA (1993) | 48 | Urban (1970); Hudson River BERA | 146 | Marchinton and Hirth (1984), as cited in Sample and Suter (1994) |
| Central Tendency | 42 | Henry et al. (2002) | 0.96 | Buckner (1966) as cited in USEPA (1993) | 270 | Prange et al. (2004) | 715 | Marchinton and Hirth (1984), as cited in Sample and Suter (1994) |
| Upper Bound | 74 | Henry et al. (2002) | 4.4 | Blair (1940), as cited in USEPA (1993) | 12217 | Fritzell (1978), as cited in USEPA (1993) | 1284 | Marchinton and Hirth (1984), as cited in Sample and Suter (1994) |

**Table F-4b. Mammalian Exposure Parameters**
**Anniston PCB Site, Anniston, Alabama**

| Parameter | Piscivore Mink | | Piscivore River Otter | | Aquatic-dependent Carnivore Long-tailed Weasel | | Mammalian Terrestrial-dependent Carnivore Red Fox | |
|---|---|---|---|---|---|---|---|---|
| | Data | Source | Data | Source | Data | Source | Data | Source |
| **Composition of Diet (%)** | | | | | | | | |
| Riparian Soil | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Soil/Sediment | 0% | Hamilton (1940), as cited in Sample and Suter (1994) | 0% | Assumed to be negligible for piscivores | 4.3% | Beyer et al. (1994), as cited in USEPA (2007) | 2.8% | Beyer et al. (1994) |
| Soil Invertebrates (Worms) | See Table 5b for values for each scenario | -- | 0% | -- | 0% | -- | See Table 2b for values for each scenario | -- |
| Terrestrial Insects (Grasshoppers) | | -- | 0% | -- | 0% | -- | | -- |
| Terrestrial Invertebrates, Spiders, Detritivores | | -- | 0% | -- | 0% | -- | | -- |
| Aquatic Emergent and Flying Insects | | -- | 0% | -- | 0% | -- | | -- |
| Aquatic Invertebrates, Spiders, Detritivores | | -- | 0% | -- | 0% | -- | | -- |
| Terrestrial Plants | | -- | 0% | -- | 0% | -- | | -- |
| Aquatic Plants | | -- | 0% | -- | 0% | -- | | -- |
| Mammals | | -- | 0% | -- | 100% | Sheffield and Thomas (1997) | | -- |
| Reptiles/Amphibians | | -- | 0% | -- | 0% | -- | | -- |
| Reptiles | | -- | 0% | -- | 0% | -- | | -- |
| Amphibians | | -- | 0% | -- | 0% | -- | | -- |
| All Fish | | -- | 48% | 1-(%forage fish+%predator fish) | 0% | -- | | -- |
| Predator Fish Only | | -- | 22% | Stearns and Serfassi (2011) | 0% | -- | | -- |
| Forage Fish Only (4-15 centimeters) | | -- | 30% | Stearns and Serfassi (2011) | 0% | -- | | -- |
| Aquatic Invertebrates | | -- | 0% | -- | 0% | -- | | -- |
| Aquatic Oligochaetes (Lumbriculus) | | -- | 0% | -- | 0% | -- | | -- |
| Crayfish | | -- | 0% | -- | 0% | -- | | -- |
| Mollusc | | -- | 0% | -- | 0% | -- | | -- |
| | | | | | | | | |
| **Body Weight (kg)** | 0.90 | USEPA (1993) (average of all adult and juvenile values) | 7.4 | USEPA (1993) (average of all adult and yearling values) | 0.30 | USEPA (2007) | 4.5 | USEPA (1993) (mean of all adult values) |
| **Food Ingestion Rate (kg/kg BW-d)** | | | | | | | | |
| Food Ingestion Rate (kg/kg BW-d [dw]) | 0.05 | Nagy (2001), allometric equation for carnivores | 0.03 | Nagy (2001), allometric equation for carnivores | 0.06 | Nagy (2001), allometric equation for carnivores | 0.04 | Nagy (2001), allometric equation for carnivores |
| | | | | | | | | |
| **Drinking Water Ingestion (kg/kg BW-d)** | 0.10 | Calder and Braun (1983), as cited in USEPA (1993) | 0.081 | Calder and Braun (1983), as cited in USEPA (1993) | 0.11 | Calder and Braun (1983), as cited in USEPA (1993) | 0.085 | Calder and Braun (1983), as cited in USEPA (1993) |
| **Home Range (acres)** | | | | | | | | |
| Lower Bound | 1.9 km | Gerell (1970) and Mitchell (1961) as cited in USEPA (1993) | 10 km | Spinola et al (1999); Hudson River BERA | 30-40 | Svendsen (1982) | 141 | Ables (1969), as cited in USEPA (1993) |
| Central Tendency | 2.15 km | in USEPA (1993) | 31 km | Melquist and Hornocker (1983), as cited in USEPA (1993) | 96-338 | Gehring and Swihart (2004) | 2563 | USEPA (1993) (mean of all reported values) |
| Upper Bound | 3.4 | Gerell (1970) and Mitchell (1961), as cited in USEPA (1993) | | | 79-395 | Quick (1944-1951) | 8447 | Jones and Theberge (1982), as cited in USEPA (1993) |

**Notes:**
--: not applicable
%: percent
BERA: Baseline Ecological Risk Assessment
dw: dry weight
FIR: food ingestion rate
kg: kilogram
km: kilometer
kg/kg bw-d: kilogram per kilogram body weight per day
USEPA: United States Environmental Protection Agency
References presented in Table F-5c

**Table F-5a. Avian Exposure Parameter Scenarios**
**Anniston PCB Site, Anniston, Alabama**

| Parameter | Aquatic Ground-feeding Invertivore | | | | Piscivore | | | | Ground-feeding Invertivore | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Spotted Sandpiper | | | | Belted Kingfisher | | | | Carolina Wren | | | |
| | Data | Source | Data | Source | Data | Source | Data | Source | Data | Source | Data | Source |
| | Scenario 1 | | Scenario 2 | | Scenario 1 | | Scenario 2 | | Scenario 1 | | Scenario 2 | |
| **Composition of Diet (%)** | | | | | | | | | | | | |
| Soil Invertebrates (Worms) | 50% | Assumed, based on Oring et al. (1997) | 0% | -- | 0% | -- | 0% | -- | 15% | Cristol et al. (2008); Walters et al. (2010) | 15% | Cristol et al. (2008); Walters et al. (2010) |
| Terrestrial Invertebrates (Grasshoppers) | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 45% | Cristol et al. (2008); Walters et al. (2010) | 45% | Cristol et al. (2008); Walters et al. (2010) |
| Terrestrial Invertebrates, Spiders, Detritivores | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 31% | Cristol et al. (2008); Walters et al. (2010) | 0% | -- |
| Aquatic Emergent and Flying Insects | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Aquatic Invertebrates, Spiders, Detritivores | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 31% | Cristol et al. (2008); Walters et al. (2010) |
| Terrestrial Plants | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 9% | Cristol et al. (2008); Walters et al. (2010) | 0% | -- |
| Aquatic Plants | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 9% | Cristol et al. 2008; Walters et al. 2010 |
| Mammals | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Reptiles/Amphibians | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Reptiles | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Amphibians | 0% | -- | 0% | -- | 0% | -- | 5% | Alexander (1977), Salyer and Lagler (1946) and Davis (1982) as cited in USEPA (1993) | 0% | -- | 0% | -- |
| All Fish | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Predator Fish Only | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Forage Fish (4-15 centimeters) | 0% | -- | 0% | -- | 100% | Consume primarily fish (Hamas 2009); Prose (1985) fish size | 76% | Alexander (1977), Salyer and Lagler (1946), and Davis (1982) as cited in USEPA (1993); Prose (1985) fish size | 0% | -- | 0% | -- |
| Aquatic Invertebrates (Odonata Larvae) | 50% | Rubbelke (1976) | 50% | Rubbelke (1976) | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Aquatic Oligochaetes (Lumbriculus) | 0% | -- | 50% | Assumed | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Crayfish | 0% | -- | 0% | -- | 0% | -- | 19% | Alexander (1977), Salyer and Lagler (1946), and Davis (1982) as cited in USEPA (1993) - crayfish | 0% | -- | 0% | -- |
| Mollusc | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |

**Notes:**
--: not applicable
%: percent
USEPA: United States Environmental Protection Agency
References presented in Table F-5c

**Table F-5b. Mammalian Exposure Parameter Scenarios**
**Anniston PCB Site, Anniston, Alabama**

| Parameter | Mammalian Ground-feeding Invertivore | | | | Mammalian Omnivore | | | | Piscivore | | | | Mammalian Terrestrial-dependent Carnivore | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Short-tailed Shrew | | | | Raccoon | | | | Mink | | | | Red Fox | | | |
| | Data | Source | Data | Source | Data | Source | Data | Source | Data | Source | Data | Source | Data | Source | Data | Source |
| | Scenario 1 | | Scenario 2 | | Scenario 1 | | Scenario 2 | | Scenario 1 | | Scenario 2 | | Scenario 1 | | Scenario 2 | |
| **Composition of Diet (%)** | | | | | | | | | | | | | | | | |
| Terrestrial Invertebrates (Worms) | 37% | Average diet composition of two studies (Whitaker and Ferraro [1963]; Hamilton [1941], as cited in USEPA [1993]) | 41% | Hamilton (1941) as cited in USEPA (1993) | 10% | Value of 30% from Llewellyn and Uhler (1952), as cited in USEPA (1993) *33% | 0% | Alexander (1977), riverine as cited in USEPA 1993 | 0% | -- | 0% | -- | 4% | Knable (1974), as cited in USEPA (1993) - insects | 0% | -- |
| Terrestrial Insects (Grasshoppers) | 26% | Non-worm and non-plant average diet composition of two studies (Whitaker and Ferraro [1963]; Hamilton [1941], as cited in USEPA [1993])*50% | 17.5% | Non-worm, non-plant, non-vertebrate diet composition from Hamilton (1941), as cited in USEPA (1993)*50% | 10% | Value of 30% from Llewellyn and Uhler (1952), as cited in USEPA (1993) *33% | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Terrestrial Invertebrates, Spiders, Detritivores | 26% | Non-worm and non-plant average diet composition of two studies (Whitaker and Ferraro [1963]; Hamilton [1941], as cited in USEPA [1993])*50% | 17.5% | Non-worm, non-plant, non-vertebrate diet composition from Hamilton (1941), as cited in USEPA (1993)*50% | 10% | Value of 30% from Llewellyn and Uhler (1952), as cited in USEPA (1993) *33% | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Aquatic Emergent and Flying Insects | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Aquatic Invertebrates, Spiders, Detritivores | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Terrestrial Plants | 12% | Average diet composition of two studies (Whitaker and Ferraro [1963]; Hamilton [1941], as cited in USEPA [1993]) | 17% | Hamilton (1941) as cited in USEPA (1993) | 44% | Llewellyn and Uhler (1952), as cited in USEPA (1993) | 0% | -- | 0% | -- | 0% | -- | 17% | Knable (1974), as cited in USEPA (1993) | 5% | Korschgen (1959) as cited in USEPA (1993) |
| Aquatic Plants | 0% | -- | 0% | -- | 0% | -- | 17% | Alexander (1977), riverine as cited in USEPA 1993 | 0% | -- | 1% | Alexander (1977), riverine as cited in USEPA 1993 | 0% | -- | 0% | -- |
| Mammals/Birds | 0% | -- | 5% | Hamilton (1941) as cited in USEPA (1993) | 5% | Llewellyn and Uhler (1952), as cited in USEPA (1993) | 19% | Alexander (1977), riverine as cited in USEPA 1993 | 44% | Korschgen (1958), as cited in USEPA (1993) | 6% | Alexander (1977), riverine as cited in USEPA 1993 | 79% | Knable (1974), as cited in USEPA (1993) | 95% | Korschgen (1959) as cited in USEPA (1993) |
| Reptiles/Amphibians | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Reptiles | 0% | -- | 1% | Hamilton (1940) | 2% | Assumed, from average for reptiles/amphibians in Llewellyn and Uhler (1952), as cited in USEPA (1993) | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Amphibians | 0% | -- | 1% | Hamilton (1940) | 3% | Assumed, from average for reptiles/amphibians in Llewellyn and Uhler (1952), as cited in USEPA (1993) | 12% | Alexander (1977), riverine as cited in USEPA 1993 | 26% | Korschgen (1958), as cited in USEPA (1993) | 3% | Alexander (1977), riverine as cited in USEPA 1993 | 0% | -- | 0% | -- |
| All Fish | 0% | -- | 0% | -- | 2% | Llewellyn and Uhler (1952), as cited in USEPA (1993) - all size classes | 23% | Alexander (1977), riverine as cited in USEPA 1993 - all size classes | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Predator Fish Only | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Forage Fish Only (4-15 centimeters) | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 21% | Korschgen (1958), as cited in USEPA (1993) - forage fish | 86% | Alexander (1977), riverine as cited in USEPA 1993 - forage fish | 0% | -- | 0% | -- |
| Crayfish | 0% | -- | 0% | -- | 13% | Llewellyn and Uhler (1952), as cited in USEPA (1993) - crayfish | 13% | Alexander (1977), riverine as cited in USEPA 1993 - crayfish | 9% | Korschgen (1958), as cited in USEPA (1993) - crayfish | 4% | Alexander (1977), riverine as cited in USEPA 1993 - crayfish | 0% | -- | 0% | -- |
| Aquatic Invertebrates (Odonata larvae) | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Aquatic Oligochaetes (Lumbriculus) | 0% | -- | 0% | -- | 0% | -- | 3% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |
| Molluscs | 0% | -- | 0% | -- | 0% | -- | 13% | -- | 0% | -- | 0% | -- | 0% | -- | 0% | -- |

**Notes:**
--: not applicable
%: percent
USEPA: United States Environmental Protection Agency
References presented in Table F-5c

**Tables F-5c. Literature Cited in Tables F-4a,b and F-5a,b - Avian and Mammalian Exposure Parameters**
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**Table F-6. Summary of Site-Specific BAFs for Dioxin/Furan and Dioxin-like PCB Congeners**
**Anniston PCB Site, Anniston, Alabama**

| | Sitewide Median Soil BAFs [1] (dw/dw) | | | | | Sitewide Median Sediment BAFs [1] (dw/dw) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Congeners** | **Mammals** | **BAF Type[2]** | **Invertebrates** | **Terrestrial Plants** | **BAF Type** | **Aquatic Plants** | **BAF Type** | **Benthic Invertebrates** | **BAF Type** | **Crayfish** | **BAF Type** |
| Soil/sediment BSA KM Means (N) | 5 | | 5 | 5 | | 4 | | 4 | | 4 | |
| Individual Tissue (N) | 6 | | 0 | 2 | | 2 | | 2 | | 2 | |
| **PCDD/PCDF Congeners** | | | | | | | | | | | |
| 1,2,3,4,6,7,8-HpCDD | 0.042 | median | No Data | 0.136 | median | 0.395 | median | 0.701 | median | 0.110 | median |
| 1,2,3,4,6,7,8-HpCDF | 0.087 | median | No Data | NA | | NA | | 0.521 | median | NA | |
| 1,2,3,4,7,8,9-HpCDF | 0.026 | ave ratio | No Data | NA | | NA | | NA | | NA | |
| 1,2,3,4,7,8-HxCDD | NA | | No Data | NA | | NA | | NA | | NA | |
| 1,2,3,4,7,8-HxCDF | 0.181 | median | No Data | 0.164 | median | 0.285 | median | 0.955 | median | NA | |
| 1,2,3,6,7,8-HxCDD | 0.116 | ave ratio | No Data | NA | | NA | | NA | | NA | |
| 1,2,3,6,7,8-HxCDF | 0.167 | median | No Data | 0.086 | median | NA | | NA | | NA | |
| 1,2,3,7,8,9-HxCDD | NA | | No Data | NA | | NA | | NA | | NA | |
| 1,2,3,7,8,9-HxCDF | NA | | No Data | NA | | NA | | NA | | NA | |
| 1,2,3,7,8-PeCDD | NA | | No Data | NA | | NA | | NA | | NA | |
| 1,2,3,7,8-PeCDF | NA | | No Data | NA | | 0.557 | median | 2.85 | median | 0.815 | median |
| 2,3,4,6,7,8-HxCDF | 2.26 | median | No Data | NA | | NA | | NA | | NA | |
| 2,3,4,7,8-PeCDF | 1.76 | median | No Data | NA | | NA | | 2.29 | median | 0.725 | median |
| 2,3,7,8-TCDD | NA | | No Data | NA | | NA | | NA | | NA | |
| 2,3,7,8-TCDF | 0.040 | median | No Data | 0.081 | median | 1.56 | median | 6.50 | median | 1.06 | median |
| Octa CDD | 0.026 | median | No Data | 0.087 | median | 0.243 | median | 0.365 | median | 0.062 | median |
| Octa CDF | 0.016 | ave ratio | No Data | NA | | NA | | NA | | NA | |
| **Dioxin-Like PCB Congeners** | | | | | | | | | | | |
| BZ#105 | 0.542 | median | No Data | 0.148 | median | 0.625 | median | 1.05 | median | 0.822 | median |
| BZ#114 | NA | | No Data | NA | | NA | | NA | | NA | |
| BZ#118 | 0.652 | median | No Data | 0.134 | median | 0.528 | median | 0.952 | median | 0.882 | median |
| BZ#123 | NA | | No Data | NA | | NA | | NA | | NA | |
| BZ#126 | NA | | No Data | NA | | NA | | NA | | NA | |
| BZ#153 | NA | | No Data | NA | | NA | | NA | | NA | |
| BZ#156 | 2.49 | median | No Data | NA | | NA | | 2.83 | median | 0.648 | median |
| BZ#157 | NA | | No Data | NA | | NA | | NA | | NA | |
| BZ#167 | NA | | No Data | NA | | NA | | NA | | NA | |
| BZ#169 | NA | | No Data | NA | | NA | | NA | | NA | |
| BZ#189 | NA | | No Data | NA | | NA | | NA | | NA | |
| BZ#77 | NA | | No Data | NA | | NA | | NA | | NA | |
| BZ#81 | NA | | No Data | NA | | NA | | NA | | NA | |

**Table F-6. Summary of Site-Specific BAFs for Dioxin/Furan and Dioxin-like PCB Congeners**
**Anniston PCB Site, Anniston, Alabama**

| | Sitewide Median BAF Sediment BAFs [1] (dw/dw) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Congeners** | **Emergent Insects** | **BAF Type** | **Bottom Fish** | **BAF Type** | **Forage Fish** | **BAF Type** | **Predator Fish** | **BAF Type** | **Frogs** | **BAF Type** | **Snakes** | **BAF Type** | **Molluscs** | **BAF Type** | **All Fish** | **BAF Type** |
| Soil/sediment BSA KM Means (N) | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| Individual Tissue (N) | 2 | | 2 | | 7 | | 1 | | 2 | | 1 | | 2 | | 10 | |
| **PCDD/PCDF Congeners** | | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-HpCDD | 4.55 | median | NA | | NA | | NA | | 0.196 | median | NA | | 0.552 | median | NA | |
| 1,2,3,4,6,7,8-HpCDF | 2.53 | median | 0.173 | median | 0.157 | median | NA | | 0.134 | median | NA | | NA | | 0.165 | median |
| 1,2,3,4,7,8,9-HpCDF | 0.980 | median | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 1,2,3,4,7,8-HxCDD | NA | | NA | | 2.92 | median | 2.68 | median | NA | | NA | | NA | | 2.92 | median |
| 1,2,3,4,7,8-HxCDF | 0.445 | median | NA | | NA | | NA | | 0.378 | median | 0.325 | median | 1.16 | median | NA | |
| 1,2,3,6,7,8-HxCDD | 14.7 | median | NA | | NA | | NA | | NA | | 0.504 | median | NA | | NA | |
| 1,2,3,6,7,8-HxCDF | NA | | NA | | NA | | NA | | 0.624 | median | 0.534 | median | 12.7 | median | NA | |
| 1,2,3,7,8,9-HxCDD | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 1,2,3,7,8,9-HxCDF | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 1,2,3,7,8-PeCDD | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 1,2,3,7,8-PeCDF | 2.11 | median | NA | | 4.35 | median | NA | | 0.999 | median | 0.925 | median | NA | | 4.35 | median |
| 2,3,4,6,7,8-HxCDF | NA | | NA | | NA | | NA | | NA | | 0.352 | median | NA | | NA | |
| 2,3,4,7,8-PeCDF | NA | | 8.15 | median | NA | | NA | | 1.25 | median | 3.80 | median | 6.95 | median | 8.15 | median |
| 2,3,7,8-TCDD | NA | | NA | | 215 | ave ratio | NA | | NA | | 4.77 | median | NA | | 151 | ave ratio |
| 2,3,7,8-TCDF | 2.75 | median | 12.6 | median | 9.48 | median | 12.6 | median | 0.839 | median | 0.983 | median | 55.0 | median | 10.2 | median |
| Octa CDD | 1.86 | median | 0.032 | median | 0.091 | median | NA | | 0.040 | median | 0.055 | median | 0.471 | median | 0.082 | median |
| Octa CDF | 2.07 | median | NA | | NA | | NA | | NA | | 0.051 | median | NA | | NA | |
| **Dioxin-Like PCB Congeners** | | | | | | | | | | | | | | | NA | |
| BZ#105 | 17.9 | median | 13.0 | median | 10.7 | median | 17.5 | median | 3.11 | median | 10.6 | median | 6.81 | median | 11.0 | median |
| BZ#114 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#118 | 20.5 | median | 18.8 | median | 15.5 | median | 26.5 | median | 5.87 | median | 16.6 | median | 12.5 | median | 16.4 | median |
| BZ#123 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#126 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#153 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#156 | 17.6 | median | 15.4 | median | 13.6 | median | 26.3 | median | 4.00 | median | 16.4 | median | 8.38 | median | 14.0 | median |
| BZ#157 | NA | | NA | | 2.26 | ave ratio | NA | | NA | | NA | | NA | | 1.58 | ave ratio |
| BZ#167 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#169 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#189 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#77 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#81 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |

**Table F-6. Summary of Site-Specific BAFs for Dioxin/Furan and Dioxin-like PCB Congeners**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**

[1] Soil and sediment BAFs calculated using soil/sediment Kaplan-Meier Mean in BSA and individual tissue composites (detects only); OU-4 data only.

[2] ave ratio: site-wide average ratio BAF. See Attachment F1 text for details.
median: Sitewide median BAF. See Attachment F1 text for details.

BAF: bioaccumulation factor
BSA: biological sampling area
CDD: chlorodibenzo-p-dioxin
CDF: chlorodibenzo-p-furan
dw: dry weight
KM: Kaplan-Meier
HpCDD: heptachlorodibenzo-p-dioxin
HpCDF: heptachlorodibenzofuran
HxCDD: hexachlorodibenzo-p-dioxin
HxCDF: hexachlorodibenzofuran
N: number of samples
NA: Not available because dioxin/furan congeners were not detected above the laboratory reporting limits in tissue sampl
PCB: polychlorinated biphenyl
PCDD: polychlorinated dibenzodioxin
PCDF: polychlorinated dibenzofuran
PeCDD: pentachlorodibenzo-p-dioxin
PeCDF: pentachlorodibenzofuran
TCDD: tetrachlorodibenzo-p-dioxin
TCDF: tetrachlorodibenzofuran

**Table F-7. Terrestrial Invertebrate BAFs for Dioxin/Furan and Dioxin-like PCB Congeners**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BAF [a] (kg dw/kg dw) | |
|---|---|---|
| **Dioxins** | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 0.176 | b |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 0.0 | b |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 0.0 | b |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 0.0013 | b |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 0.0 | b |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 0.021 | b |
| Octachlorodibenzo-p-dioxin | 0.026 | b |
| **Furans** | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 0.104 | b |
| 1,2,3,7,8-Pentachlorodibenzofuran | 0.077 | b |
| 2,3,4,7,8-Pentachlorodibenzofuran | 0.056 | b |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 0.046 | b |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 0.061 | b |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 0.092 | b |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 0.031 | b |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 0.031 | b |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 0.029 | b |
| Octachlorodibenzofuran | 0.026 | b |
| **Non-ortho PCBs** | | |
| 3,3',4,4'-TCB (77) | 0.031 | c |
| 3,4,4',5-TCB (81) | 0.031 | c |
| 3,3',4,4',5-PeCB (126) | 0.031 | c |
| 3,3',4,4',5,5'-HxCB (169) | 0.031 | c |
| **Mono-ortho PCBs** | | |
| 2,3,3',4,4'-PeCB (105) | 0.031 | c |
| 2,3,4,4',5-PeCB (114) | 0.031 | c |
| 2,3',4,4',5-PeCB (118) | 0.031 | c |
| 2',3,4,4',5-PeCB (123) | 0.031 | c |
| 2,3,3',4,4',5-HxCB (156) | 0.031 | c |
| 2,3,3',4,4',5'-HxCB (157) | 0.031 | c |
| 2,3',4,4',5,5'-HxCB (167) | 0.031 | c |
| 2,3,3',4,4',5,5'-HeCB (189) | 0.031 | c |
| 2,2',4,4',5,5'-HxCB (153) | 0.031 | c |

**Notes:**
Data from Fagervold et al. (2010)
a. BAF calculated from BSAF assuming lipid content (2.3%) and total solids content (32%) from OU-4 earthworms
b. average of available congener-specific BAFs
c. median of available polychlorinated dibenzodioxin/polychlorinated dibenzofuran BAFs
%: percent
BAF: bioaccumulation factor
BSAF: biota-soil accumulation factor
HeCB: hepachlorobyphenyl
HxCB: hexachlorobyphenyl
kg dw/kg dw:kilograms dry weight per kilogram dry weight
PCB: polychlorinated biphenyl
PeCB: pentachlorobiphenyl
TCB: tetrachlorobiphenyl

**Table F-8. Modeled Tissue Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD | Minimum Detect | Maximum Detect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Upper Assessment Area** | | | | | | | | | | | | | | | |
| **Mammals** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 38 | / | 38 | 100 | 3.228 | 54.75 | 25.89 | 22.73 | 168 | 12.96 | N/A | N/A | 54.75 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 39 | / | 39 | 100 | 2.112 | 21.36 | 9.284 | 8.725 | 26 | 5.099 | N/A | N/A | 21.36 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 39 | / | 39 | 100 | 2.471 | 72.46 | 34.51 | 31.83 | 310.8 | 17.63 | N/A | N/A | 72.46 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 38 | / | 38 | 100 | 1.146 | 19.82 | 8.994 | 8.029 | 20.57 | 4.536 | 10.24 | 95% Student's-t UCL | 10.24 | UCL |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 39 | / | 39 | 100 | 1.074 | 11.34 | 4.824 | 4.465 | 7.277 | 2.698 | 5.553 | 95% Student's-t UCL | 5.553 | UCL |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 39 | / | 39 | 100 | 1.252 | 29.18 | 13.59 | 12.37 | 48.56 | 6.968 | 15.47 | 95% Student's-t UCL | 15.47 | UCL |
| **Terrestrial Invertebrates** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 38 | / | 38 | 100 | 0.312 | 9.233 | 3.18 | 2.791 | 3.634 | 1.906 | 3.702 | 95% Student's-t UCL | 3.702 | UCL |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 39 | / | 39 | 100 | 0.0636 | 87.3 | 6.747 | 0.303 | 395.7 | 19.89 | 20.63 | 95% Chebyshev (Mean, Sd) UCL | 20.63 | UCL |
| Avian Total TEQ (ND=0) | ng/kg dw | 39 | / | 39 | 100 | 0.0803 | 90.83 | 9.846 | 3.24 | 402.2 | 20.06 | 23.84 | 95% Chebyshev (Mean, Sd) UCL | 23.84 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 38 | / | 38 | 100 | 0.0905 | 1.705 | 0.743 | 0.706 | 0.128 | 0.358 | 0.841 | 95% Student's-t UCL | 0.841 | UCL |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 39 | / | 39 | 100 | 0.0394 | 87.13 | 6.634 | 0.183 | 395.6 | 19.89 | 20.52 | 95% Chebyshev (Mean, Sd) UCL | 20.52 | UCL |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 39 | / | 39 | 100 | 0.0506 | 87.94 | 7.358 | 0.941 | 395.8 | 19.9 | 21.24 | 95% Chebyshev (Mean, Sd) UCL | 21.24 | UCL |
| **Terrestrial Plants** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 38 | / | 38 | 100 | 0.234 | 7.427 | 2.283 | 1.941 | 2.154 | 1.468 | 2.755 | 95% Adjusted Gamma UCL | 2.755 | UCL |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 39 | / | 39 | 100 | 0.21 | 2.448 | 1.066 | 0.917 | 0.381 | 0.617 | 1.233 | 95% Student's-t UCL | 1.233 | UCL |
| Avian Total TEQ (ND=0) | ng/kg dw | 39 | / | 39 | 100 | 0.261 | 8.261 | 3.291 | 3.348 | 3.134 | 1.77 | 3.769 | 95% Student's-t UCL | 3.769 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 38 | / | 38 | 100 | 0.158 | 1.906 | 0.959 | 0.885 | 0.164 | 0.405 | 1.07 | 95% Student's-t UCL | 1.07 | UCL |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 39 | / | 39 | 100 | 0.15 | 1.75 | 0.74 | 0.674 | 0.181 | 0.426 | 0.855 | 95% Student's-t UCL | 0.855 | UCL |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 39 | / | 39 | 100 | 0.183 | 3.201 | 1.674 | 1.592 | 0.612 | 0.782 | 1.885 | 95% Student's-t UCL | 1.885 | UCL |
| **Aquatic Plants** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.00327 | 104.3 | 28.24 | 15.39 | 1889 | 43.46 | N/A | N/A | 104.3 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.0116 | 2.629 | 1.066 | 0.669 | 1.373 | 1.172 | N/A | N/A | 2.629 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.00327 | 104.3 | 18.32 | 0.857 | 1291 | 35.93 | 196.9 | 95% Adjusted Gamma UCL | 104.3 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.0166 | 13.81 | 3.679 | 1.893 | 33.2 | 5.762 | N/A | N/A | 13.81 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.0348 | 1.814 | 0.783 | 0.557 | 0.57 | 0.755 | N/A | N/A | 1.814 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.0166 | 13.81 | 2.789 | 0.387 | 22.49 | 4.742 | 18.01 | 95% Adjusted Gamma UCL | 13.81 | Maximum |
| **Benthic Invertebrates** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.0051 | 482.2 | 132.3 | 77.52 | 40107 | 200.3 | N/A | N/A | 482.2 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.021 | 7.564 | 3.127 | 2.128 | 11.62 | 3.409 | N/A | N/A | 7.564 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.0051 | 482.2 | 84.62 | 3.525 | 27582 | 166.1 | 1003 | 95% Adjusted Gamma UCL | 482.2 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.027 | 68.72 | 18.93 | 11.39 | 812.1 | 28.5 | N/A | N/A | 68.72 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.0629 | 4.121 | 1.775 | 1.281 | 3.06 | 1.749 | N/A | N/A | 4.121 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.027 | 68.72 | 12.94 | 1.062 | 558.5 | 23.63 | 102.3 | 95% Adjusted Gamma UCL | 68.72 | Maximum |
| **Crayfish** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.00086 | 83.61 | 23.19 | 14.06 | 1201 | 34.65 | N/A | N/A | 83.61 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.0194 | 4.307 | 1.766 | 1.154 | 3.692 | 1.921 | N/A | N/A | 4.307 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.00086 | 83.61 | 15.6 | 1.027 | 830.9 | 28.82 | 161.7 | 95% Adjusted Gamma UCL | 83.61 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.0045 | 11.66 | 3.357 | 2.275 | 23 | 4.795 | N/A | N/A | 11.66 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.0582 | 3.006 | 1.304 | 0.941 | 1.564 | 1.251 | N/A | N/A | 3.006 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.0045 | 11.66 | 2.913 | 0.643 | 17.32 | 4.161 | 18.76 | 95% Adjusted Gamma UCL | 11.66 | Maximum |

**Table F-8. Modeled Tissue Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD | Minimum Detect | Maximum Detect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Emergent Insects** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.0483 | 193.3 | 52.03 | 28.3 | 6488 | 80.55 | N/A | N/A | 193.3 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.452 | 98.61 | 40.53 | 26.69 | 1935 | 43.98 | N/A | N/A | 98.61 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.0483 | 193.3 | 57.85 | 14.68 | 5723 | 75.65 | 425.1 | 95% Adjusted Gamma UCL | 193.3 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.354 | 34.98 | 9.583 | 4.65 | 206.1 | 14.36 | N/A | N/A | 34.98 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 1.355 | 69.49 | 30.2 | 21.87 | 835.1 | 28.9 | N/A | N/A | 69.49 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.354 | 75.29 | 24.86 | 14.94 | 787.3 | 28.06 | 43.66 | 95% Student's-t UCL | 43.66 | UCL |
| **Frogs** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.00085 | 87.25 | 24.6 | 15.64 | 1300 | 36.05 | N/A | N/A | 87.25 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.129 | 19.84 | 8.234 | 5.546 | 76.92 | 8.771 | N/A | N/A | 19.84 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.00085 | 87.25 | 20.52 | 3.262 | 960.9 | 31 | 179.9 | 95% Adjusted Gamma UCL | 87.25 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.0059 | 19.74 | 5.499 | 3.467 | 66.68 | 8.166 | N/A | N/A | 19.74 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.388 | 17.37 | 7.63 | 5.628 | 50.82 | 7.129 | N/A | N/A | 17.37 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.0059 | 21.38 | 8.205 | 3.959 | 85.64 | 9.254 | 14.4 | 95% Student's-t UCL | 14.4 | UCL |
| **Molluscs** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.0059 | 3689 | 1009 | 581.7 | 2350469 | 1533 | N/A | N/A | 3689 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.274 | 42.71 | 17.71 | 11.9 | 356.8 | 18.89 | N/A | N/A | 42.71 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.0059 | 3689 | 641.5 | 24.83 | 1614294 | 1271 | 7838 | 95% Adjusted Gamma UCL | 3689 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.027 | 440.4 | 120.3 | 69.85 | 33488 | 183 | N/A | N/A | 440.4 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.822 | 37.02 | 16.25 | 11.98 | 231.1 | 15.2 | N/A | N/A | 37.02 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.027 | 440.4 | 85.34 | 8.514 | 22910 | 151.4 | 682.1 | 95% Adjusted Gamma UCL | 440.4 | Maximum |
| **Snakes** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.00119 | 145.4 | 42.47 | 30.4 | 3562 | 59.68 | N/A | N/A | 145.4 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.365 | 68.17 | 28.23 | 19.01 | 918.9 | 30.31 | N/A | N/A | 68.17 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.00119 | 145.4 | 44.19 | 10.58 | 3311 | 57.54 | 377.7 | 95% Adjusted Gamma UCL | 145.4 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.00822 | 34.56 | 10.23 | 7.647 | 200.3 | 14.15 | N/A | N/A | 34.56 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 1.096 | 52.74 | 23.06 | 16.91 | 475.4 | 21.8 | N/A | N/A | 52.74 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.00822 | 61.17 | 20.81 | 11.7 | 556.3 | 23.59 | 36.6 | 95% Student's-t UCL | 36.6 | UCL |
| **Forage Fish** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.00086 | 618.8 | 168 | 93.94 | 66327 | 257.5 | N/A | N/A | 618.8 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.341 | 64.52 | 26.75 | 17.81 | 828.5 | 28.78 | N/A | N/A | 64.52 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.00086 | 618.8 | 121.7 | 11.98 | 45659 | 213.7 | 1252 | 95% Adjusted Gamma UCL | 618.8 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.0026 | 63.79 | 17.32 | 9.737 | 704.6 | 26.54 | N/A | N/A | 63.79 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 1.024 | 49.52 | 21.66 | 15.82 | 420.5 | 20.51 | N/A | N/A | 49.52 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.0026 | 63.79 | 24.36 | 10.93 | 789.5 | 28.1 | 43.18 | 95% Student's-t UCL | 43.18 | UCL |
| Fish PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.00086 | 34.47 | 9.57 | 5.952 | 203.9 | 14.28 | N/A | N/A | 34.47 | Maximum |
| Fish DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.171 | 8.254 | 3.61 | 2.636 | 11.68 | 3.418 | N/A | N/A | 8.254 | Maximum |
| Fish Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.00086 | 34.47 | 8.237 | 1.822 | 147.2 | 12.13 | 61.92 | 95% Adjusted Gamma UCL | 34.47 | Maximum |

**Table F-8. Modeled Tissue Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD | Minimum Detect | Maximum Detect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Bottom Fish** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.0003 | 970.2 | 270.1 | 163 | 161515 | 401.9 | N/A | N/A | 970.2 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.413 | 77.21 | 31.88 | 21.25 | 1178 | 34.32 | N/A | N/A | 77.21 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.0003 | 970.2 | 188.7 | 15.72 | 112364 | 335.2 | 2085 | 95% Adjusted Gamma UCL | 970.2 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.00089 | 129.2 | 37.14 | 25.02 | 2830 | 53.2 | N/A | N/A | 129.2 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 1.238 | 59.64 | 26.05 | 19.04 | 607.9 | 24.66 | N/A | N/A | 59.64 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.00089 | 129.2 | 39.5 | 13.18 | 2471 | 49.71 | 302.3 | 95% Adjusted Gamma UCL | 129.2 | Maximum |
| Fish PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.0003 | 120.2 | 36.37 | 28.22 | 2412 | 49.12 | N/A | N/A | 120.2 | Maximum |
| Fish DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.206 | 9.94 | 4.341 | 3.173 | 16.89 | 4.109 | N/A | N/A | 9.94 | Maximum |
| Fish Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.0003 | 120.2 | 25.44 | 2.337 | 1755 | 41.89 | 236.2 | 95% Adjusted Gamma UCL | 120.2 | Maximum |
| **Predator Fish** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 4 | / | 4 | 100 | 7.9 | 810 | 274.5 | 140.1 | 131594 | 362.8 | N/A | N/A | 810 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.584 | 111.1 | 45.99 | 30.91 | 2445 | 49.44 | N/A | N/A | 111.1 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 7 | / | 7 | 100 | 0.584 | 810 | 189.7 | 30.91 | 86723 | 294.5 | N/A | N/A | 810 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 4 | / | 4 | 100 | 0.79 | 81 | 27.51 | 14.13 | 1314 | 36.25 | N/A | N/A | 81 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 1.751 | 84.93 | 37.11 | 27.18 | 1235 | 35.14 | N/A | N/A | 84.93 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 7 | / | 7 | 100 | 0.79 | 101 | 42.23 | 27.18 | 1756 | 41.9 | N/A | N/A | 101 | Maximum |
| Fish PCDD/PCDF TEQ (ND=0) | ng/kg dw | 4 | / | 4 | 100 | 0.4 | 40 | 13.94 | 7.68 | 314 | 17.72 | N/A | N/A | 40 | Maximum |
| Fish DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.292 | 14.15 | 6.185 | 4.531 | 34.3 | 5.856 | N/A | N/A | 14.15 | Maximum |
| Fish Total TEQ (ND=0) | ng/kg dw | 7 | / | 7 | 100 | 0.292 | 40 | 12.38 | 4.531 | 225.7 | 15.02 | N/A | N/A | 40 | Maximum |
| **All Fish** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.00077 | 828.8 | 231.9 | 143.9 | 117598 | 342.9 | N/A | N/A | 828.8 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.36 | 66.78 | 27.67 | 18.45 | 884.7 | 29.74 | N/A | N/A | 66.78 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.00077 | 828.8 | 162.2 | 13.7 | 82067 | 286.5 | 1727 | 95% Adjusted Gamma UCL | 828.8 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.0023 | 116.8 | 33.81 | 23.44 | 2307 | 48.03 | N/A | N/A | 116.8 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 1.08 | 51.85 | 22.68 | 16.58 | 460 | 21.45 | N/A | N/A | 51.85 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.0023 | 116.8 | 35.31 | 11.48 | 1998 | 44.7 | 256.5 | 95% Adjusted Gamma UCL | 116.8 | Maximum |
| Fish PCDD/PCDF TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.00077 | 117.5 | 35.76 | 28.25 | 2301 | 47.97 | N/A | N/A | 117.5 | Maximum |
| Fish DL-PCB TEQ (ND=0) | ng/kg dw | 5 | / | 5 | 100 | 0.18 | 8.642 | 3.78 | 2.764 | 12.78 | 3.575 | N/A | N/A | 8.642 | Maximum |
| Fish Total TEQ (ND=0) | ng/kg dw | 8 | / | 8 | 100 | 0.00077 | 117.5 | 24.71 | 2.129 | 1676 | 40.94 | 223.4 | 95% Adjusted Gamma UCL | 117.5 | Maximum |
| **Middle Assessment Area** | | | | | | | | | | | | | | | |
| **Mammals** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 34 | / | 34 | 100 | 1.735 | 141.4 | 31.34 | 22.72 | 724.8 | 26.92 | N/A | N/A | 141.4 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 35 | / | 35 | 100 | 0.892 | 18.44 | 7.186 | 6.646 | 17.83 | 4.223 | N/A | N/A | 18.44 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 35 | / | 35 | 100 | 4.198 | 146.5 | 37.63 | 31.38 | 847.5 | 29.11 | N/A | N/A | 146.5 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 34 | / | 34 | 100 | 0.714 | 46.2 | 10.67 | 8.384 | 76.14 | 8.726 | 13.47 | 95% Adjusted Gamma UCL | 13.47 | UCL |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 35 | / | 35 | 100 | 0.442 | 9.404 | 3.705 | 3.41 | 4.854 | 2.203 | 4.489 | 95% Adjusted Gamma UCL | 4.489 | UCL |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 35 | / | 35 | 100 | 1.911 | 48.85 | 14.07 | 11.81 | 99.61 | 9.98 | 17.43 | 95% Adjusted Gamma UCL | 17.43 | UCL |
| **Terrestrial Invertebrates** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 34 | / | 34 | 100 | 0.789 | 47.55 | 8.671 | 6.375 | 87.66 | 9.363 | 11.63 | 95% Adjusted Gamma UCL | 11.63 | UCL |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 35 | / | 35 | 100 | 0.0248 | 110.2 | 3.374 | 0.213 | 345.5 | 18.59 | 17.07 | 95% Chebyshev (Mean, Sd) UCL | 17.07 | UCL |
| Avian Total TEQ (ND=0) | ng/kg dw | 35 | / | 35 | 100 | 0.157 | 119.3 | 11.8 | 6.628 | 438.2 | 20.93 | 21.5 | 95% H-UCL | 21.5 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 34 | / | 34 | 100 | 0.165 | 6.313 | 1.644 | 1.343 | 2.207 | 1.485 | 2.128 | 95% Adjusted Gamma UCL | 2.128 | UCL |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 35 | / | 35 | 100 | 0.0157 | 0.363 | 0.148 | 0.132 | 0.00758 | 0.087 | 0.18 | 95% Adjusted Gamma UCL | 0.18 | UCL |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 35 | / | 35 | 100 | 0.0956 | 6.605 | 1.745 | 1.456 | 2.373 | 1.54 | 2.259 | 95% Adjusted Gamma UCL | 2.259 | UCL |

**Table F-8. Modeled Tissue Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD | Minimum Detect | Maximum Detect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Terrestrial Plants** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 34 | / | 34 | 100 | 0.542 | 37.51 | 6.586 | 4.499 | 54.03 | 7.351 | 8.888 | 95% Adjusted Gamma UCL | 8.888 | UCL |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 35 | / | 35 | 100 | 0.0829 | 2.22 | 0.79 | 0.699 | 0.258 | 0.508 | 0.971 | 95% Adjusted Gamma UCL | 0.971 | UCL |
| Avian Total TEQ (ND=0) | ng/kg dw | 35 | / | 35 | 100 | 0.537 | 39.11 | 7.188 | 5.748 | 57.34 | 7.572 | 9.495 | 95% Adjusted Gamma UCL | 9.495 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 34 | / | 34 | 100 | 0.196 | 6.169 | 1.876 | 1.582 | 2.1 | 1.449 | 2.377 | 95% Adjusted Gamma UCL | 2.377 | UCL |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 35 | / | 35 | 100 | 0.0608 | 1.464 | 0.556 | 0.5 | 0.119 | 0.345 | 0.679 | 95% Adjusted Gamma UCL | 0.679 | UCL |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 35 | / | 35 | 100 | 0.257 | 7.303 | 2.379 | 1.93 | 2.841 | 1.686 | 2.955 | 95% Adjusted Gamma UCL | 2.955 | UCL |
| **Aquatic Plants** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 3.068 | 52.97 | 23.41 | 14.19 | 686.2 | 26.19 | N/A | N/A | 52.97 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 0.996 | 3.416 | 2.601 | 3.391 | 1.932 | 1.39 | N/A | N/A | 3.416 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 4.064 | 56.36 | 26.01 | 17.61 | 736.6 | 27.14 | N/A | N/A | 56.36 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 0.361 | 6.35 | 2.769 | 1.595 | 9.999 | 3.162 | N/A | N/A | 6.35 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 0.626 | 2.413 | 1.787 | 2.321 | 1.012 | 1.006 | N/A | N/A | 2.413 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 0.988 | 8.763 | 4.556 | 3.916 | 15.42 | 3.927 | N/A | N/A | 8.763 | Maximum |
| **Benthic Invertebrates** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 12.28 | 254 | 111.4 | 67.88 | 16031 | 126.6 | N/A | N/A | 254 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 3.212 | 10.56 | 7.555 | 8.895 | 14.83 | 3.852 | N/A | N/A | 10.56 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 15.49 | 264.6 | 119 | 76.78 | 16846 | 129.8 | N/A | N/A | 264.6 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 1.404 | 34.33 | 14.81 | 8.705 | 299 | 17.29 | N/A | N/A | 34.33 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 1.555 | 5.687 | 4.084 | 5.009 | 4.91 | 2.216 | N/A | N/A | 5.687 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 2.959 | 40.02 | 18.9 | 13.71 | 363.5 | 19.06 | N/A | N/A | 40.02 | Maximum |
| **Crayfish** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 2.041 | 44.95 | 19.67 | 12.02 | 504.3 | 22.46 | N/A | N/A | 44.95 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 1.704 | 5.747 | 4.277 | 5.379 | 4.999 | 2.236 | N/A | N/A | 5.747 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 3.744 | 50.7 | 23.95 | 17.4 | 583.4 | 24.15 | N/A | N/A | 50.7 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 0.216 | 6.598 | 2.836 | 1.694 | 11.16 | 3.341 | N/A | N/A | 6.598 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 1.059 | 4.057 | 2.965 | 3.78 | 2.746 | 1.657 | N/A | N/A | 4.057 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 1.274 | 10.66 | 5.801 | 5.474 | 22.08 | 4.699 | N/A | N/A | 10.66 | Maximum |
| **Emergent Insects** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 5.529 | 96.56 | 42.6 | 25.7 | 2285 | 47.81 | N/A | N/A | 96.56 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 39.3 | 132.4 | 97.97 | 122.2 | 2608 | 51.07 | N/A | N/A | 132.4 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 44.83 | 229 | 140.6 | 147.9 | 8518 | 92.29 | N/A | N/A | 229 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 0.825 | 22.24 | 8.9 | 3.634 | 135.4 | 11.64 | N/A | N/A | 22.24 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 24.54 | 94.05 | 68.57 | 87.11 | 1466 | 38.29 | N/A | N/A | 94.05 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 25.36 | 116.3 | 77.46 | 90.74 | 2199 | 46.89 | N/A | N/A | 116.3 | Maximum |
| **Frogs** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 1.704 | 45.85 | 19.84 | 11.97 | 533.8 | 23.1 | N/A | N/A | 45.85 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 7.87 | 26.88 | 19.71 | 24.38 | 106.7 | 10.33 | N/A | N/A | 26.88 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 9.574 | 72.73 | 39.55 | 36.34 | 1005 | 31.7 | N/A | N/A | 72.73 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 0.235 | 9.282 | 3.927 | 2.265 | 22.54 | 4.747 | N/A | N/A | 9.282 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 6.008 | 23.6 | 17.12 | 21.74 | 93.43 | 9.666 | N/A | N/A | 23.6 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 6.243 | 32.88 | 21.04 | 24.01 | 184 | 13.57 | N/A | N/A | 32.88 | Maximum |

**Table F-8. Modeled Tissue Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD | Minimum Detect | Maximum Detect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Molluscs** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 110.2 | 1901 | 848.1 | 533 | 876259 | 936.1 | N/A | N/A | 1901 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 16.93 | 57.78 | 42.43 | 52.57 | 494.5 | 22.24 | N/A | N/A | 57.78 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 127.1 | 1959 | 890.5 | 585.6 | 908548 | 953.2 | N/A | N/A | 1959 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 11.18 | 218.7 | 96.47 | 59.52 | 11791 | 108.6 | N/A | N/A | 218.7 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 12.81 | 50.28 | 36.48 | 46.36 | 424.2 | 20.6 | N/A | N/A | 50.28 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 23.99 | 269 | 133 | 105.9 | 15556 | 124.7 | N/A | N/A | 269 | Maximum |
| **Snakes** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 1.99 | 86.2 | 36.75 | 22.05 | 1935 | 43.99 | N/A | N/A | 86.2 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 27.52 | 92.93 | 67.82 | 83 | 1243 | 35.25 | N/A | N/A | 92.93 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 29.51 | 179.1 | 104.6 | 105 | 5597 | 74.81 | N/A | N/A | 179.1 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 0.25 | 22.27 | 9.294 | 5.358 | 132.9 | 11.53 | N/A | N/A | 22.27 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 18.57 | 71.83 | 52.03 | 65.71 | 849.3 | 29.14 | N/A | N/A | 71.83 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 18.82 | 94.1 | 61.33 | 71.07 | 1488 | 38.57 | N/A | N/A | 94.1 | Maximum |
| **Forage Fish** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 18.23 | 433.1 | 190.3 | 119.7 | 46778 | 216.3 | N/A | N/A | 433.1 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 25.84 | 87.38 | 64.14 | 79.2 | 1117 | 33.42 | N/A | N/A | 87.38 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 44.08 | 520.5 | 254.5 | 198.9 | 59064 | 243 | N/A | N/A | 520.5 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 1.905 | 143.4 | 62.11 | 40.98 | 5343 | 73.1 | N/A | N/A | 143.4 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 17.39 | 67.27 | 48.85 | 61.89 | 749.6 | 27.38 | N/A | N/A | 67.27 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 19.29 | 210.7 | 111 | 102.9 | 9210 | 95.97 | N/A | N/A | 210.7 | Maximum |
| Fish PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 1.203 | 129.9 | 56.02 | 36.97 | 4411 | 66.42 | N/A | N/A | 129.9 | Maximum |
| Fish DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 2.898 | 11.21 | 8.141 | 10.31 | 20.82 | 4.563 | N/A | N/A | 11.21 | Maximum |
| Fish Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 4.101 | 141.1 | 64.16 | 47.28 | 4905 | 70.03 | N/A | N/A | 141.1 | Maximum |
| **Bottom Fish** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 24 | 530.1 | 233 | 145 | 69836 | 264.3 | N/A | N/A | 530.1 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 30.81 | 104.3 | 76.73 | 95.07 | 1603 | 40.03 | N/A | N/A | 104.3 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 54.81 | 634.4 | 309.8 | 240.1 | 87613 | 296 | N/A | N/A | 634.4 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 2.403 | 74.08 | 32.03 | 19.61 | 1400 | 37.42 | N/A | N/A | 74.08 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 20.9 | 80.94 | 58.82 | 74.62 | 1089 | 32.99 | N/A | N/A | 80.94 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 23.3 | 155 | 90.85 | 94.23 | 4346 | 65.93 | N/A | N/A | 155 | Maximum |
| Fish PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 1.203 | 74.07 | 31.36 | 18.81 | 1446 | 38.02 | N/A | N/A | 74.07 | Maximum |
| Fish DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 3.483 | 13.49 | 9.803 | 12.44 | 30.24 | 5.499 | N/A | N/A | 13.49 | Maximum |
| Fish Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 4.685 | 87.56 | 41.16 | 31.25 | 1791 | 42.32 | N/A | N/A | 87.56 | Maximum |
| **Predator Fish** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 24.02 | 420.2 | 188.1 | 120 | 42718 | 206.7 | N/A | N/A | 420.2 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 44.84 | 151.3 | 110.6 | 135.5 | 3302 | 57.46 | N/A | N/A | 151.3 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 68.86 | 571.6 | 298.6 | 255.5 | 64572 | 254.1 | N/A | N/A | 571.6 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 2.434 | 42.44 | 18.98 | 12.07 | 436 | 20.88 | N/A | N/A | 42.44 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 29.93 | 115.6 | 83.79 | 105.8 | 2200 | 46.9 | N/A | N/A | 115.6 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 32.36 | 158.1 | 102.8 | 117.9 | 4121 | 64.2 | N/A | N/A | 158.1 | Maximum |
| Fish PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 1.37 | 23.2 | 10.23 | 6.12 | 131.8 | 11.48 | N/A | N/A | 23.2 | Maximum |
| Fish DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 4.988 | 19.27 | 13.97 | 17.64 | 61.11 | 7.817 | N/A | N/A | 19.27 | Maximum |
| Fish Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 6.358 | 42.47 | 24.2 | 23.76 | 326.1 | 18.06 | N/A | N/A | 42.47 | Maximum |

**Table F-8. Modeled Tissue Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD | Minimum Detect | Maximum Detect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **All Fish** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 20.23 | 528.1 | 230 | 141.7 | 70340 | 265.2 | N/A | N/A | 528.1 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 26.72 | 90.43 | 66.38 | 81.98 | 1197 | 34.6 | N/A | N/A | 90.43 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 46.95 | 618.6 | 296.4 | 223.6 | 85649 | 292.7 | N/A | N/A | 618.6 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 2.105 | 142.4 | 61.27 | 39.28 | 5286 | 72.71 | N/A | N/A | 142.4 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 18.18 | 70.44 | 51.15 | 64.81 | 822.9 | 28.69 | N/A | N/A | 70.44 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 20.29 | 212.9 | 112.4 | 104.1 | 9325 | 96.57 | N/A | N/A | 212.9 | Maximum |
| Fish PCDD/PCDF TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 1.283 | 148.9 | 63.51 | 40.37 | 5848 | 76.47 | N/A | N/A | 148.9 | Maximum |
| Fish DL-PCB TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 3.03 | 11.74 | 8.524 | 10.8 | 22.86 | 4.781 | N/A | N/A | 11.74 | Maximum |
| Fish Total TEQ (ND=0) | ng/kg dw | 3 | / | 3 | 100 | 4.313 | 160.6 | 72.03 | 51.17 | 6434 | 80.21 | N/A | N/A | 160.6 | Maximum |
| **Lower Assessment Area** | | | | | | | | | | | | | | | |
| **Mammals** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 28 | / | 28 | 100 | 0.0041 | 72.39 | 14.64 | 6.18 | 428.4 | 20.7 | N/A | N/A | 72.39 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 24 | / | 24 | 100 | 0.0124 | 18.46 | 3.778 | 1.565 | 29.23 | 5.406 | N/A | N/A | 18.46 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 28 | / | 28 | 100 | 0.0041 | 87.76 | 17.87 | 6.698 | 651.2 | 25.52 | N/A | N/A | 87.76 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 28 | / | 28 | 100 | 0.0173 | 25.28 | 5.076 | 2.445 | 45.42 | 6.74 | 8.194 | 95% Adjusted Gamma UCL | 8.194 | UCL |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 24 | / | 24 | 100 | 0.0372 | 9.587 | 1.947 | 0.734 | 7.747 | 2.783 | 3.407 | 95% Adjusted Gamma UCL | 3.407 | UCL |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 28 | / | 28 | 100 | 0.0173 | 33.24 | 6.745 | 3.201 | 85.22 | 9.231 | 11.11 | 95% Adjusted Gamma UCL | 11.11 | UCL |
| **Terrestrial Invertebrates** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 28 | / | 28 | 100 | 0.00362 | 74.38 | 8.856 | 1.677 | 361.2 | 19.01 | 31.29 | 97.5% Chebyshev (Mean, Sd) UCL | 31.29 | UCL |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 24 | / | 24 | 100 | 0.00058946 | 613.1 | 36.48 | 0.269 | 15901 | 126.1 | 282.4 | 95% Hall's Bootstrap UCL | 282.4 | UCL |
| Avian Total TEQ (ND=0) | ng/kg dw | 28 | / | 28 | 100 | 0.00362 | 660.4 | 40.13 | 3.186 | 16470 | 128.3 | 281.4 | 99% Chebyshev (Mean, Sd) UCL | 281.4 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 28 | / | 28 | 100 | 0.0124 | 9.938 | 1.379 | 0.535 | 6.13 | 2.476 | 3.418 | 95% Chebyshev (Mean, Sd) UCL | 3.418 | UCL |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 24 | / | 24 | 100 | 0.00177 | 136.9 | 13.51 | 0.0613 | 1355 | 36.81 | 88.27 | 99% Chebyshev (Mean, Sd) UCL | 88.27 | UCL |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 28 | / | 28 | 100 | 0.0124 | 146.8 | 12.96 | 0.743 | 1320 | 36.33 | 55.84 | 97.5% Chebyshev (Mean, Sd) UCL | 55.84 | UCL |
| **Terrestrial Plants** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 28 | / | 28 | 100 | 0.0126 | 59.04 | 7.014 | 1.348 | 226.2 | 15.04 | 19.4 | 95% Chebyshev (Mean, Sd) UCL | 19.4 | UCL |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 24 | / | 24 | 100 | 0.00255 | 2.085 | 0.41 | 0.125 | 0.351 | 0.593 | 0.736 | 95% Adjusted Gamma UCL | 0.736 | UCL |
| Avian Total TEQ (ND=0) | ng/kg dw | 28 | / | 28 | 100 | 0.0126 | 61.12 | 7.366 | 1.517 | 240.9 | 15.52 | 20.15 | 95% Chebyshev (Mean, Sd) UCL | 20.15 | UCL |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 28 | / | 28 | 100 | 0.05 | 9.798 | 1.498 | 0.762 | 5.647 | 2.376 | 2.982 | 95% H-UCL | 2.982 | UCL |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 24 | / | 24 | 100 | 0.00765 | 1.459 | 0.291 | 0.092 | 0.174 | 0.417 | 0.498 | 95% Adjusted Gamma UCL | 0.498 | UCL |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 28 | / | 28 | 100 | 0.05 | 11.26 | 1.747 | 0.832 | 7.502 | 2.739 | 3.758 | 95% H-UCL | 3.758 | UCL |
| **Aquatic Plants** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 9.416 | 48.85 | 29.13 | 29.13 | 777.5 | 27.88 | N/A | N/A | 48.85 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 1.204 | 3.245 | 2.225 | 2.225 | 2.081 | 1.443 | N/A | N/A | 3.245 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 10.62 | 52.09 | 31.36 | 31.36 | 860 | 29.33 | N/A | N/A | 52.09 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 1.052 | 5.973 | 3.513 | 3.513 | 12.11 | 3.48 | N/A | N/A | 5.973 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 0.746 | 2.312 | 1.529 | 1.529 | 1.227 | 1.108 | N/A | N/A | 2.312 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 1.798 | 8.285 | 5.042 | 5.042 | 21.04 | 4.587 | N/A | N/A | 8.285 | Maximum |
| **Benthic Invertebrates** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 43.18 | 232.3 | 137.7 | 137.7 | 17883 | 133.7 | N/A | N/A | 232.3 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 3.054 | 9.743 | 6.398 | 6.398 | 22.37 | 4.73 | N/A | N/A | 9.743 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 46.23 | 242 | 144.1 | 144.1 | 19171 | 138.5 | N/A | N/A | 242 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 5.575 | 32.03 | 18.8 | 18.8 | 349.9 | 18.71 | N/A | N/A | 32.03 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 1.61 | 5.34 | 3.475 | 3.475 | 6.955 | 2.637 | N/A | N/A | 5.34 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 7.185 | 37.37 | 22.28 | 22.28 | 455.6 | 21.34 | N/A | N/A | 37.37 | Maximum |

**Table F-8. Modeled Tissue Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD | Minimum Detect | Maximum Detect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Crayfish** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 7.873 | 42.74 | 25.3 | 25.3 | 607.7 | 24.65 | N/A | N/A | 42.74 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 1.869 | 5.418 | 3.643 | 3.643 | 6.298 | 2.509 | N/A | N/A | 5.418 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 9.742 | 48.15 | 28.95 | 28.95 | 737.7 | 27.16 | N/A | N/A | 48.15 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 1.104 | 6.389 | 3.747 | 3.747 | 13.96 | 3.737 | N/A | N/A | 6.389 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 1.203 | 3.863 | 2.533 | 2.533 | 3.537 | 1.881 | N/A | N/A | 3.863 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 2.308 | 10.25 | 6.28 | 6.28 | 31.56 | 5.618 | N/A | N/A | 10.25 | Maximum |
| **Emergent Insects** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 16.44 | 88.98 | 52.71 | 52.71 | 2631 | 51.3 | N/A | N/A | 88.98 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 42.32 | 124.5 | 83.41 | 83.41 | 3376 | 58.1 | N/A | N/A | 124.5 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 58.76 | 213.5 | 136.1 | 136.1 | 11968 | 109.4 | N/A | N/A | 213.5 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 2.35 | 21.8 | 12.08 | 12.08 | 189.2 | 13.76 | N/A | N/A | 21.8 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 27.66 | 89.46 | 58.56 | 58.56 | 1909 | 43.69 | N/A | N/A | 89.46 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 30.01 | 111.3 | 70.64 | 70.64 | 3300 | 57.45 | N/A | N/A | 111.3 | Maximum |
| **Frogs** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 7.773 | 43.54 | 25.65 | 25.65 | 639.5 | 25.29 | N/A | N/A | 43.54 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 8.318 | 25.22 | 16.77 | 16.77 | 142.8 | 11.95 | N/A | N/A | 25.22 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 16.09 | 68.76 | 42.42 | 42.42 | 1387 | 37.24 | N/A | N/A | 68.76 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 1.4 | 8.81 | 5.105 | 5.105 | 27.46 | 5.24 | N/A | N/A | 8.81 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 6.776 | 22.47 | 14.62 | 14.62 | 123.2 | 11.1 | N/A | N/A | 22.47 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 8.176 | 31.28 | 19.73 | 19.73 | 266.9 | 16.34 | N/A | N/A | 31.28 | Maximum |
| **Molluscs** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 344.3 | 1798 | 1071 | 1071 | 1057074 | 1028 | N/A | N/A | 1798 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 17.96 | 54.25 | 36.1 | 36.1 | 658.4 | 25.66 | N/A | N/A | 54.25 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 362.2 | 1853 | 1107 | 1107 | 1110496 | 1054 | N/A | N/A | 1853 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 37.61 | 207.1 | 122.3 | 122.3 | 14354 | 119.8 | N/A | N/A | 207.1 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 14.46 | 47.87 | 31.17 | 31.17 | 558.1 | 23.62 | N/A | N/A | 47.87 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 52.08 | 254.9 | 153.5 | 153.5 | 20573 | 143.4 | N/A | N/A | 254.9 | Maximum |
| **Snakes** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 13.75 | 80.47 | 47.11 | 47.11 | 2226 | 47.18 | N/A | N/A | 80.47 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 28.42 | 86.87 | 57.64 | 57.64 | 1708 | 41.33 | N/A | N/A | 86.87 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 42.17 | 167.3 | 104.8 | 104.8 | 7834 | 88.51 | N/A | N/A | 167.3 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 2.975 | 19.33 | 11.15 | 11.15 | 133.7 | 11.56 | N/A | N/A | 19.33 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 20.63 | 68.21 | 44.42 | 44.42 | 1132 | 33.64 | N/A | N/A | 68.21 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 23.61 | 87.54 | 55.57 | 55.57 | 2044 | 45.21 | N/A | N/A | 87.54 | Maximum |
| **Forage Fish** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 56.41 | 292.5 | 174.5 | 174.5 | 27870 | 166.9 | N/A | N/A | 292.5 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 27.21 | 81.91 | 54.56 | 54.56 | 1496 | 38.68 | N/A | N/A | 81.91 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 83.62 | 374.4 | 229 | 229 | 42279 | 205.6 | N/A | N/A | 374.4 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 5.761 | 30.22 | 17.99 | 17.99 | 299.1 | 17.29 | N/A | N/A | 30.22 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 19.48 | 63.95 | 41.72 | 41.72 | 989.2 | 31.45 | N/A | N/A | 63.95 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 25.24 | 94.17 | 59.7 | 59.7 | 2376 | 48.74 | N/A | N/A | 94.17 | Maximum |
| Fish PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 3.197 | 18.56 | 10.88 | 10.88 | 118 | 10.86 | N/A | N/A | 18.56 | Maximum |
| Fish DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 3.246 | 10.66 | 6.953 | 6.953 | 27.48 | 5.242 | N/A | N/A | 10.66 | Maximum |
| Fish Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 6.443 | 29.22 | 17.83 | 17.83 | 259.4 | 16.11 | N/A | N/A | 29.22 | Maximum |

**Table F-8. Modeled Tissue Summary Statistics by Assessment Area**
**Anniston PCB Site, Anniston, Alabama**

| Constituent | Units | Summary Statistics | | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Detects | / | Total | FOD | Minimum Detect | Maximum Detect | Mean | Median | Variance | Standard Deviation | 95% UCL | 95% UCL Method | Selected EPC | Basis |
| **Bottom Fish** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 92.01 | 490.1 | 291 | 291 | 79220 | 281.5 | N/A | N/A | 490.1 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 32.7 | 97.88 | 65.29 | 65.29 | 2124 | 46.09 | N/A | N/A | 97.88 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 124.7 | 587.9 | 356.3 | 356.3 | 107290 | 327.6 | N/A | N/A | 587.9 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 12.51 | 70.07 | 41.29 | 41.29 | 1656 | 40.7 | N/A | N/A | 70.07 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 23.49 | 76.98 | 50.24 | 50.24 | 1431 | 37.83 | N/A | N/A | 76.98 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 35.99 | 147.1 | 91.52 | 91.52 | 6167 | 78.53 | N/A | N/A | 147.1 | Maximum |
| Fish PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 12.01 | 71.05 | 41.53 | 41.53 | 1743 | 41.75 | N/A | N/A | 71.05 | Maximum |
| Fish DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 3.915 | 12.83 | 8.373 | 8.373 | 39.75 | 6.305 | N/A | N/A | 12.83 | Maximum |
| Fish Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 15.92 | 83.88 | 49.9 | 49.9 | 2309 | 48.06 | N/A | N/A | 83.88 | Maximum |
| **Predator Fish** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 74.02 | 390.2 | 232.1 | 232.1 | 49992 | 223.6 | N/A | N/A | 390.2 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 46.44 | 141.5 | 93.98 | 93.98 | 4520 | 67.23 | N/A | N/A | 141.5 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 120.5 | 531.7 | 326.1 | 326.1 | 84575 | 290.8 | N/A | N/A | 531.7 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 7.437 | 39.43 | 23.43 | 23.43 | 511.8 | 22.62 | N/A | N/A | 39.43 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 33.28 | 109.8 | 71.54 | 71.54 | 2928 | 54.11 | N/A | N/A | 109.8 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 40.71 | 149.2 | 94.97 | 94.97 | 5888 | 76.73 | N/A | N/A | 149.2 | Maximum |
| Fish PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 3.89 | 21.2 | 12.55 | 12.55 | 149.8 | 12.24 | N/A | N/A | 21.2 | Maximum |
| Fish DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 5.546 | 18.3 | 11.92 | 11.92 | 81.33 | 9.018 | N/A | N/A | 18.3 | Maximum |
| Fish Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 9.436 | 39.5 | 24.47 | 24.47 | 451.9 | 21.26 | N/A | N/A | 39.5 | Maximum |
| **All Fish** | | | | | | | | | | | | | | | |
| Avian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 78.41 | 422.5 | 250.5 | 250.5 | 59200 | 243.3 | N/A | N/A | 422.5 | Maximum |
| Avian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 28.15 | 84.78 | 56.47 | 56.47 | 1603 | 40.04 | N/A | N/A | 84.78 | Maximum |
| Avian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 106.6 | 507.3 | 306.9 | 306.9 | 80287 | 283.4 | N/A | N/A | 507.3 | Maximum |
| Mammalian PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 11.26 | 64.21 | 37.74 | 37.74 | 1402 | 37.44 | N/A | N/A | 64.21 | Maximum |
| Mammalian DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 20.38 | 66.98 | 43.68 | 43.68 | 1086 | 32.95 | N/A | N/A | 66.98 | Maximum |
| Mammalian Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 31.64 | 131.2 | 81.42 | 81.42 | 4955 | 70.39 | N/A | N/A | 131.2 | Maximum |
| Fish PCDD/PCDF TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 11.7 | 71.56 | 41.63 | 41.63 | 1792 | 42.33 | N/A | N/A | 71.56 | Maximum |
| Fish DL-PCB TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 3.396 | 11.16 | 7.28 | 7.28 | 30.16 | 5.492 | N/A | N/A | 11.16 | Maximum |
| Fish Total TEQ (ND=0) | ng/kg dw | 2 | / | 2 | 100 | 15.09 | 82.72 | 48.91 | 48.91 | 2287 | 47.82 | N/A | N/A | 82.72 | Maximum |

**Notes:**

%: percent
cdd: chlorodibenzo-p-dioxin
cdf: chlorodibenzo-p-furan
DL: dioxin-like
DL-PCB: dioxin-like polychlorinated biphenyl
dw: dry weight
EPC: exposure point concentration
FOD: frequency of detection
ft bgs: feet below ground surface
hpcdd: heptachlorodibenzo-p-dioxin
hpcdf: heptachlorodibenzofuran
hxcdd: hexachlorodibenzo-p-dioxin
hxcdf: hexachlorodibenzofuran
KM: Kaplan-Meier
mg/kg: milligram per kilogram
ng/kg: nanogram per kilogram
N/A: not applicable
ND: nondetect
ng/kg: nanogram per kilogram
PCDD: polychlorinated dibenzodioxin
PCDF: polychlorinated dibenzofuran
pecdd: pentachlorodibenzo-p-dioxin
pecdf: pentachlorodibenzofuran
RPD: relative percent difference
Sd: standard deviation
tcdd: tetrachlorodibenzo-p-dioxin
tcdf: tetrachlorodibenzofuran
TEQ: toxic equivalent
TOC: total organic carbon
UCL: upper confidence limit

**Table F-9. Background Screening Assessment for PCDD/PCDF TEQ in OU-4 Soil and Sediment**
**Anniston PCB Site, Anniston, Alabama**

| Sample Matrix | OU | Location ID | Sample Name | Date | PCDD/PCDF TEQ (Human/Mammal-NDs Excluded) (µg/kg) | PCDD/PCDF TEQ (Human/Mammal-NDs used at 1/2 DL) (µg/kg) | PCDD/PCDF TEQ (Human/Mammal-NDs used at 1 DL) (µg/kg) |
|---|---|---|---|---|---|---|---|
| **Upper Assessment Area** | | | | | | | |
| Sediment | OU-4 | CU-006-03 | C10519 | 6/9/2007 | 0.0000664 | 0.000257 | 0.0004476 |
| Sediment | OU-4 | CU-008-03 | C10552 | 6/10/2007 | 0.0314 | 0.0323 | 0.0332 |
| Sediment | OU-4 | CU-010-01 | C10571 | 6/11/2007 | 0.000706 | 0.00096 | 0.001214 |
| Sediment | OU-4 | EUA-01-24 | C10744 | 9/30/2009 | 0.00566 | 0.00582 | 0.00598 |
| Sediment | OU-4 | EUA-02-43 | C10745 | 10/1/2009 | 0.00545 | 0.00562 | 0.00579 |
| Sediment | OU-4 | EUA-02-43 | C10746 | 10/1/2009 | 0.00435 | 0.00463 | 0.00491 |
| Soil | OU-4 | C2N-24 | C70821 | 2/18/2009 | 0.0203 | 0.0217 | 0.0231 |
| Soil | OU-4 | C2N-31 | C70845 | 2/18/2009 | 0.00705 | 0.00803 | 0.00901 |
| Soil | OU-4 | C2S-18 | C70902 | 2/19/2009 | 0.0212 | 0.0222 | 0.0232 |
| Soil | OU-4 | C3N-01 | C70914 | 3/31/2009 | 0.021 | 0.021 | 0.021 |
| Soil | OU-4 | C3N-09 | C70938 | 3/31/2009 | 0.0146 | 0.015 | 0.0154 |
| Soil | OU-4 | C3N-11 | C70944 | 3/31/2009 | 0.0119 | 0.0121 | 0.0123 |
| Soil | OU-4 | C3N-12 | C70947 | 3/31/2009 | 0.0138 | 0.0139 | 0.014 |
| Soil | OU-4 | C3N-24 | C70986 | 3/26/2009 | 0.00205 | 0.00226 | 0.00247 |
| Soil | OU-4 | C3NF-07 | C71004 | 3/31/2009 | 0.0204 | 0.0206 | 0.0208 |
| Soil | OU-4 | C3NF-13 | C71016 | 3/31/2009 | 0.0165 | 0.0166 | 0.0167 |
| Soil | OU-4 | C3NX-04 | C72707 | 8/2/2011 | 0.0111 | 0.0112 | 0.0113 |
| Soil | OU-4 | C3NX-11 | C72721 | 8/3/2011 | 0.0138 | 0.0138 | 0.0138 |
| Soil | OU-4 | C3NX-12 | C72724 | 8/3/2011 | 0.0155 | 0.0158 | 0.0161 |
| Soil | OU-4 | C3NX-18 | C72736 | 8/3/2011 | 0.0163 | 0.0163 | 0.0163 |
| Soil | OU-4 | C3NX-33 | C72820 | 11/15/2011 | 0.0106 | 0.0107 | 0.0108 |
| Soil | OU-4 | C3S-01 | C71034 | 3/31/2009 | 0.0086 | 0.00907 | 0.00954 |
| Soil | OU-4 | C3S-17 | C71082 | 3/30/2009 | 0.00609 | 0.00619 | 0.00629 |
| Soil | OU-4 | C3S-19 | C71088 | 3/30/2009 | 0.00521 | 0.00533 | 0.00545 |
| Soil | OU-4 | C3S-26 | C71112 | 3/25/2009 | 0.0259 | 0.0259 | 0.0259 |
| Soil | OU-4 | C3SX-13 | C72828 | 11/14/2011 | 0.00963 | 0.00997 | 0.01031 |
| Soil | OU-4 | C4N-12 | C71221 | 3/23/2009 | 0.00627 | 0.00635 | 0.00643 |
| Soil | OU-4 | C4N-20 | C71248 | 3/23/2009 | 0.0125 | 0.0125 | 0.0125 |
| Soil | OU-4 | C4N-27 | C71269 | 3/14/2009 | 0.0113 | 0.012 | 0.0127 |
| Soil | OU-4 | C4N-31 | C71281 | 3/13/2009 | 0.00998 | 0.0107 | 0.01142 |
| Soil | OU-4 | C4N-33 | C71287 | 3/13/2009 | 0.0264 | 0.0308 | 0.0352 |
| Soil | OU-4 | C4N-37 | C71300 | 3/13/2009 | 0.0132 | 0.0139 | 0.0146 |
| Soil | OU-4 | C4NF-13 | C71388 | 3/24/2009 | 0.0115 | 0.0116 | 0.0117 |
| Soil | OU-4 | C4S-03 | C71460 | 3/16/2009 | 0.015 | 0.015 | 0.015 |
| Soil | OU-4 | C4S-21 | C71517 | 3/16/2009 | 0.00872 | 0.0091 | 0.00948 |
| Soil | OU-4 | C4S-22 | C71520 | 3/26/2009 | 0.0179 | 0.018 | 0.0181 |
| Soil | OU-4 | C4S-27 | C71535 | 3/25/2009 | 0.0208 | 0.021 | 0.0212 |
| Soil | OU-4 | C4S-27 | C71536 | 3/25/2009 | 0.0143 | 0.0144 | 0.0145 |
| Soil | OU-4 | C4S-31 | C71550 | 3/26/2009 | 0.0166 | 0.0167 | 0.0168 |
| Soil | OU-4 | C4S-41 | C71580 | 3/11/2009 | 0.0144 | 0.0146 | 0.0148 |
| Soil | OU-4 | C4S-49 | C71605 | 3/12/2009 | 0.0223 | 0.0227 | 0.0231 |
| Soil | OU-4 | C4SF-24 | C71685 | 3/11/2009 | 0.0269 | 0.0282 | 0.0295 |
| Soil | OU-4 | EUT-04-08 | C72547 | 9/16/2009 | 0.0144 | 0.0144 | 0.0144 |
| Soil | OU-4 | EUT-07-01 | C72552 | 9/16/2009 | 0.0121 | 0.0122 | 0.0123 |
| Soil | OU-4 | EUT-09-51 | C72556 | 9/18/2009 | 0.0119 | 0.012 | 0.0121 |
| **Middle Assessment Area** | | | | | | | |
| Sediment | OU-4 | EMA-01-02 | C10721 | 9/29/2009 | 0.000454 | 0.000783 | 0.001112 |
| Sediment | OU-4 | EMA-02-09 | C10729 | 9/29/2009 | 0.00315 | 0.00319 | 0.00323 |
| Sediment | OU-4 | EMA-03-35 | C10737 | 9/30/2009 | 0.0151 | 0.0152 | 0.0153 |
| Soil | OU-4 | C4N-47 | C71332 | 3/12/2009 | 0.0207 | 0.0222 | 0.0237 |
| Soil | OU-4 | C4N-48 | C71335 | 3/12/2009 | 0.0167 | 0.0195 | 0.0223 |
| Soil | OU-4 | C4N-53 | C71351 | 3/12/2009 | 0.00636 | 0.0067 | 0.00704 |
| Soil | OU-4 | C4NF-34 | C71432 | 3/12/2009 | 0.0122 | 0.0125 | 0.0128 |
| Soil | OU-4 | C4NF-41 | C71446 | 3/12/2009 | 0.0187 | 0.0195 | 0.0203 |
| Soil | OU-4 | C4SF-33 | C71703 | 3/17/2009 | 0.0277 | 0.0277 | 0.0277 |
| Soil | OU-4 | C5N-11 | C71738 | 3/4/2009 | 0.0203 | 0.0208 | 0.0213 |
| Soil | OU-4 | C5N-12 | C71741 | 3/4/2009 | 0.0433 | 0.0449 | 0.0465 |
| Soil | OU-4 | C5N-13 | C71744 | 3/4/2009 | 0.0374 | 0.0386 | 0.0398 |
| Soil | OU-4 | C5N-14 | C71747 | 3/5/2009 | 0.0217 | 0.0223 | 0.0229 |
| Soil | OU-4 | C5N-15 | C71750 | 3/5/2009 | 0.0192 | 0.0201 | 0.021 |

**Table F-9. Background Screening Assessment for PCDD/PCDF TEQ in OU-4 Soil and Sediment**
**Anniston PCB Site, Anniston, Alabama**

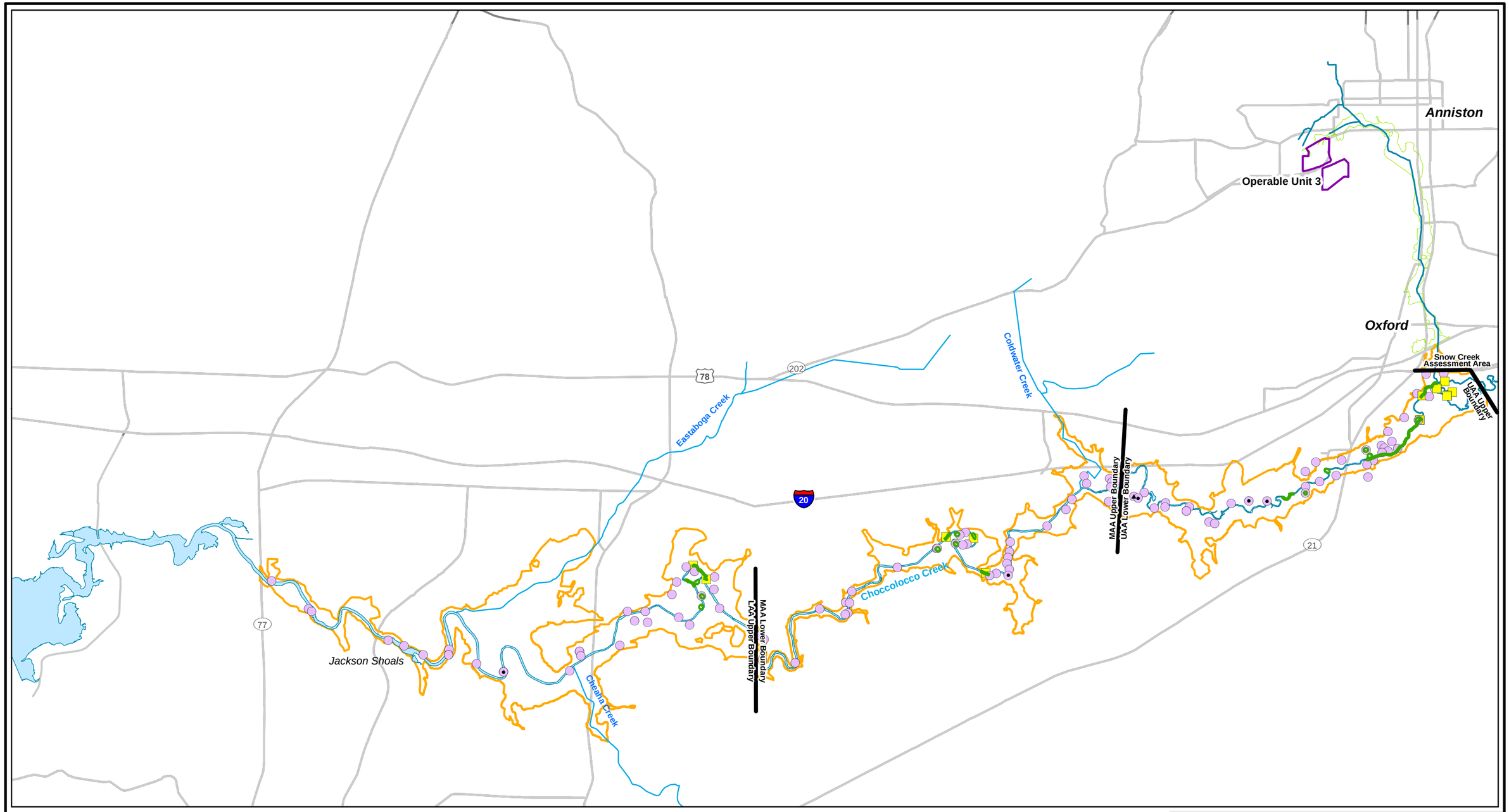
| Sample Matrix | OU | Location ID | Sample Name | Date | PCDD/PCDF TEQ (Human/Mammal-NDs Excluded) (µg/kg) | PCDD/PCDF TEQ (Human/Mammal-NDs used at 1/2 DL) (µg/kg) | PCDD/PCDF TEQ (Human/Mammal-NDs used at 1 DL) (µg/kg) |
|---|---|---|---|---|---|---|---|
| Soil | OU-4 | C5N-18 | C71759 | 3/5/2009 | 0.0236 | 0.0243 | 0.025 |
| Soil | OU-4 | C5N-25 | C71780 | 2/24/2009 | 0.0174 | 0.0197 | 0.022 |
| Soil | OU-4 | C5S-01 | C71893 | 2/24/2009 | 0.0333 | 0.0371 | 0.0409 |
| Soil | OU-4 | C5S-04 | C71905 | 2/24/2009 | 0.00807 | 0.012 | 0.01593 |
| Soil | OU-4 | C5S-09 | C71920 | 2/23/2009 | 0.0143 | 0.0152 | 0.0161 |
| Soil | OU-4 | C5S-15 | C71938 | 2/23/2009 | 0.0541 | 0.055 | 0.0559 |
| Soil | OU-4 | C5S-32 | C71992 | 2/22/2009 | 0.0246 | 0.026 | 0.0274 |
| Soil | OU-4 | C5S-35 | C72001 | 2/22/2009 | 0.0249 | 0.0412 | 0.0575 |
| Soil | OU-4 | C5S-36 | C72004 | 2/22/2009 | 0.0253 | 0.0264 | 0.0275 |
| Soil | OU-4 | C5S-46 | C72034 | 2/22/2009 | 0.0251 | 0.026 | 0.0269 |
| Soil | OU-4 | C6N-05 | C72097 | 3/9/2009 | 0.0155 | 0.0181 | 0.0207 |
| Soil | OU-4 | C6N-07 | C72103 | 3/10/2009 | 0.0123 | 0.0145 | 0.0167 |
| Soil | OU-4 | C6N-09 | C72109 | 3/10/2009 | 0.013 | 0.0144 | 0.0158 |
| Soil | OU-4 | C6N-14 | C72124 | 3/10/2009 | 0.0665 | 0.0686 | 0.0707 |
| Soil | OU-4 | C6N-19 | C72139 | 3/10/2009 | 0.0767 | 0.0794 | 0.0821 |
| Soil | OU-4 | C6N-20 | C72142 | 3/10/2009 | 0.0137 | 0.0147 | 0.0157 |
| Soil | OU-4 | C6S-04 | C72154 | 2/21/2009 | 0.097 | 0.135 | 0.173 |
| Soil | OU-4 | C6S-07 | C72166 | 2/21/2009 | 0.0215 | 0.0234 | 0.0253 |
| Soil | OU-4 | C6S-09 | C72172 | 4/2/2009 | 0.00899 | 0.00926 | 0.00953 |
| Soil | OU-4 | C6S-21 | C72208 | 2/12/2009 | 0.0349 | 0.0492 | 0.0635 |
| Soil | OU-4 | EMT-02-18 | C72524 | 9/16/2009 | 0.00309 | 0.0032 | 0.00331 |
| Soil | OU-4 | EMT-08-29 | C72535 | 9/17/2009 | 0.0043 | 0.00446 | 0.00462 |
| Soil | OU-4 | EMT-08-30 | C72536 | 9/17/2009 | 0.00778 | 0.00778 | 0.00778 |
| **Lower Assessment Area** | | | | | | | |
| Sediment | OU-4 | ELA-02-61 | C10708 | 10/2/2009 | 0.0139 | 0.0141 | 0.0143 |
| Sediment | OU-4 | ELA-02-66 | C10713 | 10/2/2009 | 0.00167 | 0.00187 | 0.00207 |
| Soil | OU-4 | C7N-11 | C70516 | 6/21/2007 | 0.0057 | 0.00626 | 0.00682 |
| Soil | OU-4 | C7N-20 | C70531 | 6/20/2007 | 0.00163 | 0.00188 | 0.00213 |
| Soil | OU-4 | C7N-31 | C70548 | 6/20/2007 | 0.00322 | 0.00349 | 0.00376 |
| Soil | OU-4 | C7N-40 | C70562 | 6/26/2007 | 0.000578 | 0.000751 | 0.000924 |
| Soil | OU-4 | C7N-51 | C70579 | 6/21/2007 | 0.00743 | 0.00769 | 0.00795 |
| Soil | OU-4 | C7NF-03 | C72215 | 2/12/2009 | 0.00373 | 0.00422 | 0.00471 |
| Soil | OU-4 | C7NF-14 | C72237 | 2/17/2009 | 0.0113 | 0.0142 | 0.0171 |
| Soil | OU-4 | C7NF-17 | C72243 | 2/17/2009 | 0.0169 | 0.0195 | 0.0221 |
| Soil | OU-4 | C7NF-20 | C72249 | 2/11/2009 | 0.00266 | 0.00294 | 0.00322 |
| Soil | OU-4 | C7NF-20 | C72250 | 2/11/2009 | 0.00446 | 0.0048 | 0.00514 |
| Soil | OU-4 | C7S-08 | C70596 | 6/27/2007 | 0.0116 | 0.0126 | 0.0136 |
| Soil | OU-4 | C7S-17 | C70610 | 6/27/2007 | 0.00474 | 0.00529 | 0.00584 |
| Soil | OU-4 | C7S-28 | C70627 | 6/26/2007 | 0.00278 | 0.00361 | 0.00444 |
| Soil | OU-4 | C7S-37 | C70641 | 6/27/2007 | 0.121 | 0.122 | 0.123 |
| Soil | OU-4 | C7S-48 | C70659 | 6/28/2007 | 0.00211 | 0.00246 | 0.00281 |
| Soil | OU-4 | C7S-57 | C70673 | 6/28/2007 | 0.00139 | 0.00169 | 0.00199 |
| Soil | OU-4 | C7SF-13 | C72279 | 2/12/2009 | 0.00283 | 0.00306 | 0.00329 |
| Soil | OU-4 | C7SF-15 | C72283 | 2/12/2009 | 0.0027 | 0.00292 | 0.00314 |
| Soil | OU-4 | C8N-12 | C70692 | 6/26/2007 | 0.0284 | 0.0293 | 0.0302 |
| Soil | OU-4 | C8N-12 | C70693 | 6/26/2007 | 0.133 | 0.134 | 0.135 |
| Soil | OU-4 | C8N-19 | C70703 | 6/29/2007 | 0.0365 | 0.0371 | 0.0377 |
| Soil | OU-4 | C8S-12 | C70724 | 6/29/2007 | 0.0102 | 0.0109 | 0.0116 |
| Soil | OU-4 | C8S-19 | C70734 | 6/29/2007 | 0.0201 | 0.0211 | 0.0221 |
| Soil | OU-4 | C8S-19 | C70735 | 6/29/2007 | 0.018 | 0.0186 | 0.0192 |
| Soil | OU-4 | C9N-01 | C72295 | 2/16/2009 | 0.0116 | 0.0169 | 0.0222 |
| Soil | OU-4 | C9N-02 | C72298 | 2/16/2009 | 0.0863 | 0.0991 | 0.1119 |
| Soil | OU-4 | C9N-19 | C72352 | 2/9/2009 | 0.0134 | 0.0145 | 0.0156 |
| Soil | OU-4 | C9S-03 | C72364 | 2/17/2009 | 0.0121 | 0.0153 | 0.0185 |
| Soil | OU-4 | C9S-12 | C72391 | 2/11/2009 | 0.0104 | 0.0125 | 0.0146 |
| Soil | OU-4 | C9S-13 | C72394 | 2/11/2009 | 0.00799 | 0.00913 | 0.01027 |
| Soil | OU-4 | ELT-07-55 | C72515 | 9/18/2009 | 0.0389 | 0.0389 | 0.0389 |

**Table F-9. Background Screening Assessment for PCDD/PCDF TEQ in OU-4 Soil and Sediment**
**Anniston PCB Site, Anniston, Alabama**

| Sample Matrix | OU | Location ID | Sample Name | Date | PCDD/PCDF TEQ (Human/Mammal-NDs Excluded) (µg/kg) | PCDD/PCDF TEQ (Human/Mammal-NDs used at 1/2 DL) (µg/kg) | PCDD/PCDF TEQ (Human/Mammal-NDs used at 1 DL) (µg/kg) |
|---|---|---|---|---|---|---|---|
| **Reference** | | | | | | | |
| Sediment | OU-4 Ref | ECO-REF-01 | R10001 | 4/6/2009 | 0.00036 | 0.000659 | 0.000958 |
| Sediment | OU-4 Ref | ECO-REF-02 | R10002 | 4/6/2009 | 0.000653 | 0.00102 | 0.001387 |
| Sediment | OU-4 Ref | ECO-REF-03 | R10003 | 4/6/2009 | 0.000184 | 0.000723 | 0.001262 |

**Notes:**
All results presented in micrograms per kilogram (µg/kg) dry weight.
DL: detection limit
ND: nondetect
ID: identification
OU: operable unit
OU-4: Operable Unit 4
PCDD: polychlorinated dibenzodioxin
PCDF: polychlorinated dibenzofuran
TEQ: toxic equivalent
Gray shading indicates concentration exceeds range of soil background for PCDD/PCDF TEQ (up to 0.057 µg/kg dw, USEPA, 2004)

# FIGURES




**Legend**

TEQ Sample Locations
- Soil
- Sediment
- PCDD/PCDF Data Only
- DL-PCB TEQ Data Only

BSA with TEQ Data

Major Roadway

OU-3 Boundary

OU-1/OU-2 Downgradient Floodplain

OU-4 100-Year Floodplain

Choccolocco Creek

0 7,500 15,000 Feet

Graphic Scale

Acronym:
BSA: Biological Sample Area
DL-PCB: dioxin-like polychlorinated biphenyl
OU: operable unit
PCB: polychlorinated biphenyl
PCDD : polychlorinated dibenzodioxins
TEQ : toxic equivalent

Note:
1. Locations are for samples where PCDD/PCDF and/or DL-PCB congener data were collected.

Anniston PCB Site
Anniston, Alabama

**Baseline Ecological Risk Assessment for OU-4**

# TEQ Sample Locations

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Figure
**F-1**

City: SYR Div/Group: SWG Created By: K. Ives Last Saved By: Kives
AnnistonAL
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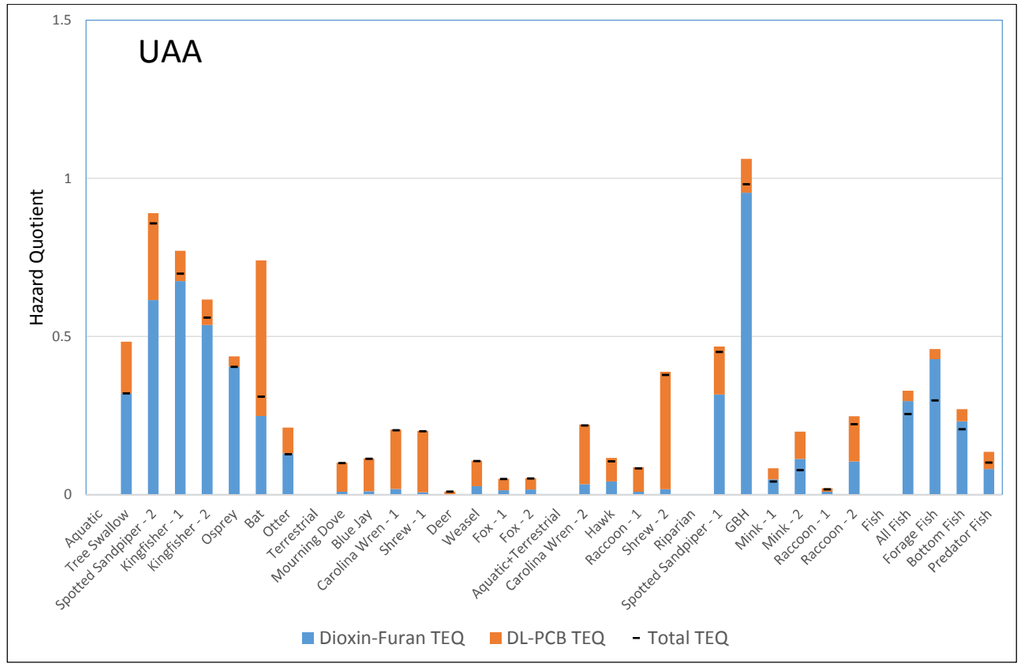


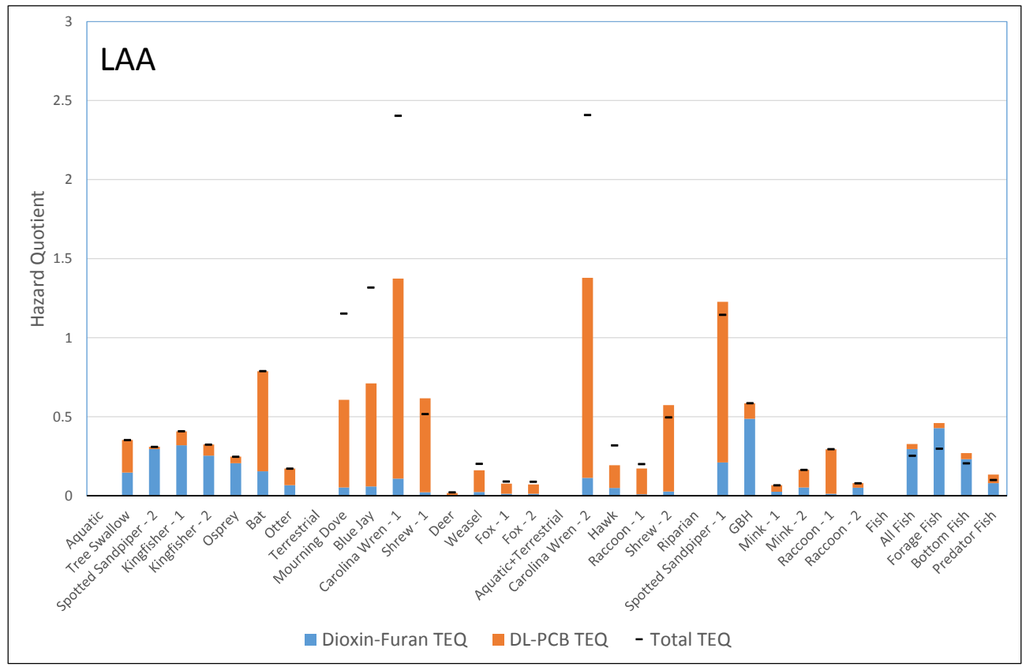


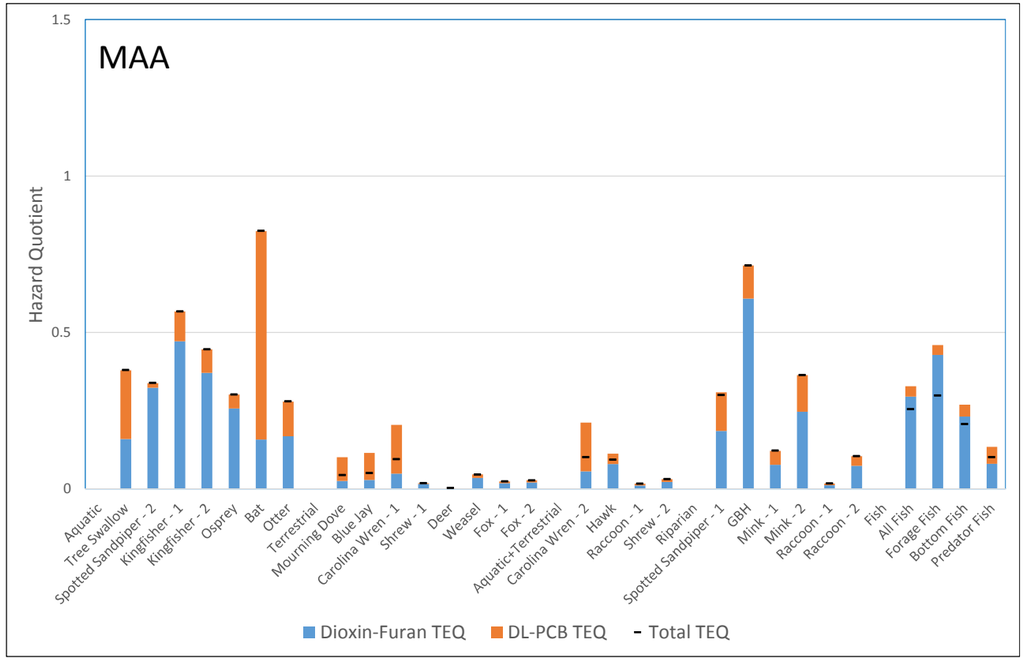


**Notes:**
DL-PCBs: dioxin-like polychlorinated biphenyls
LAA: lower assessment area
MAA: middle assessment area
TEQ: toxic equivalent
UAA: upper assessment area

Anniston PCB Site
Anniston, Alabama

**Baseline Ecological Risk Assessment for OU-4**

**Summary of TEQ Hazard Quotients**

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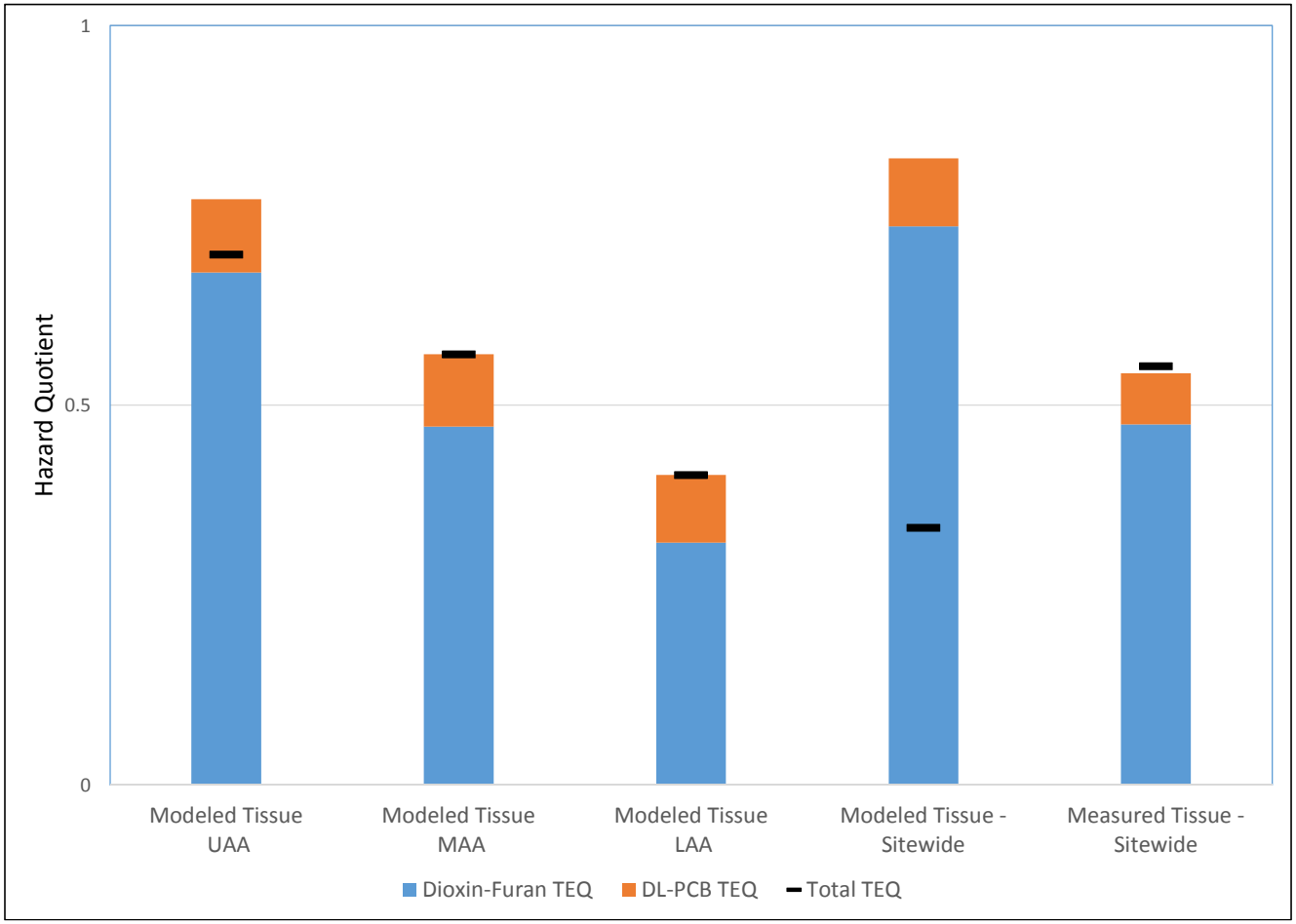
Ingenuity Productivity Performance

FIGURE
**F-2**




**Notes:**
Modeled AA HQs and Sitewide PCDD/PCDF HQ based on Maximum EPCs
Modeled Sitewide DL-PCB HQs and Total HQs based on 95UCL EPCs
Measured Sitewide HQs based on 95UCL EPCs
AA: assessment area
DL-PCBs: dioxin-like polychlorinated biphenyls
EPC: exposure point concentration
HQ: hazard quotient
LAA: lower assessment area
MAA: middle assessment area
PCDD: polychlorinated dibenzodioxin
PCDF: polychlorinated dibenzofuran
UAA: upper assessment area
UCL: upper confidence limit

Anniston PCB Site
Anniston, Alabama

**Baseline Ecological Risk Assessment for OU-4**

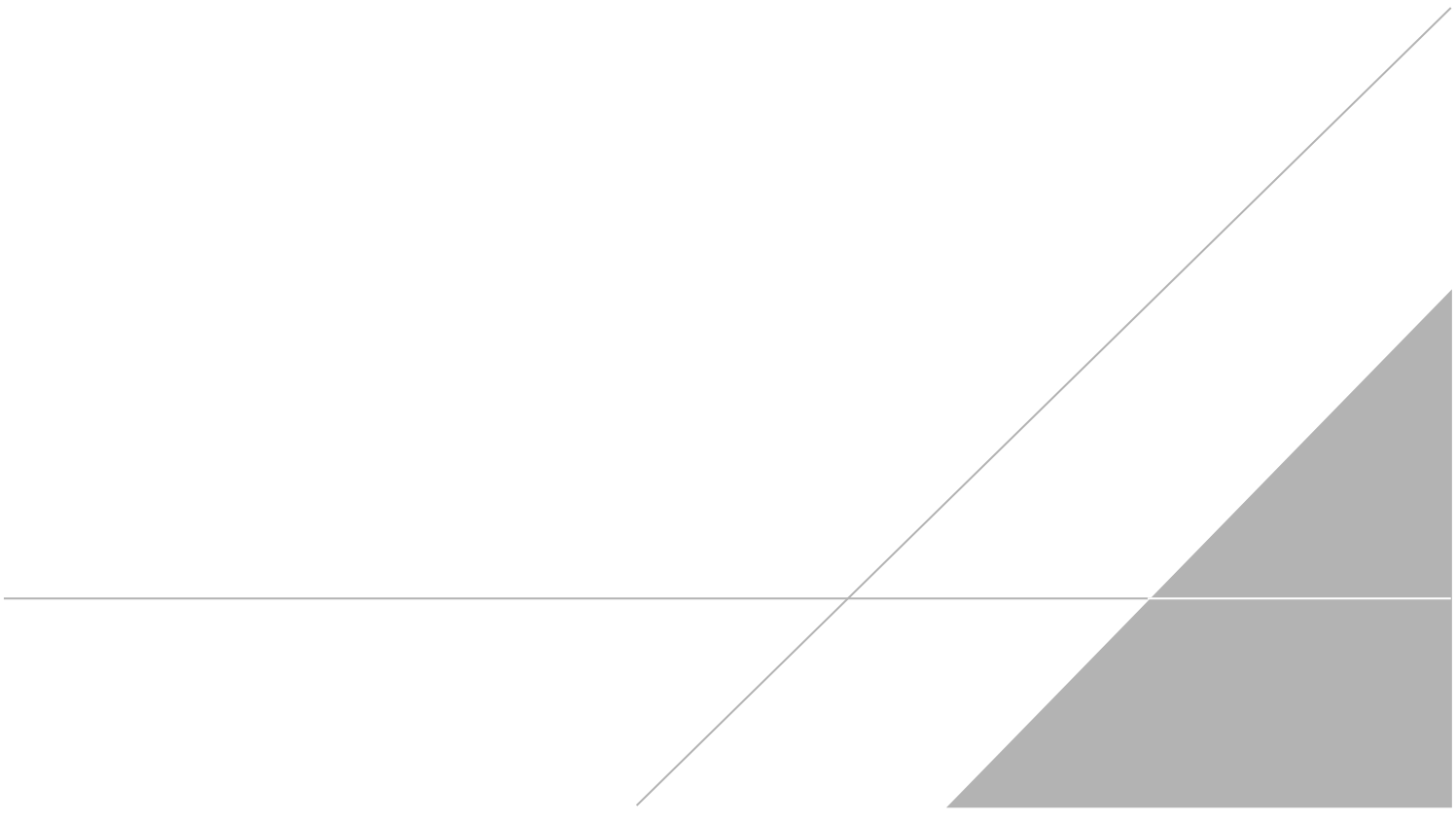
**Comparison of Modeled versus Measured Kingfisher TEQ Hazard Quotients**

Solutia

FIGURE
**F-3**

# ATTACHMENT F1

## Bioaccumulation Factor/Model Development for PCDDs/PCDFs and DL-PCBs



ARCADIS Design & Consultancy for natural and built assets

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# BASELINE ECOLOGICAL RISK ASSESSMENT FOR OPERABLE UNIT 4

## Attachment F1 – Bioaccumulation Factor/ Model Development for PCDDs/PCDFs and DL-PCBs

Anniston PCB Site, Anniston, Alabama

October 2016

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Table F1-6 Summary of Site-Specific BAFs for Dioxin/Furan and Dioxin-like PCB Congeners

# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| AA | assessment area |
| Arcadis | Arcadis U.S., Inc. |
| BAF | bioaccumulation factor |
| $BAF_i$ | individual tissue sample bioaccumulation factor |
| BERA | Baseline Ecological Risk Assessment |
| BSA | biological sampling area |
| BSAF | biota sediment accumulation factor |
| BSoAF | biota to soil accumulation factor |
| COPC | constituent of potential concern |
| DL-PCB | dioxin-like polychlorinated biphenyl |
| kg | kilogram |
| KM | Kaplan-Meier |
| mg/kg | milligram per kilogram |
| OU | operable unit |
| PCB | polychlorinated biphenyl |
| PCDD | polychlorinated dibenzo-*p*-dioxin |
| PCDF | polychlorinated dibenzofuran |
| TEQ | toxic equivalent |
| USEPA | United States Environmental Protection Agency |

# 1 INTRODUCTION

This attachment to Appendix F of the *Baseline Ecological Risk Assessment for Operable Unit 4* (OU-4 BERA) of the Anniston polychlorinated biphenyl (PCB) Site describes the development of bioaccumulation factors (BAFs) for polychlorinated dibenzo-*p*-dioxin and polychlorinated dibenzofurans (PCDDs/PCDFs) and dioxin-like PCB (DL-PCB) congeners used in the exposure dose calculations to calculate hazard quotients for ecological receptors at OU-4. The OU-4 BERA was conducted to evaluate the aquatic and terrestrial exposure pathways for ecological receptors and potential risks associated with identified constituents of potential concern (COPCs) (PCBs, mercury, barium, chromium, cobalt, lead, and vanadium) within OU-4. PCDDs/PCDFs and DL-PCBs were also evaluated at the request of the United States Environmental Protection Agency (USEPA). Dietary exposure to a range of feeding guilds of birds and mammals was evaluated based on exposure from soil, sediment, and contaminated prey tissues. To evaluate the dietary exposure pathways to aquatic and terrestrial feeding receptors, COPC concentrations in tissues of the prey for the identified receptors were modeled.

The prey items for the representative aquatic receptors selected for evaluation in the OU-4 BERA are aquatic plants, benthic invertebrates, oligochaetes, emergent insects, crayfish, molluscs, frogs, snakes, and fish (represented by forage fish, predator fish, and/or all fish). The prey items for the representative terrestrial receptors selected for evaluation in the OU-4 BERA are terrestrial plants, terrestrial invertebrates (including earthworms, terrestrial- and riparian-feeding spiders, and insects), and small mammals. In addition, some receptors were exposed to a mixed diet of aquatic and terrestrial prey. Section 4 and Appendix B of the OU-4 BERA provide additional details regarding dietary components of the wildlife receptors.

Biotic tissue data and sediment and floodplain soil data were collected as a part of Phase 2 field sampling in 2009. These data were collected primarily to support the evaluation of potential risk to the identified ecological receptors from dietary exposure in OU-4. Details of the approach for this sampling are provided in the *OU-4 Phase 2 Field Sampling Plan* (Arcadis U.S., Inc. [Arcadis] 2009). Additionally, results of Phase I sampling conducted in 2007 at locations near the 2009 Phase 2 tissue and sediment/soil sampling locations are included in the BAF dataset at the request of USEPA (2016). The data collected and used herein are described in Section 2.1 below. As noted below, the datasets available for PCDD/PCDF and DL-PCB BAF development are limited in size.

The bioaccumulation model represents the relationship between the abiotic media (in this case, creek sediment, floodplain soil, and riparian soil) and the measured prey tissue concentration. Although regression analysis is the preferred method to derive uptake relationships predictive of prey tissue concentrations, the PCDD/PCDF and DL-PCB datasets are insufficient for these analyses.

Therefore, prey tissue concentrations were estimated using BAFs that relate concentrations in abiotic media to tissue concentrations through a simple ratio. As a convention herein, ratios based on wet weight or dry weight tissue and abiotic media concentrations are referred to as BAFs. Ratios based on lipid-normalized tissue and organic carbon-normalized sediment are referred to as biota sediment accumulation factors (BSAFs).

As an example, a BAF can be calculated as follows:

Equation 1: $BAF_{insect} = C_{insect} / PCB_s$

where:

$C_{insect}$ Concentration of PCB in insect tissue (milligrams of PCB per kilogram tissue; mg/kg $_{tissue}$)

$PCB_s$ Concentration of PCB in sediment or soil (mg of PCB per kg of sediment or soil; mg/kg $_{sediment\ or\ soil}$)

$BAF_{insect}$ Bioaccumulation factor from sediment-to-insect (kg $_{sediment\ or\ soil}$/kg $_{tissue}$)

When BAFs are used, the predictability of the selected BAF is acknowledged to be uncertain due to the lack of relationship between the soil/sediment and tissue data in a regression analysis.

Congener-specific BAFs were developed to model tissue concentrations of PCDD/PCDF toxic equivalent (TEQ), DL-PCB TEQ, and total TEQ (PCDDs/PCDFs + DL PCBs). The approach for development of BAFs for PCDD/PCDF and DL-PCB congeners is similar to the approach used to develop BAFs for the remaining COPCs, as described in Appendix B. BAF development for PCDD/PCDF and DL-PCB congeners is described in more detail below.

The following sections describe the overall uptake development approach (Section 2) and available data and analyses used to develop PCDD/PCDF and DL-PCB BAFs for aquatic and terrestrial species (Section 3).

# 2 OVERVIEW OF UPTAKE MODEL DERIVATION

## 2.1 Data Use

Three assessment areas (AAs; upper, middle, and lower) were identified within OU-4 based on habitat surveys conducted in a Phase 1 Ecological Survey (Arcadis BBL 2007). Three aquatic biological sampling areas (BSAs) and nine terrestrial BSAs were identified within each of the three AAs for a total of nine aquatic BSAs and 27 terrestrial BSAs within OU-4 that were sampled as part of the 2009 Phase 2 sampling in support of BAF development. Soil and sediment sampling locations are presented on Appendix F Figure F-1. Tissue samples were collected throughout each of the terrestrial and aquatic BSAs (indicated by green hatching on the figure) and were composited. Samples were also collected from three aquatic and three terrestrial reference locations. The terrestrial and aquatic BSAs are also presented in Appendix B Figures B-1a through B-1j.

Because the data are not co-located, soil/sediment samples from the Phase I (2007) and Phase 2 (2009) investigations from locations within or nearby each BSA were grouped and evaluated with the tissue data from the same BSA. Older abiotic media data collected prior to 2007 were not included in the BAF dataset, as surface conditions in the creek, riparian areas, and floodplain may have been altered by physical processes over time. These data groupings were identified by USEPA (2016) for use in BAF development, and are summarized in Table F1-1 for sediment and Table F1-2 for soil. As indicated in the tables, only a subset of the samples was analyzed for PCDDs/PCDFs and DL-PCBs.

The BAF datasets were insufficient for regression analysis. Site-wide median BAFs were calculated for each PCDD/PCDF and DL-PCB congener, as described below.

## 2.2 Site-wide Median BAF Calculation

For the site-wide median BAFs, all soil/sediment data, including detected and non-detected results, for the BSAs were included in the evaluation. The mean abiotic media concentration was calculated for each BSA using Kaplan-Meier (KM) statistics to account for any non-detected results. Only detected concentrations in tissue were included in the BAF calculations. BAFs were calculated for each OU-4 BSA using the following approach:

1. Calculate individual tissue sample BAFs ($BAF_i$) using KM mean soil/sediment concentration for the BSA, individual tissue sample concentration, and Equation 1.
2. Calculate median of the $BAF_i$ for all individual samples taken from OU-4, which resulted in a congener-specific site-wide median BAF used to model uptake. Reference BSAs are not included in the median BAF calculation.
3. If data were not sufficient to calculate a site-wide median BAF:
    a. If a COPC was detected in OU-4 tissue, but data for soil/sediment in the same BSA were lacking, the site-wide average ratio BAF was calculated by dividing the site-wide average detected tissue concentration by the average KM mean concentrations for the BSAs.

b. If a congener was never detected in OU-4 tissue, no BAF was selected. The congener was excluded from the TEQ calculations. As a result, exposure to PCDDs/PCDFs and DL-PCBs was evaluated based only on congeners detected in OU-4 prey tissue.

## 2.3 Literature Uptake Relationships

PCDD/PCDF tissue data were not available for terrestrial insects (grasshoppers/crickets), spiders/detritivores, and earthworms. For these receptors, uptake of PCDD/PCDF and DL-PCB congeners was modeled using a literature uptake factor.

For earthworms, BAFs were based on data from Fagervold et al. (2010). The biota to soil accumulation factors (BSoAFs) for PCDD/PCDF congener uptake by earthworms from the study by Fagervold et al. (2010) were used. In the Fagervold et al. (2010) study, BSoAF values (kg organic carbon/kg lipid) for the earthworm *Eisenia foetida* in untreated soil ranged from 0.02 for some of the higher chlorinated congeners to 0.17 for tetrachlorodibenzo-p-dioxin. The BSoAF values were converted to BAFs based on a dry weight basis using organic carbon content reported by Fagervold et al. (2010) and lipid (2.3 percent) and solids content (32 percent) for OU-4 earthworms. The BAFs for PCDD/PCDF congener uptake by earthworms from the Fagervold et al. (2010) study were used as the BAFs for earthworms in the OU-4 BERA (Table F1-3). The earthworm BAFs were also selected to estimate uptake into spiders and terrestrial insects, as site data for these prey tissues are lacking.

For the DL-PCB congeners, soil and sediment data from the BSAs with tissue data were not available, and literature uptake data are generally lacking. The median of the PCDD/PCDF congener BAFs from the Fagervold et al. (2010) study was selected to estimate uptake into earthworms for all DL-PCB congeners (Table F1-3), such that earthworm BAFs for both PCDD/PCDFs and DL-PCBs were based on literature uptake values.

# 3 BAFS FOR PCDD/PCDF AND DL-PCB CONGENERS

Median BAFs were calculated using the approach described in Section 2.2. PCDD/PCDF and DL-PCB congeners were not detected in all soil and sediment samples; therefore, the abiotic media concentration was the KM mean concentration for the BSA. Because many tissues had congener concentrations below the laboratory reporting limit and because some BSAs did not have data for both abiotic and biotic samples, it was not possible to calculate median BAFs for many congeners and tissues. The grouped tissue and soil/sediment data and resulting site-wide median BAFs are calculated in Tables F1-4a and b for aquatic receptors and Table F1-5 for terrestrial receptors. When congeners were detected in tissue but soil/sediment data were not available for the same BSA (i.e., congener-specific median BAF could not be calculated), a congener-specific site-wide average BAF was calculated by dividing the site-wide average detected tissue concentration by the site-wide average KM mean soil or sediment concentrations for the BSAs. When congeners were never detected in tissue, no BAF was selected. The site-specific BAF values and corresponding calculation type (congener-specific site-wide median BAF or congener-specific average ratio BAF) are summarized in Table F1-6.

For aquatic oligochaetes, tissue data for PCDDs/PCDFs and DL-PCBs are not available. Consistent with the approach in the OU-4 BERA for non-mercury metals, BAFs for aquatic oligochaetes were based on benthic invertebrate (Odonata) tissue.

For earthworms, spiders, and terrestrial insects, BAFs from the Fagervold et al. (2010) study were used (Table F1-3).

The selected BAFs were used along with avian, mammalian, and fish toxicity equivalency factors from the World Health Organization (Van den Berg et al. 1998 and 2006, as cited in USEPA 2008) to estimate TEQ concentrations in prey tissues. PCDD/PCDF TEQ, DL-PCB TEQ, and total TEQ concentrations in prey tissues, including aquatic plants, aquatic emergent and flying insects, reptiles, amphibians, fish, aquatic benthic invertebrates (Odonata larvae), crayfish, molluscs, small mammals, and terrestrial plants, were calculated.

# 4 REFERENCES

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# TABLES

**Table F1-1. Sediment Sample Groupings for the Bioaccumulation Factor Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | EU/ Reach | BSA | Location ID | Date | Sample Type | Sediment Class | Analyses | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | PCB Aroclors | Mercury | PCB Congeners[1] and PCB Homologues | Ba, Cr, Co, Pb, V | Dioxins/ Furans | Grain Size | TOC by Lloyd Kahn |
| Upper | C2 | EUA-01 | EUA-01-19 | 9/30/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EUA-01-20 | 9/30/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EUA-01-21 | 9/30/2009 | DISCRETE | Gravel | 1 | 1 | | | | 1 | 1 |
| | | | EUA-01-22 | 9/30/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EUA-01-23 | 9/30/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EUA-01-24 | 9/30/2009 | DISCRETE | Fine | 1 | 1 | 1 | | 1 | 1 | 1 |
| | C3 | EUA-02 | EUA-02-43 | 10/1/2009 | DISCRETE | Fine | 2 | 2 | 2 | | 2 | 2 | 2 |
| | | | EUA-02-44 | 10/1/2009 | DISCRETE | Fine | 1 | 1 | | 1 | | 1 | 1 |
| | | | EUA-02-45 | 10/1/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | EUA-02-46 | 10/1/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | EUA-02-47 | 10/1/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | EUA-02-48 | 10/1/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | C4 | EUA-03 | EUA-03-25 | 9/30/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EUA-03-26 | 9/30/2009 | DISCRETE | Gravel | 1 | 1 | | | | 1 | 1 |
| | | | EUA-03-27 | 9/30/2009 | DISCRETE | Gravel | 1 | 1 | | | | 1 | 1 |
| | | | EUA-03-28 | 9/30/2009 | DISCRETE | Gravel | 1 | 1 | | | | 1 | 1 |
| | | | EUA-03-29 | 9/30/2009 | DISCRETE | Fine | 1 | 1 | | 1 | | 1 | 1 |
| | | | EUA-03-30 | 9/30/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| Middle | C5 | EMA-01 | EMA-01-01 | 9/29/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EMA-01-02 | 9/29/2009 | DISCRETE | Coarse | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | EMA-01-03 | 9/29/2009 | DISCRETE | Coarse | 2 | 2 | | | | 2 | 2 |
| | | | EMA-01-04 | 9/29/2009 | DISCRETE | Coarse | 1 | 1 | | 1 | | 1 | 1 |
| | | | EMA-01-05 | 9/29/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | EMA-01-06 | 9/29/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | HHFL-05 | 4/4/2009 | COMPOSITE | Coarse | 2 | 2 | | 2 | | 2 | 2 |
| | | EMA-02 | EMA-02-07 | 9/29/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | EMA-02-08 | 9/29/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EMA-02-09 | 9/29/2009 | DISCRETE | Coarse | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | EMA-02-10 | 9/29/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | EMA-02-11 | 9/29/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | EMA-02-12 | 9/29/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | EMA-03 | EMA-03-31 | 9/30/2009 | DISCRETE | Coarse | 1 | 1 | | 1 | | 1 | 1 |
| | | | EMA-03-32 | 9/30/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EMA-03-33 | 9/30/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EMA-03-34 | 9/30/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | EMA-03-35 | 9/30/2009 | DISCRETE | Fine | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | EMA-03-36 | 9/30/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |

**Table F1-1. Sediment Sample Groupings for the Bioaccumulation Factor Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | EU/ Reach | BSA | Location ID | Date | Sample Type | Sediment Class | Analyses | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | PCB Aroclors | Mercury | PCB Congeners[1] and PCB Homologues | Ba, Cr, Co, Pb, V | Dioxins/ Furans | Grain Size | TOC by Lloyd Kahn |
| Lower | C7 | ELA-01 | ELA-01-55 | 10/2/2009 | DISCRETE | Coarse | 2 | 2 | | 2 | | 2 | 2 |
| | | | ELA-01-56 | 10/2/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ELA-01-57 | 10/2/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ELA-01-58 | 10/2/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ELA-01-59 | 10/2/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ELA-01-60 | 10/2/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | HHFL-04 | 5/4/2009 | COMPOSITE | Coarse | 1 | 1 | | 1 | | 1 | 1 |
| | | ELA-02 | ELA-02-61 | 10/2/2009 | DISCRETE | Fine | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | ELA-02-62 | 10/2/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ELA-02-63 | 10/2/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ELA-02-64 | 10/2/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ELA-02-65 | 10/2/2009 | DISCRETE | Coarse | 1 | 1 | | 1 | | 1 | 1 |
| | | | ELA-02-66 | 10/2/2009 | DISCRETE | Fine | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | ELA-03 | ELA-03-67 | 10/2/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ELA-03-68 | 10/2/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ELA-03-69 | 10/2/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ELA-03-70 | 10/2/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ELA-03-71 | 10/2/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ELA-03-72 | 10/2/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |

**Table F1-1. Sediment Sample Groupings for the Bioaccumulation Factor Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | EU/ Reach | BSA | Location ID | Date | Sample Type | Sediment Class | Analyses | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | PCB Aroclors | Mercury | PCB Congeners[1] and PCB Homologues | Ba, Cr, Co, Pb, V | Dioxins/ Furans | Grain Size | TOC by Lloyd Kahn |
| Reference | REF | ERA-01 | ECO-REF-01 | 4/6/2009 | DISCRETE | Fine | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | ERA-01-49 | 10/1/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ERA-01-50 | 10/1/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ERA-01-51 | 10/1/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ERA-01-52 | 10/1/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ERA-01-53 | 10/1/2009 | DISCRETE | Coarse | 2 | 2 | | | | 2 | 2 |
| | | | ERA-01-54 | 10/1/2009 | DISCRETE | Fine | 1 | 1 | | 1 | | 1 | 1 |
| | | ERA-02 | ECO-REF-02 | 4/6/2009 | DISCRETE | Fine | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | ERA-02-13 | 9/29/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ERA-02-14 | 9/29/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ERA-02-15 | 9/29/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ERA-02-16 | 9/29/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ERA-02-17 | 9/29/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ERA-02-18 | 9/29/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | ERA-03 | ECO-REF-03 | 4/6/2009 | DISCRETE | Coarse | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | ERA-03-37 | 10/1/2009 | DISCRETE | Gravel | 1 | 1 | | | | 1 | 1 |
| | | | ERA-03-38 | 10/1/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |
| | | | ERA-03-39 | 10/1/2009 | DISCRETE | Coarse | 1 | 1 | | 1 | | 1 | 1 |
| | | | ERA-03-40 | 10/1/2009 | DISCRETE | Coarse | 1 | 1 | | | | 1 | 1 |
| | | | ERA-03-41 | 10/1/2009 | DISCRETE | Gravel | 1 | 1 | | | | 1 | 1 |
| | | | ERA-03-42 | 10/1/2009 | DISCRETE | Fine | 1 | 1 | | | | 1 | 1 |

**Notes:**

[1] Congeners analyzed: BZ77, BZ81, BZ105, BZ114, BZ118, BZ123, BZ26, BZ153, BZ156, BZ157, BZ167, BZ169, BZ189

Ba: barium

BSA: biological sampling area

Co: cobalt

Cr: chromium

EU: exposure unit

Pb: lead

PCB: polychlorinated biphenyl

TOC: total organic carbon

V: vanadium

**Table F1-2. Soil Sample Groupings for the Bioaccumulation Factor Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | EU | BSA | Location ID | Date | Analyses | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | PCB Aroclors | Mercury | PCB Congeners[1] and PCB Homologues | Cr, Pb, V | Dioxins/ Furans | Grain Size | TOC by Lloyd Kahn |
| Upper | C2B | EUT-01 | C2N-18 | 2/19/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-01-09 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-01-10 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | EUT-02 | C2N-22 | 2/19/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C2N-26 | 2/19/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-02-11 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-02-12 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | EUT-03 | C2N-21 | 2/19/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | | | EUT-03-13 | 9/16/2009 | 2 | 2 | | | | 2 | 2 |
| | | | EUT-03-14 | 9/16/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | C3N | EUT-04 | C3N-03 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-04-07 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-04-08 | 9/16/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | EUT-05 | C3N-08 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C3N-09 | 3/31/2009 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | C3N-10 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C3NF-05 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C3NF-07 | 3/31/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | C3NF-08 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C3NF-10 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C3NF-11 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-05-05 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-05-06 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | EUT-06 | C3N-14 | 3/31/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-06-03 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-06-04 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | EUT-07 | C3NF-17 | 4/1/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-07-01 | 9/16/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | EUT-07-02 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | C4N | EUT-08 | C3N-22 | 3/26/2009 | 2 | 2 | | | | 2 | 2 |
| | | EUT-08 | C3N-23 | 3/26/2009 | 1 | 1 | | | | 1 | 1 |
| | C4S | EUT-08 | C3S-27 | 3/25/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EUT-08-49 | 9/18/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | | | EUT-08-50 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | EUT-09 | C4S-04 | 3/16/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | | | EUT-09-51 | 9/18/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | EUT-09-51b | 9/18/2009 | 1 | 1 | | | | 1 | 1 |

**Table F1-2. Soil Sample Groupings for the Bioaccumulation Factor Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | EU | BSA | Location ID | Date | Analyses | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | PCB Aroclors | Mercury | PCB Congeners[1] and PCB Homologues | Cr, Pb, V | Dioxins/ Furans | Grain Size | TOC by Lloyd Kahn |
| Middle | C5N | EMT-01 | C5N-19 | 3/5/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-01-25 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-01-26 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | EMT-02 | C5N-24 | 2/24/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-02-17 | 9/16/2009 | 2 | 2 | | | | 2 | 2 |
| | | | EMT-02-18 | 9/16/2009 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | EMT-03 | C5N-26 | 2/24/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C5N-27 | 2/24/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-03-15 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-03-16 | 9/16/2009 | 1 | 1 | | | | 1 | 1 |
| | | EMT-04 | C5N-29 | 2/24/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C5NF-10 | 2/24/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-04-19 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-04-20 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | EMT-05 | C5N-30 | 2/24/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-05-21 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-05-22 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | EMT-06 | C5N-31 | 2/24/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-06-23 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-06-24 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | C5S | EMT-07 | C5S-34 | 2/22/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C5S-36 | 2/22/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | C5S-37 | 2/22/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | | | EMT-07-27 | 9/17/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | | | EMT-07-28 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | EMT-08 | C5S-40 | 2/22/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-08-29 | 9/17/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | EMT-08-30 | 9/17/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | EMT-09 | C5S-44 | 2/23/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C5S-45 | 2/22/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-09-31 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | EMT-09-32 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |

**Table F1-2. Soil Sample Groupings for the Bioaccumulation Factor Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | EU | BSA | Location ID | Date | Analyses | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | PCB Aroclors | Mercury | PCB Congeners[1] and PCB Homologues | Cr, Pb, V | Dioxins/ Furans | Grain Size | TOC by Lloyd Kahn |
| Lower | C7N | ELT-08 | C7N-28 | 6/20/2007 | 1 | | | | | 1 | 1 |
| | | | ELT-08-33 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ELT-08-34 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | ELT-09 | C7N-33 | 6/20/2007 | 1 | | | | | 1 | 1 |
| | | | C7N-34 | 6/20/2007 | 1 | | | | | 1 | 1 |
| | | | ELT-09-35 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ELT-09-36 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | C7S | ELT-01 | C7S-01 | 6/28/2007 | 1 | | | | | 1 | 1 |
| | | | ELT-01-39 | 9/17/2009 | 2 | 2 | | 2 | | 2 | 2 |
| | | | ELT-01-40 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | ELT-02 | ELT-02-38 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | C7S-03 | 6/28/2007 | 2 | | | | | 2 | 2 |
| | | | ELT-02-37 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | ELT-03 | C7S-11 | 6/27/2007 | 1 | | | | | 1 | 1 |
| | | | ELT-03-41 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ELT-03-42 | 9/17/2009 | 1 | 1 | | | | 1 | 1 |
| | | ELT-04 | C7S-12 | 6/27/2007 | 1 | | | | | 1 | 1 |
| | | | ELT-04-43 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ELT-04-44 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | ELT-05 | C7S-14 | 6/27/2007 | 1 | | | | | 1 | 1 |
| | | | ELT-05-45 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ELT-05-46 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | ELT-06 | ELT-06-47 | 9/18/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | | | ELT-06-48 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | ELT-07 | C7S-22 | 6/27/2007 | 1 | | | | | 1 | 1 |
| | | | ELT-07-54 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ELT-07-55 | 9/18/2009 | 1 | 1 | 1 | | 1 | 1 | 1 |

**Table F1-2. Soil Sample Groupings for the Bioaccumulation Factor Calculations**
**Anniston PCB Site, Anniston, Alabama**

| Assessment Area | EU | BSA | Location ID | Date | Analyses | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | PCB Aroclors | Mercury | PCB Congeners[1] and PCB Homologues | Cr, Pb, V | Dioxins/ Furans | Grain Size | TOC by Lloyd Kahn |
| Reference | REF | ERT-01-MF | ERT-01-62 | 9/23/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-01-63 | 9/23/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-01-52 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-01-53 | 9/18/2009 | 1 | 1 | | | | 1 | 1 |
| | | ERT-02-FF | ERT-02-60 | 9/22/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-02-56 | 9/22/2009 | 2 | 2 | | | | 2 | 2 |
| | | | ERT-02-57 | 9/22/2009 | 1 | 1 | | 1 | | 1 | 1 |
| | | ERT-02-SF | ERT-02-58 | 9/22/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-02-59 | 9/22/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-02-61 | 9/22/2009 | 1 | 1 | | | | 1 | 1 |
| | | ERT-03-FF | ERT-03-64 | 9/28/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-03-65 | 9/28/2009 | 1 | 1 | | | | 1 | 1 |
| | | ERT-03-SF | ERT-03-66 | 9/28/2009 | 1 | 1 | | | | 1 | 1 |
| | | | ERT-03-67 | 9/28/2009 | 1 | 1 | | | | 1 | 1 |

**Notes:**

[1] Congeners analyzed: BZ77, BZ81, BZ105, BZ114, BZ118, BZ123, BZ26, BZ153, BZ156, BZ157, BZ167, BZ169, BZ189

BSA: biological sampling area

Cr: chromium

EU: exposure unit

Pb: lead

PCB: polychlorinated biphenyl

TOC: total organic carbon

V: vanadium

**Table F1-3. Earthworm BAFs for Dioxin/Furan and Dioxin-like PCB Congeners**
**Anniston PCB Site, Anniston, Alabama**

| | Test Soils | | BSAF (kg OC/kg lipid) | Test Soils | | BAF [a] (kg dw/kg dw) | |
|---|---|---|---|---|---|---|---|
| | SW-20 | SW-265 | | SW-20 | SW-265 | | |
| TOC (%) | 0.38 | 5.6 | | 0.38 | 5.6 | | |
| **Dioxins** | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 0.17 | 0.17 | 0.17 | 0.329 | 0.02234 | 0.176 | b |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 0 | 0 | 0 | 0 | 0 | 0.0 | b |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 0 | 0 | 0 | 0 | 0 | 0.0 | b |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 0 | 0.02 | 0.01 | 0 | 0.00263 | 0.0013 | b |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 0 | 0 | 0 | 0 | 0 | 0.0 | b |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 0.02 | 0.02 | 0.02 | 0.0387 | 0.00263 | 0.0207 | b |
| Octachlorodibenzo-p-dioxin | 0.025 | 0.02 | 0.0225 | 0.0484 | 0.00263 | 0.0255 | b |
| **Furans** | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 0.1 | 0.110 | 0.105 | 0.194 | 0.01446 | 0.104 | b |
| 1,2,3,7,8-Pentachlorodibenzofuran | 0.075 | 0.060 | 0.0675 | 0.145 | 0.00789 | 0.0766 | b |
| 2,3,4,7,8-Pentachlorodibenzofuran | 0.055 | 0.040 | 0.0475 | 0.107 | 0.00526 | 0.0559 | b |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 0.045 | 0.040 | 0.0425 | 0.0872 | 0.00526 | 0.0462 | b |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 0.060 | 0.040 | 0.05 | 0.12 | 0.00526 | 0.0607 | b |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 0.095 | 0 | 0.0475 | 0.18 | 0 | 0.0920 | b |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 0.030 | 0.030 | 0.03 | 0.0581 | 0.00394 | 0.0310 | b |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 0.030 | 0.035 | 0.0325 | 0.0581 | 0.0046 | 0.0314 | b |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 0.030 | 0 | 0.015 | 0.0581 | 0 | 0.0291 | b |
| Octachlorodibenzofuran | 0.025 | 0.020 | 0.0225 | 0.0484 | 0.00263 | 0.0255 | b |
| **Non-ortho PCBs** | | | | | | | |
| 3,3',4,4'-TCB (77) | NA | NA | NA | NA | NA | 0.0310 | c |
| 3,4,4',5-TCB (81) | NA | NA | NA | NA | NA | 0.0310 | c |
| 3,3',4,4',5-PeCB (126) | NA | NA | NA | NA | NA | 0.0310 | c |
| 3,3',4,4',5,5'-HxCB (169) | NA | NA | NA | NA | NA | 0.0310 | c |
| **Mono-ortho PCBs** | | | | | | | |
| 2,3,3',4,4'-PeCB (105) | NA | NA | NA | NA | NA | 0.0310 | c |
| 2,3,4,4',5-PeCB (114) | NA | NA | NA | NA | NA | 0.0310 | c |
| 2,3',4,4',5-PeCB (118) | NA | NA | NA | NA | NA | 0.0310 | c |
| 2',3,4,4',5-PeCB (123) | NA | NA | NA | NA | NA | 0.0310 | c |
| 2,3,3',4,4',5-HxCB (156) | NA | NA | NA | NA | NA | 0.0310 | c |
| 2,3,3',4,4',5'-HxCB (157) | NA | NA | NA | NA | NA | 0.0310 | c |
| 2,3',4,4',5,5'-HxCB (167) | NA | NA | NA | NA | NA | 0.0310 | c |
| 2,3,3',4,4',5,5'-HeCB (189) | NA | NA | NA | NA | NA | 0.0310 | c |
| | | | | | | | |
| 2,2',4,4',5,5'-HxCB (153) | NA | NA | NA | NA | NA | 0.0310 | c |

**Notes:**
Data from Fagervold et al. (2010)
a. BAF calculated from BSAF assuming lipid content (2.3%) and total solids content (32%) from OU-4 earthworms.
b. average of available congener-specific BAFs
c. median of available polychlorinated dibenzodioxin/polychlorinated dibenzofuran BAFs
%: percent
BAF: bioaccumulation factor
BSAF: biota-soil accumulation factor
HxCB: hexachlorobiphenyl
NA: not available
kg dw/kg dw: kilogram dry weight per kilogram dry weight
kg OC/kg lipid: kilogram organic carbon per kilogram lipid
PeCB: pentachlorobiphenyl
TCB: tetrachlorobiphenyl
TOC: total organic carbon

**Table F1-4a. PCDD/PCDF and DL-PCB BAFs for Aquatic Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Aquatic Plants | | | Benthic Invertebrates | | | Crayfish | | | Emergent Insects | | | Bottom Fish | | | Forage Fish | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **1,2,3,4,6,7,8-HpCDD** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 21.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 3.86E+01 | 1.82E+00 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | 21.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | 36.59 | EMA-02-EM1 | 1.21E+01 | 3.30E-01 | EMA-01-BM1 | 2.65E+01 | 7.25E-01 | EMA-03-CF1 | 5.37E+00 | 1.47E-01 | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | 36.59 | EMA-02-EM2 | 1.68E+01 | 4.60E-01 | EMA-02-BM1 | 2.48E+01 | 6.78E-01 | EMA-03-CF3 | 2.69E+00 | 7.36E-02 | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | 63.53 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 4.62E+02 | 7.28E+00 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | 63.53 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | 63.53 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **3.95E-01** | | | **7.01E-01** | | | **1.10E-01** | | | **4.55E+00** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **3.57E-01** | | | **6.35E-01** | | | **9.97E-02** | | | **6.19E+00** | | | **NA** | | | **NA** |
| **1,2,3,4,6,7,8-HpCDF** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 12.43 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 2.86E+00 | 2.30E-01 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | 12.43 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | 14.15 | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 2.45E+00 | 1.73E-01 | EMA-01-FF3 | 0.00E+00 | ND |
| | | 14.15 | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 7.38E+00 | 5.21E-01 | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | 14.87 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 7.17E+01 | 4.82E+00 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 2.34E+00 | 1.57E-01 |
| | | 14.87 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | 14.87 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **5.21E-01** | | | **NA** | | | **2.53E+00** | | | **1.73E-01** | | | **1.57E-01** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **2.67E-01** | | | **NA** | | | **2.70E+00** | | | **8.88E-02** | | | **2.42E-02** |
| **1,2,3,4,7,8,9-HpCDF** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 3.07 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | 3.07 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | 2.311 | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | 2.311 | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | 3.545 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 3.47E+00 | 9.80E-01 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | 3.545 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | 3.545 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **9.80E-01** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **5.84E-01** | | | **NA** | | | **NA** |
| **1,2,3,4,7,8-HxCDD** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.497 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | 0.497 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | 0.666 | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 1.95E+00 | 2.92E+00 |
| | | 0.666 | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | 0.875 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | 0.875 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | 0.875 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **2.92E+00** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **4.10E-01** |
| **1,2,3,4,7,8-HxCDF** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 9.673 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 3.59E+00 | 3.71E-01 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | 9.673 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | 7.787 | EMA-02-EM1 | 2.02E+00 | 2.59E-01 | EMA-01-BM1 | 7.63E+00 | 9.79E-01 | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | 7.787 | EMA-02-EM2 | 2.42E+00 | 3.11E-01 | EMA-02-BM1 | 7.24E+00 | 9.30E-01 | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | 9.29 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 4.82E+00 | 5.19E-01 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | 9.29 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | 9.29 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **2.85E-01** | | | **9.55E-01** | | | **NA** | | | **4.45E-01** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **2.49E-01** | | | **8.34E-01** | | | **NA** | | | **4.71E-01** | | | **NA** | | | **NA** |

**Table F1-4a. PCDD/PCDF and DL-PCB BAFs for Aquatic Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Aquatic Plants | | | Benthic Invertebrates | | | Crayfish | | | Emergent Insects | | | Bottom Fish | | | Forage Fish | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **1,2,3,6,7,8-HxCDD** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | 1.398 | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | 1.398 | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | 1.845 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 2.71E+01 | 1.47E+01 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | 1.845 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | 1.845 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **1.47E+01** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **8.37E+00** | | | **NA** | | | **NA** |
| **1,2,3,6,7,8-HxCDF** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 2.863 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | 2.863 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | 2.892 | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | 2.892 | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | 3.197 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | 3.197 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | 3.197 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **1,2,3,7,8,9-HxCDD** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 1.153 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | 1.153 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | 1.607 | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | 1.607 | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | 2.805 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | 2.805 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | 2.805 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **1,2,3,7,8,9-HxCDF** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | N/A | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | N/A | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **1,2,3,7,8-PeCDD** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.397 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | 0.397 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | 0.527 | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | 0.527 | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | 0.602 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | 0.602 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | 0.602 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |

**Table F1-4a. PCDD/PCDF and DL-PCB BAFs for Aquatic Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Aquatic Plants | | | Benthic Invertebrates | | | Crayfish | | | Emergent Insects | | | Bottom Fish | | | Forage Fish | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **1,2,3,7,8-PeCDF** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 1.993 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 4.20E+00 | 2.11E+00 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | 1.993 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | 2.809 | EMA-02-EM1 | 1.56E+00 | 5.57E-01 | EMA-01-BM1 | 8.01E+00 | 2.85E+00 | EMA-03-CF1 | 2.29E+00 | 8.15E-01 | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | 2.809 | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 1.22E+01 | 4.35E+00 |
| | C7 (KM Mean) | 2.937 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | 2.937 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | 2.937 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **5.57E-01** | | | **2.85E+00** | | | **8.15E-01** | | | **2.11E+00** | | | **NA** | | | **4.35E+00** |
| **Site-wide Average Ratio BAF** | | | | | **3.03E-01** | | | **1.55E+00** | | | **4.43E-01** | | | **8.14E-01** | | | **NA** | | | **6.77E-01** |
| **2,3,4,6,7,8-HxCDF** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 1.92 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | 1.92 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | 2.272 | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | 2.272 | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | 2.306 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | 2.306 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | 2.306 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **2,3,4,7,8-PeCDF** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 5.477 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | 5.477 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | 5.656 | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 1.41E+01 | 2.49E+00 | EMA-03-CF1 | 4.10E+00 | 7.25E-01 | NA | NA | NA | EMA-02-BF3 | 5.70E+01 | 1.01E+01 | EMA-01-FF3 | 0.00E+00 | ND |
| | | 5.656 | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 1.18E+01 | 2.09E+00 | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | 7.42 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 4.61E+01 | 6.22E+00 | ELA-02-FF1 | 0.00E+00 | ND |
| | | 7.42 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | 7.42 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **2.29E+00** | | | **7.25E-01** | | | **NA** | | | **8.15E+00** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **2.10E+00** | | | **3.31E-01** | | | **NA** | | | **8.34E+00** | | | **NA** |
| **2,3,7,8-TCDD** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | 0.25 | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | 0.25 | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 3.64E+02 | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 1.29E+01 | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **2.15E+02** |
| **2,3,7,8-TCDF** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 10.75 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 3.29E+01 | 3.06E+00 | NA | NA | NA | EUA-02-FF3 | 2.12E+01 | 1.97E+00 |
| | | 10.75 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 2.38E+01 | 2.22E+00 |
| | C5 (KM Mean) | 14.8 | EMA-02-EM1 | 2.53E+01 | 1.71E+00 | EMA-01-BM1 | 1.02E+02 | 6.87E+00 | EMA-03-CF1 | 2.01E+01 | 1.36E+00 | NA | NA | NA | EMA-02-BF3 | 2.52E+02 | 1.70E+01 | EMA-01-FF3 | 9.96E+01 | 6.73E+00 |
| | | 14.8 | EMA-02-EM2 | 2.10E+01 | 1.42E+00 | EMA-02-BM1 | 9.07E+01 | 6.13E+00 | EMA-03-CF3 | 1.12E+01 | 7.55E-01 | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 2.49E+02 | 1.69E+01 |
| | C7 (KM Mean) | 18.36 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 4.48E+01 | 2.44E+00 | ELA-02-BF2 | 1.50E+02 | 8.16E+00 | ELA-02-FF1 | 1.74E+02 | 9.48E+00 |
| | | 18.36 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 3.35E+02 | 1.83E+01 |
| | | 18.36 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 6.82E+02 | 3.71E+01 |
| **Site-wide Median BAF** | | | | | **1.56E+00** | | | **6.50E+00** | | | **1.06E+00** | | | **2.75E+00** | | | **1.26E+01** | | | **9.48E+00** |
| **Site-wide Average Ratio BAF** | | | | | **1.58E+00** | | | **6.57E+00** | | | **1.07E+00** | | | **2.66E+00** | | | **1.37E+01** | | | **1.55E+01** |

**Table F1-4a. PCDD/PCDF and DL-PCB BAFs for Aquatic Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Aquatic Plants | | | Benthic Invertebrates | | | Crayfish | | | Emergent Insects | | | Bottom Fish | | | Forage Fish | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **Octa CDD** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 328.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 9.75E+02 | 2.97E+00 | NA | NA | NA | EUA-02-FF3 | 5.07E+01 | 1.54E-01 |
| | | 328.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 5.71E+01 | 1.74E-01 |
| | C5 (KM Mean) | 784.8 | EMA-02-EM1 | 1.53E+02 | 1.95E-01 | EMA-01-BM1 | 2.99E+02 | 3.81E-01 | EMA-03-CF1 | 6.12E+01 | 7.80E-02 | NA | NA | NA | EMA-02-BF3 | 2.47E+01 | 3.15E-02 | EMA-01-FF3 | 7.85E+01 | 1.00E-01 |
| | | 784.8 | EMA-02-EM2 | 2.29E+02 | 2.92E-01 | EMA-02-BM1 | 2.74E+02 | 3.49E-01 | EMA-03-CF3 | 3.64E+01 | 4.64E-02 | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 3.77E+01 | 4.80E-02 |
| | C7 (KM Mean) | 1135 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 8.60E+02 | 7.58E-01 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 9.27E+01 | 8.17E-02 |
| | | 1135 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 8.94E+01 | 7.88E-02 |
| | | 1135 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| | **Site-wide Median BAF** | | | | **2.43E-01** | | | **3.65E-01** | | | **6.22E-02** | | | **1.86E+00** | | | **3.15E-02** | | | **9.09E-02** |
| | **Site-wide Average Ratio BAF** | | | | **2.55E-01** | | | **3.83E-01** | | | **6.51E-02** | | | **1.22E+00** | | | **1.65E-02** | | | **7.74E-02** |
| **Octa CDF** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 19.47 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | 19.47 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | 24 | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | 24 | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | 27.03 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 5.60E+01 | 2.07E+00 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | 27.03 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | 27.03 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| | **Site-wide Median BAF** | | | | **NA** | | | **NA** | | | **NA** | | | **2.07E+00** | | | **NA** | | | **NA** |
| | **Site-wide Average Ratio BAF** | | | | **NA** | | | **NA** | | | **NA** | | | **1.19E+00** | | | **NA** | | | **NA** |
| **BZ#105** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.03 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 1.05E+00 | 3.50E+01 | NA | NA | NA | EUA-02-FF3 | 1.31E-01 | 4.37E+00 |
| | | 0.03 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 1.60E-01 | 5.32E+00 |
| | C5 (KM Mean) | 0.0357 | EMA-02-EM1 | 2.46E-02 | 6.89E-01 | EMA-01-BM1 | 3.69E-02 | 1.03E+00 | EMA-03-CF1 | 3.60E-02 | 1.01E+00 | NA | NA | NA | EMA-02-BF3 | 4.03E-01 | 1.13E+01 | EMA-01-FF3 | 3.04E-01 | 8.51E+00 |
| | | 0.0357 | EMA-02-EM2 | 2.00E-02 | 5.60E-01 | EMA-02-BM1 | 3.78E-02 | 1.06E+00 | EMA-03-CF3 | 2.27E-02 | 6.36E-01 | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 4.67E-01 | 1.31E+01 |
| | C7 (KM Mean) | 0.0305 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 2.52E-02 | 8.27E-01 | ELA-02-BF2 | 4.49E-01 | 1.47E+01 | ELA-02-FF1 | 3.25E-01 | 1.07E+01 |
| | | 0.0305 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 3.27E-01 | 1.07E+01 |
| | | 0.0305 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 4.08E-01 | 1.34E+01 |
| | **Site-wide Median BAF** | | | | **6.25E-01** | | | **1.05E+00** | | | **8.22E-01** | | | **1.79E+01** | | | **1.30E+01** | | | **1.07E+01** |
| | **Site-wide Average Ratio BAF** | | | | **6.95E-01** | | | **1.16E+00** | | | **9.15E-01** | | | **1.68E+01** | | | **1.33E+01** | | | **9.45E+00** |
| **BZ#114** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | N/A | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | N/A | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| | **Site-wide Median BAF** | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| | **Site-wide Average Ratio BAF** | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#118** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.0577 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 2.30E+00 | 3.99E+01 | NA | NA | NA | EUA-02-FF3 | 4.30E-01 | 7.45E+00 |
| | | 0.0577 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 4.62E-01 | 8.01E+00 |
| | C5 (KM Mean) | 0.0707 | EMA-02-EM1 | 4.13E-02 | 5.84E-01 | EMA-01-BM1 | 6.36E-02 | 8.99E-01 | EMA-03-CF1 | 7.48E-02 | 1.06E+00 | NA | NA | NA | EMA-02-BF3 | 1.17E+00 | 1.66E+01 | EMA-01-FF3 | 8.50E-01 | 1.20E+01 |
| | | 0.0707 | EMA-02-EM2 | 3.33E-02 | 4.71E-01 | EMA-02-BM1 | 7.11E-02 | 1.01E+00 | EMA-03-CF3 | 4.99E-02 | 7.05E-01 | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 1.40E+00 | 1.98E+01 |
| | C7 (KM Mean) | 0.0605 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 7.00E-02 | 1.16E+00 | ELA-02-BF2 | 1.27E+00 | 2.09E+01 | ELA-02-FF1 | 9.76E-01 | 1.61E+01 |
| | | 0.0605 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 9.39E-01 | 1.55E+01 |
| | | 0.0605 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 1.22E+00 | 2.02E+01 |
| | **Site-wide Median BAF** | | | | **5.28E-01** | | | **9.52E-01** | | | **8.82E-01** | | | **2.05E+01** | | | **1.88E+01** | | | **1.55E+01** |
| | **Site-wide Average Ratio BAF** | | | | **5.92E-01** | | | **1.07E+00** | | | **9.90E-01** | | | **1.88E+01** | | | **1.94E+01** | | | **1.43E+01** |

**Table F1-4a. PCDD/PCDF and DL-PCB BAFs for Aquatic Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Aquatic Plants | | | Benthic Invertebrates | | | Crayfish | | | Emergent Insects | | | Bottom Fish | | | Forage Fish | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **BZ#123** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | N/A | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | N/A | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#126** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | N/A | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | N/A | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#153** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.0737 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | NA | NA | NA | NA | NA | EUA-02-FF3 | NA | NA |
| | | 0.0737 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | NA | NA |
| | C5 (KM Mean) | 0.091 | EMA-02-EM1 | NA | NA | EMA-01-BM1 | NA | NA | EMA-03-CF1 | NA | NA | NA | NA | NA | EMA-02-BF3 | NA | NA | EMA-01-FF3 | NA | NA |
| | | 0.091 | EMA-02-EM2 | NA | NA | EMA-02-BM1 | NA | NA | EMA-03-CF3 | NA | NA | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | NA | NA |
| | C7 (KM Mean) | 0.076 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | NA | NA | ELA-02-BF2 | NA | NA | ELA-02-FF1 | NA | NA |
| | | 0.076 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | NA | NA |
| | | 0.076 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#156** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.00953 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 3.22E-01 | 3.38E+01 | NA | NA | NA | EUA-02-FF3 | 7.24E-02 | 7.60E+00 |
| | | 0.00953 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 8.40E-02 | 8.82E+00 |
| | C5 (KM Mean) | 0.0111 | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 3.22E-02 | 2.90E+00 | EMA-03-CF1 | 9.14E-03 | 8.24E-01 | NA | NA | NA | EMA-02-BF3 | 1.51E-01 | 1.36E+01 | EMA-01-FF3 | 1.05E-01 | 9.48E+00 |
| | | 0.0111 | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 3.07E-02 | 2.76E+00 | EMA-03-CF3 | 5.24E-03 | 4.72E-01 | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 1.91E-01 | 1.72E+01 |
| | C7 (KM Mean) | 0.0093 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 1.34E-02 | 1.45E+00 | ELA-02-BF2 | 1.59E-01 | 1.71E+01 | ELA-02-FF1 | 1.34E-01 | 1.44E+01 |
| | | 0.0093 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 1.27E-01 | 1.36E+01 |
| | | 0.0093 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 1.71E-01 | 1.84E+01 |
| **Site-wide Median BAF** | | | | | **NA** | | | **2.83E+00** | | | **6.48E-01** | | | **1.76E+01** | | | **1.54E+01** | | | **1.36E+01** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **3.15E+00** | | | **7.21E-01** | | | **1.68E+01** | | | **1.55E+01** | | | **1.27E+01** |
| **BZ#157** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.0021 | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | 0.0021 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | NA | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 3.32E-02 | NA |
| | | NA | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **2.26E+00** |

**Table F1-4a. PCDD/PCDF and DL-PCB BAFs for Aquatic Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Aquatic Plants | | | Benthic Invertebrates | | | Crayfish | | | Emergent Insects | | | Bottom Fish | | | Forage Fish | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **BZ#167** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | NA | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | NA | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 4.24E-03 | NA | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#169** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | NA | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | NA | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#189** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | NA | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | NA | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#77** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | NA | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | NA | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#81** | | | | | | | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02 | 0.00E+00 | ND | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND |
| | C5 (KM Mean) | NA | EMA-02-EM1 | 0.00E+00 | ND | EMA-01-BM1 | 0.00E+00 | ND | EMA-03-CF1 | 0.00E+00 | ND | NA | NA | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND |
| | | NA | EMA-02-EM2 | 0.00E+00 | ND | EMA-02-BM1 | 0.00E+00 | ND | EMA-03-CF3 | 0.00E+00 | ND | NA | NA | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND |
| | C7 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02 | 0.00E+00 | ND | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** | | | **NA** |

**Table F1-4a. PCDD/PCDF and DL-PCB BAFs for Aquatic Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Predator Fish | | | Frogs | | | Snakes | | | Molluscs | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **1,2,3,4,6,7,8-HpCDD** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 21.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 21.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 36.59 | NA | NA | NA | EMA-03 | 7.16E+00 | 1.96E-01 | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | 36.59 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 63.53 | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 63.53 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 3.51E+01 | 5.52E-01 |
| | | 63.53 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **1.96E-01** | | | **NA** | | | **5.52E-01** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **8.85E-02** | | | **NA** | | | **8.67E-01** |
| **1,2,3,4,6,7,8-HpCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 12.43 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 12.43 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 14.15 | NA | NA | NA | EMA-03 | 1.84E+00 | 1.30E-01 | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | 14.15 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 14.87 | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 2.04E+00 | 1.37E-01 | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 14.87 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | 14.87 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **1.34E-01** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **1.40E-01** | | | **NA** | | | **NA** |
| **1,2,3,4,7,8,9-HpCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 3.07 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 3.07 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 2.311 | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | 2.311 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 3.545 | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 3.545 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | 3.545 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **1,2,3,4,7,8-HxCDD** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.497 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 0.497 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 0.666 | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | 0.666 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 0.875 | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 0.875 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | 0.875 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **2.68E+00** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **1,2,3,4,7,8-HxCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 9.673 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 9.673 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 7.787 | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 2.53E+00 | 3.25E-01 | NA | NA | NA |
| | | 7.787 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 9.29 | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 3.52E+00 | 3.78E-01 | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 9.29 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 1.08E+01 | 1.16E+00 |
| | | 9.29 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **3.78E-01** | | | **3.25E-01** | | | **1.16E+00** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **1.97E-01** | | | **2.84E-01** | | | **1.21E+00** |

**Table F1-4a. PCDD/PCDF and DL-PCB BAFs for Aquatic Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Predator Fish | | | Frogs | | | Snakes | | | Molluscs | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **1,2,3,6,7,8-HxCDD** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 1.398 | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 7.05E-01 | 5.04E-01 | NA | NA | NA |
| | | 1.398 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 1.845 | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 1.845 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | 1.845 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **5.04E-01** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **4.35E-01** | | | **NA** |
| **1,2,3,6,7,8-HxCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 2.863 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 2.863 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 2.892 | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 1.55E+00 | 5.34E-01 | NA | NA | NA |
| | | 2.892 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 3.197 | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 2.00E+00 | 6.24E-01 | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 3.197 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 4.06E+01 | 1.27E+01 |
| | | 3.197 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **6.24E-01** | | | **5.34E-01** | | | **1.27E+01** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **3.34E-01** | | | **5.18E-01** | | | **1.36E+01** |
| **1,2,3,7,8,9-HxCDD** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 1.153 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 1.153 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 1.607 | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | 1.607 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 2.805 | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 2.805 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | 2.805 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **1,2,3,7,8,9-HxCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | N/A | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | N/A | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **1,2,3,7,8-PeCDD** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.397 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 0.397 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 0.527 | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | 0.527 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 0.602 | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 0.602 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | 0.602 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |

**Table F1-4a. PCDD/PCDF and DL-PCB BAFs for Aquatic Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Predator Fish | | | Frogs | | | Snakes | | | Molluscs | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **1,2,3,7,8-PeCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 1.993 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 1.993 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 2.809 | NA | NA | NA | EMA-03 | 2.04E+00 | 7.28E-01 | EMA-02 | 2.60E+00 | 9.25E-01 | NA | NA | NA |
| | | 2.809 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 2.937 | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 3.73E+00 | 1.27E+00 | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 2.937 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | 2.937 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **9.99E-01** | | | **9.25E-01** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **1.12E+00** | | | **1.01E+00** | | | **NA** |
| **2,3,4,6,7,8-HxCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 1.92 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 1.92 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 2.272 | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 7.99E-01 | 3.52E-01 | NA | NA | NA |
| | | 2.272 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 2.306 | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 2.306 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | 2.306 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **3.52E-01** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **3.69E-01** | | | **NA** |
| **2,3,4,7,8-PeCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 5.477 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 5.477 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 5.656 | NA | NA | NA | EMA-03 | 5.51E+00 | 9.74E-01 | EMA-02 | 2.15E+01 | 3.80E+00 | NA | NA | NA |
| | | 5.656 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 7.42 | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 1.14E+01 | 1.53E+00 | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 7.42 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 5.16E+01 | 6.95E+00 |
| | | 7.42 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **1.25E+00** | | | **3.80E+00** | | | **6.95E+00** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **1.37E+00** | | | **3.48E+00** | | | **8.34E+00** |
| **2,3,7,8-TCDD** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 0.25 | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 1.19E+00 | 4.77E+00 | NA | NA | NA |
| | | 0.25 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | N/A | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **4.77E+00** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **4.77E+00** | | | **NA** |
| **2,3,7,8-TCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 10.75 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 10.75 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 14.8 | NA | NA | NA | EMA-03 | 1.05E+01 | 7.09E-01 | EMA-02 | 1.45E+01 | 9.83E-01 | NA | NA | NA |
| | | 14.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 18.36 | ELA-02-PR1 | 2.02E+02 | 1.10E+01 | ELA-02 | 1.78E+01 | 9.69E-01 | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 18.36 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 1.01E+03 | 5.50E+01 |
| | | 18.36 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **1.26E+01** | | | **8.39E-01** | | | **9.83E-01** | | | **5.50E+01** |
| **Site-wide Average Ratio BAF** | | | | | **1.38E+01** | | | **9.66E-01** | | | **9.94E-01** | | | **6.90E+01** |

**Table F1-4a. PCDD/PCDF and DL-PCB BAFs for Aquatic Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Predator Fish | | | Frogs | | | Snakes | | | Molluscs | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **Octa CDD** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 328.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 328.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 784.8 | NA | NA | NA | EMA-03 | 4.32E+01 | 5.51E-02 | EMA-02 | 4.32E+01 | 5.50E-02 | NA | NA | NA |
| | | 784.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 1135 | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 2.73E+01 | 2.40E-02 | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 1135 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 5.35E+02 | 4.71E-01 |
| | | 1135 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **3.96E-02** | | | **5.50E-02** | | | **4.71E-01** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **4.71E-02** | | | **5.76E-02** | | | **7.14E-01** |
| **Octa CDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 19.47 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 19.47 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 24 | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 1.23E+00 | 5.11E-02 | NA | NA | NA |
| | | 24 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 27.03 | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 27.03 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | 27.03 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **5.11E-02** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **5.22E-02** | | | **NA** |
| **BZ#105** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.03 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 0.03 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 0.0357 | NA | NA | NA | EMA-03 | 1.11E-01 | 3.11E+00 | EMA-02 | 3.79E-01 | 1.06E+01 | NA | NA | NA |
| | | 0.0357 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 0.0305 | ELA-02-PR1 | 5.35E-01 | 1.75E+01 | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 0.0305 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 2.08E-01 | 6.81E+00 |
| | | 0.0305 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **1.75E+01** | | | **3.11E+00** | | | **1.06E+01** | | | **6.81E+00** |
| **Site-wide Average Ratio BAF** | | | | | **1.67E+01** | | | **1.73E+00** | | | **1.18E+01** | | | **6.48E+00** |
| **BZ#114** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | N/A | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | N/A | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#118** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.0577 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 0.0577 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 0.0707 | NA | NA | NA | EMA-03 | 3.24E-01 | 4.59E+00 | EMA-02 | 1.17E+00 | 1.66E+01 | NA | NA | NA |
| | | 0.0707 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 0.0605 | ELA-02-PR1 | 1.61E+00 | 2.65E+01 | ELA-02 | 4.33E-01 | 7.16E+00 | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 0.0605 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 7.53E-01 | 1.25E+01 |
| | | 0.0605 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **2.65E+01** | | | **5.87E+00** | | | **1.66E+01** | | | **1.25E+01** |
| **Site-wide Average Ratio BAF** | | | | | **2.55E+01** | | | **6.01E+00** | | | **1.86E+01** | | | **1.20E+01** |

**Table F1-4a. PCDD/PCDF and DL-PCB BAFs for Aquatic Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Predator Fish | | | Frogs | | | Snakes | | | Molluscs | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **BZ#123** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | N/A | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | N/A | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#126** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | N/A | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | N/A | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | N/A | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#153** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.0737 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 0.0737 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 0.091 | NA | NA | NA | EMA-03 | NA | NA | EMA-02 | NA | NA | NA | NA | NA |
| | | 0.091 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 0.076 | ELA-02-PR1 | NA | NA | ELA-02 | NA | NA | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 0.076 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | NA | NA |
| | | 0.076 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#156** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.00953 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 0.00953 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | 0.0111 | NA | NA | NA | EMA-03 | 4.44E-02 | 4.00E+00 | EMA-02 | 1.82E-01 | 1.64E+01 | NA | NA | NA |
| | | 0.0111 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | 0.0093 | ELA-02-PR1 | 2.44E-01 | 2.63E+01 | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | 0.0093 | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 7.79E-02 | 8.38E+00 |
| | | 0.0093 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **2.63E+01** | | | **4.00E+00** | | | **1.64E+01** | | | **8.38E+00** |
| **Site-wide Average Ratio BAF** | | | | | **2.45E+01** | | | **2.23E+00** | | | **1.82E+01** | | | **7.81E+00** |
| **BZ#157** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.0021 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 0.0021 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | NA | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | NA | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |

**Table F1-4a. PCDD/PCDF and DL-PCB BAFs for Aquatic Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Predator Fish | | | Frogs | | | Snakes | | | Molluscs | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **BZ#167** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | NA | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | NA | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#169** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | NA | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | NA | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#189** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | NA | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | NA | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#77** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | NA | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | NA | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#81** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C5 (KM Mean) | NA | NA | NA | NA | EMA-03 | 0.00E+00 | ND | EMA-02 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | C7 (KM Mean) | NA | ELA-02-PR1 | 0.00E+00 | ND | ELA-02 | 0.00E+00 | ND | NA | NA | NA | ELA-03-MS1 | NA | NA |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ELA-03-MS3 | 0.00E+00 | ND |
| | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | **A** | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |

**Notes:**

a. PCDD/PCDF congener data are presented in pg/g dry weight.
Dioxin-like PCB congener data are presented in mg/kg dry weight.

BAF: bioaccumulation factor
dw: dry weight
CDD: chlorodibenzo-p-dioxin
CDF: chlorodibenzo-p-furan
HpCDD: heptachlorodibenzo-p-dioxin
HpCDF: heptachlorodibenzofuran
HxCDD: hexachlorodibenzo-p-dioxin
HxCDF: hexachlorodibenzofuran
KM: Kaplan-Meier
mg/kg: milligrams per kilogram
NA: not applicable
ND: nondetect
PCB: polychlorinated biphenyl
PCDD: polychlorinated dibenzodioxin
PCDF: polychlorinated dibenzofuran
PeCDD: pentachlorodibenzo-p-dioxin
PeCDF: pentachlorodibenzofuran
pg/g: picograms per gram
TCDD: tetrachlorodibenzo-p-dioxin
TCDF: tetrachlorodibenzofuran

**Table F1-4b. PCDD/PCDF and DL-PCB BAFs for Fish**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Bottom Fish | | | Forage Fish | | | Predator Fish | | | All Fish | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **1,2,3,4,6,7,8-HpCDD** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 21.2 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 21.2 | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | 36.59 | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 36.59 | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | 63.53 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | 63.53 | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 63.53 | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **1,2,3,4,6,7,8-HpCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 12.43 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 12.43 | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | 14.15 | EMA-02-BF3 | 2.45E+00 | 1.73E-01 | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 14.15 | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | 14.87 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 2.34E+00 | 1.57E-01 | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | 14.87 | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 14.87 | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **1.73E-01** | | | **1.57E-01** | | | **NA** | | | **1.65E-01** |
| **Site-wide Average Ratio BAF** | | | | | **8.88E-02** | | | **2.42E-02** | | | **NA** | | | **3.47E-02** |
| **1,2,3,4,7,8,9-HpCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 3.07 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 3.07 | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | 2.311 | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 2.311 | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | 3.545 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | 3.545 | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 3.545 | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **1,2,3,4,7,8-HxCDD** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.497 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 0.497 | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | 0.666 | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 1.95E+00 | 2.92E+00 | NA | NA | NA | | | |
| | | 0.666 | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | 0.875 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | 0.875 | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 0.875 | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **2.92E+00** | | | **2.68E+00** | | | **2.92E+00** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **4.10E-01** | | | **NA** | | | **2.87E-01** |

**Table F1-4b. PCDD/PCDF and DL-PCB BAFs for Fish**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Bottom Fish | | | Forage Fish | | | Predator Fish | | | All Fish | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **1,2,3,4,7,8-HxCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 9.673 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 9.673 | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | 7.787 | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 7.787 | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | 9.29 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | 9.29 | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 9.29 | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **1,2,3,6,7,8-HxCDD** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | 1.398 | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 1.398 | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | 1.845 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | 1.845 | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 1.845 | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **1,2,3,6,7,8-HxCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 2.863 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 2.863 | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | 2.892 | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 2.892 | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | 3.197 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | 3.197 | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 3.197 | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **1,2,3,7,8,9-HxCDD** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 1.153 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 1.153 | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | 1.607 | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 1.607 | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | 2.805 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | 2.805 | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 2.805 | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |

**Table F1-4b. PCDD/PCDF and DL-PCB BAFs for Fish**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Bottom Fish | | | Forage Fish | | | Predator Fish | | | All Fish | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **1,2,3,7,8,9-HxCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | NA | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **1,2,3,7,8-PeCDD** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.397 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 0.397 | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | 0.527 | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 0.527 | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | 0.602 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | 0.602 | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 0.602 | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **1,2,3,7,8-PeCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 1.993 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 1.993 | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | 2.809 | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 2.809 | NA | NA | NA | EMA-01-FF6 | 1.22E+01 | 4.35E+00 | NA | NA | NA | | | |
| | C7 (KM Mean) | 2.937 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | 2.937 | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 2.937 | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **4.35E+00** | | | **NA** | | | **4.35E+00** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **6.77E-01** | | | **NA** | | | **4.74E-01** |
| **2,3,4,6,7,8-HxCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 1.92 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 1.92 | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | 2.272 | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 2.272 | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | 2.306 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | 2.306 | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 2.306 | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |

**Table F1-4b. PCDD/PCDF and DL-PCB BAFs for Fish**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Bottom Fish | | | Forage Fish | | | Predator Fish | | | All Fish | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **2,3,4,7,8-PeCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 5.477 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 5.477 | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | 5.656 | EMA-02-BF3 | 5.70E+01 | 1.01E+01 | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 5.656 | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | 7.42 | ELA-02-BF2 | 4.61E+01 | 6.22E+00 | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | 7.42 | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 7.42 | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **8.15E+00** | | | **NA** | | | **NA** | | | **8.15E+00** |
| **Site-wide Average Ratio BAF** | | | | | **8.34E+00** | | | **NA** | | | **NA** | | | **1.67E+00** |
| **2,3,7,8-TCDD** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | N/A | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | N/A | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | 0.25 | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 0.25 | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | N/A | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 3.64E+02 | NA | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | N/A | NA | NA | NA | ELA-02-FF2 | 1.29E+01 | NA | NA | NA | NA | | | |
| | | N/A | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **2.15E+02** | | | **NA** | | | **1.51E+02** |
| **2,3,7,8-TCDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 10.75 | NA | NA | NA | EUA-02-FF3 | 2.12E+01 | 1.97E+00 | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 10.75 | NA | NA | NA | EUA-02-FF9 | 2.38E+01 | 2.22E+00 | NA | NA | NA | | | |
| | C5 (KM Mean) | 14.8 | EMA-02-BF3 | 2.52E+02 | 1.70E+01 | EMA-01-FF3 | 9.96E+01 | 6.73E+00 | NA | NA | NA | | | |
| | | 14.8 | NA | NA | NA | EMA-01-FF6 | 2.49E+02 | 1.69E+01 | NA | NA | NA | | | |
| | C7 (KM Mean) | 18.36 | ELA-02-BF2 | 1.50E+02 | 8.16E+00 | ELA-02-FF1 | 1.74E+02 | 9.48E+00 | ELA-02-PR1 | 2.02E+02 | 1.10E+01 | | | |
| | | 18.36 | NA | NA | NA | ELA-02-FF2 | 3.35E+02 | 1.83E+01 | NA | NA | NA | | | |
| | | 18.36 | NA | NA | NA | ELA-02-FF4 | 6.82E+02 | 3.71E+01 | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **1.26E+01** | | | **9.48E+00** | | | **1.26E+01** | | | **1.02E+01** |
| **Site-wide Average Ratio BAF** | | | | | **1.37E+01** | | | **1.55E+01** | | | **1.38E+01** | | | **1.50E+01** |
| **Octa CDD** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 328.3 | NA | NA | NA | EUA-02-FF3 | 5.07E+01 | 1.54E-01 | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 328.3 | NA | NA | NA | EUA-02-FF9 | 5.71E+01 | 1.74E-01 | NA | NA | NA | | | |
| | C5 (KM Mean) | 784.8 | EMA-02-BF3 | 2.47E+01 | 3.15E-02 | EMA-01-FF3 | 7.85E+01 | 1.00E-01 | NA | NA | NA | | | |
| | | 784.8 | NA | NA | NA | EMA-01-FF6 | 3.77E+01 | 4.80E-02 | NA | NA | NA | | | |
| | C7 (KM Mean) | 1135 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 9.27E+01 | 8.17E-02 | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | 1135 | NA | NA | NA | ELA-02-FF2 | 8.94E+01 | 7.88E-02 | NA | NA | NA | | | |
| | | 1135 | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **3.15E-02** | | | **9.09E-02** | | | **NA** | | | **8.17E-02** |
| **Site-wide Average Ratio BAF** | | | | | **1.65E-02** | | | **7.74E-02** | | | **NA** | | | **5.75E-02** |

**Table F1-4b. PCDD/PCDF and DL-PCB BAFs for Fish**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Bottom Fish | | | Forage Fish | | | Predator Fish | | | All Fish | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **Octa CDF** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 19.47 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 19.47 | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | 24 | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 24 | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | 27.03 | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | 27.03 | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | 27.03 | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#105** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.03 | NA | NA | NA | EUA-02-FF3 | 1.31E-01 | 4.37E+00 | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 0.03 | NA | NA | NA | EUA-02-FF9 | 1.60E-01 | 5.32E+00 | NA | NA | NA | | | |
| | C5 (KM Mean) | 0.0357 | EMA-02-BF3 | 4.03E-01 | 1.13E+01 | EMA-01-FF3 | 3.04E-01 | 8.51E+00 | NA | NA | NA | | | |
| | | 0.0357 | NA | NA | NA | EMA-01-FF6 | 4.67E-01 | 1.31E+01 | NA | NA | NA | | | |
| | C7 (KM Mean) | 0.0305 | ELA-02-BF2 | 4.49E-01 | 1.47E+01 | ELA-02-FF1 | 3.25E-01 | 1.07E+01 | ELA-02-PR1 | 5.35E-01 | 1.75E+01 | | | |
| | | 0.0305 | NA | NA | NA | ELA-02-FF2 | 3.27E-01 | 1.07E+01 | NA | NA | NA | | | |
| | | 0.0305 | NA | NA | NA | ELA-02-FF4 | 4.08E-01 | 1.34E+01 | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **1.30E+01** | | | **1.07E+01** | | | **1.75E+01** | | | **1.10E+01** |
| **Site-wide Average Ratio BAF** | | | | | **1.33E+01** | | | **9.45E+00** | | | **1.67E+01** | | | **1.09E+01** |
| **BZ#114** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | NA | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |

**Table F1-4b. PCDD/PCDF and DL-PCB BAFs for Fish**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Bottom Fish | | | Forage Fish | | | Predator Fish | | | All Fish | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **BZ#118** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.0577 | NA | NA | NA | EUA-02-FF3 | 4.30E-01 | 7.45E+00 | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 0.0577 | NA | NA | NA | EUA-02-FF9 | 4.62E-01 | 8.01E+00 | NA | NA | NA | | | |
| | C5 (KM Mean) | 0.0707 | EMA-02-BF3 | 1.17E+00 | 1.66E+01 | EMA-01-FF3 | 8.50E-01 | 1.20E+01 | NA | NA | NA | | | |
| | | 0.0707 | NA | NA | NA | EMA-01-FF6 | 1.40E+00 | 1.98E+01 | NA | NA | NA | | | |
| | C7 (KM Mean) | 0.0605 | ELA-02-BF2 | 1.27E+00 | 2.09E+01 | ELA-02-FF1 | 9.76E-01 | 1.61E+01 | ELA-02-PR1 | 1.61E+00 | 2.65E+01 | | | |
| | | 0.0605 | NA | NA | NA | ELA-02-FF2 | 9.39E-01 | 1.55E+01 | NA | NA | NA | | | |
| | | 0.0605 | NA | NA | NA | ELA-02-FF4 | 1.22E+00 | 2.02E+01 | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **1.88E+01** | | | **1.55E+01** | | | **2.65E+01** | | | **1.64E+01** |
| **Site-wide Average Ratio BAF** | | | | | **1.94E+01** | | | **1.43E+01** | | | **2.55E+01** | | | **1.64E+01** |
| **BZ#123** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | NA | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#126** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | NA | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#153** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.0737 | NA | NA | NA | EUA-02-FF3 | NA | NA | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 0.0737 | NA | NA | NA | EUA-02-FF9 | NA | NA | NA | NA | NA | | | |
| | C5 (KM Mean) | 0.091 | EMA-02-BF3 | NA | NA | EMA-01-FF3 | NA | NA | NA | NA | NA | | | |
| | | 0.091 | NA | NA | NA | EMA-01-FF6 | NA | NA | NA | NA | NA | | | |
| | C7 (KM Mean) | 0.076 | ELA-02-BF2 | NA | NA | ELA-02-FF1 | NA | NA | ELA-02-PR1 | NA | NA | | | |
| | | 0.076 | NA | NA | NA | ELA-02-FF2 | NA | NA | NA | NA | NA | | | |
| | | 0.076 | NA | NA | NA | ELA-02-FF4 | NA | NA | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |

**Table F1-4b. PCDD/PCDF and DL-PCB BAFs for Fish**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Bottom Fish | | | Forage Fish | | | Predator Fish | | | All Fish | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **BZ#156** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.00953 | NA | NA | NA | EUA-02-FF3 | 7.24E-02 | 7.60E+00 | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 0.00953 | NA | NA | NA | EUA-02-FF9 | 8.40E-02 | 8.82E+00 | NA | NA | NA | | | |
| | C5 (KM Mean) | 0.0111 | EMA-02-BF3 | 1.51E-01 | 1.36E+01 | EMA-01-FF3 | 1.05E-01 | 9.48E+00 | NA | NA | NA | | | |
| | | 0.0111 | NA | NA | NA | EMA-01-FF6 | 1.91E-01 | 1.72E+01 | NA | NA | NA | | | |
| | C7 (KM Mean) | 0.0093 | ELA-02-BF2 | 1.59E-01 | 1.71E+01 | ELA-02-FF1 | 1.34E-01 | 1.44E+01 | ELA-02-PR1 | 2.44E-01 | 2.63E+01 | | | |
| | | 0.0093 | NA | NA | NA | ELA-02-FF2 | 1.27E-01 | 1.36E+01 | NA | NA | NA | | | |
| | | 0.0093 | NA | NA | NA | ELA-02-FF4 | 1.71E-01 | 1.84E+01 | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **1.54E+01** | | | **1.36E+01** | | | **2.63E+01** | | | **1.40E+01** |
| **Site-wide Average Ratio BAF** | | | | | **1.55E+01** | | | **1.27E+01** | | | **2.45E+01** | | | **1.44E+01** |
| **BZ#157** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | 0.0021 | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | 0.0021 | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 3.32E-02 | NA | NA | NA | NA | | | |
| | | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | NA | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **2.26E+00** | | | **NA** | | | **1.58E+00** |
| **BZ#167** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | NA | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#169** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | NA | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |

**Table F1-4b. PCDD/PCDF and DL-PCB BAFs for Fish**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Sediment | Bottom Fish | | | Forage Fish | | | Predator Fish | | | All Fish | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **BZ#189** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | NA | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#77** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | NA | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **BZ#81** | | | | | | | | | | | | | | |
| | C3 (KM Mean) | NA | NA | NA | NA | EUA-02-FF3 | 0.00E+00 | ND | NA | NA | NA | See Bottom Fish, Forage Fish, Predator Fish Samples | | |
| | | NA | NA | NA | NA | EUA-02-FF9 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C5 (KM Mean) | NA | EMA-02-BF3 | 0.00E+00 | ND | EMA-01-FF3 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | EMA-01-FF6 | 0.00E+00 | ND | NA | NA | NA | | | |
| | C7 (KM Mean) | NA | ELA-02-BF2 | 0.00E+00 | ND | ELA-02-FF1 | 0.00E+00 | ND | ELA-02-PR1 | 0.00E+00 | ND | | | |
| | | NA | NA | NA | NA | ELA-02-FF2 | 0.00E+00 | ND | NA | NA | NA | | | |
| | | NA | NA | NA | NA | ELA-02-FF4 | 0.00E+00 | ND | NA | NA | NA | | | |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** | | | **NA** | | | **NA** |

**Notes:**

a. PCDD/PCDF congener data are presented in pg/g dry weight.
Dioxin-like PCB congener data are presented in mg/kg dry weight.

BAF: bioaccumulation factor
dw: dry weight
CDD: chlorodibenzo-p-dioxin
CDF: chlorodibenzo-p-furan
HpCDD: heptachlorodibenzo-p-dioxin
HpCDF: heptachlorodibenzofuran
HxCDD: hexachlorodibenzo-p-dioxin
HxCDF: hexachlorodibenzofuran
KM: Kaplan-Meier
mg/kg: milligrams per kilogram
NA: not applicable
ND: nondetect
PCB: polychlorinated biphenyl
PCDD: polychlorinated dibenzodioxin
PCDF: polychlorinated dibenzofuran
PeCDD: pentachlorodibenzo-p-dioxin
PeCDF: pentachlorodibenzofuran
pg/g: picograms per gram
TCDD: tetrachlorodibenzo-p-dioxin
TCDF: tetrachlorodibenzofuran

**Table F1-5. PCDD/PCDF and DL-PCB BAFs for Terrestrial Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Soil | Small Mammals | | | Terrestrial Plants | | |
|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **1,2,3,4,6,7,8-HpCDD** | | | | | | | | |
| | C3N (KM Mean) | 94.15 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 5.75E+00 | NA | EUT-09-FF6 | 4.26E+00 | NA |
| | | NA | EUT-09-FF5 | 4.47E+00 | NA | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 1.89E+00 | NA | NA | NA | NA |
| | C5S (KM Mean) | 78.87 | EMT-08-FF6 | 3.34E+00 | 4.24E-02 | EMT-07-FF4 | 1.07E+01 | 1.36E-01 |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 3.47E+00 | NA | NA | NA | NA |
| | | NA | ELT-07-FF5 | 3.56E+00 | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **4.24E-02** | | | **1.36E-01** |
| **Site-wide Average Ratio BAF** | | | | | **4.33E-02** | | | **8.66E-02** |
| **1,2,3,4,6,7,8-HpCDF** | | | | | | | | |
| | C3N (KM Mean) | 35.52 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 3.78E+00 | NA | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 5.97E+00 | NA | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 1.27E+00 | NA | NA | NA | NA |
| | C5S (KM Mean) | 23.07 | EMT-08-FF6 | 2.00E+00 | 8.67E-02 | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 2.13E+00 | NA | NA | NA | NA |
| | | NA | ELT-07-FF5 | 1.73E+00 | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **8.67E-02** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **9.61E-02** | | | **NA** |
| **1,2,3,4,7,8,9-HpCDF** | | | | | | | | |
| | C3N (KM Mean) | 10.59 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 1.21E+00 | NA | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | 4.973 | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **2.58E-02** | | | **NA** |
| 1,2,3,4,7,8-HxCDD | | | | | | | | |
| | C3N (KM Mean) | 0.98 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | 0.5 | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |
| 1,2,3,4,7,8-HxCDF | | | | | | | | |
| | C3N (KM Mean) | 31.33 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 1.40E+01 | NA | EUT-09-FF6 | 1.05E+00 | NA |
| | | NA | EUT-09-FF5 | 2.02E+01 | NA | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 3.66E+00 | NA | NA | NA | NA |
| | C5S (KM Mean) | 14.49 | EMT-08-FF6 | 2.63E+00 | 1.81E-01 | EMT-07-FF4 | 2.37E+00 | 1.64E-01 |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 7.91E+00 | NA | NA | NA | NA |
| | | NA | ELT-07-FF5 | 3.94E+00 | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **1.81E-01** | | | **1.64E-01** |
| **Site-wide Average Ratio BAF** | | | | | **3.80E-01** | | | **7.46E-02** |

**Table F1-5. PCDD/PCDF and DL-PCB BAFs for Terrestrial Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Soil | Small Mammals | | | Terrestrial Plants | | |
|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| 1,2,3,6,7,8-HxCDD | | | | | | | | |
| | C3N (KM Mean) | 2.458 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 1.27E+00 | NA | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 8.13E-01 | NA | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | 3.523 | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **1.16E-01** | | | **NA** |
| 1,2,3,6,7,8-HxCDF | | | | | | | | |
| | C3N (KM Mean) | 8.498 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 4.47E+00 | NA | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 8.16E+00 | NA | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 2.56E+00 | NA | NA | NA | NA |
| | C5S (KM Mean) | 21.49 | EMT-08-FF6 | 3.59E+00 | 1.67E-01 | EMT-07-FF4 | 1.84E+00 | 8.58E-02 |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 7.69E+00 | NA | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **1.67E-01** | | | **8.58E-02** |
| **Site-wide Average Ratio BAF** | | | | | **2.94E-01** | | | **6.15E-02** |
| 1,2,3,7,8,9-HxCDD | | | | | | | | |
| | C3N (KM Mean) | 2.21 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | 2.076 | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |
| 1,2,3,7,8,9-HxCDF | | | | | | | | |
| | C3N (KM Mean) | 0.837 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | 0.42 | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |
| 1,2,3,7,8-PeCDD | | | | | | | | |
| | C3N (KM Mean) | 0.441 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | 0.312 | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |

**Table F1-5. PCDD/PCDF and DL-PCB BAFs for Terrestrial Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Soil | Small Mammals | | | Terrestrial Plants | | |
|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| 1,2,3,7,8-PeCDF | | | | | | | | |
| | C3N (KM Mean) | 7.388 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | 2.761 | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |
| 2,3,4,6,7,8-HxCDF | | | | | | | | |
| | C3N (KM Mean) | 5.178 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 1.55E+00 | NA | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 1.22E+01 | NA | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 3.34E+00 | NA | NA | NA | NA |
| | C5S (KM Mean) | 1.905 | EMT-08-FF6 | 4.31E+00 | 2.26E+00 | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 5.03E+00 | NA | NA | NA | NA |
| | | NA | ELT-07-FF5 | 4.50E+00 | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **2.26E+00** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **1.46E+00** | | | **NA** |
| 2,3,4,7,8-PeCDF | | | | | | | | |
| | C3N (KM Mean) | 15.54 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 1.56E+01 | NA | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 5.41E+01 | NA | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 1.29E+01 | NA | NA | NA | NA |
| | C5S (KM Mean) | 5.477 | EMT-08-FF6 | 9.63E+00 | 1.76E+00 | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 2.73E+01 | NA | NA | NA | NA |
| | | NA | ELT-07-FF5 | 1.76E+01 | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **1.76E+00** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **2.17E+00** | | | **NA** |
| 2,3,7,8-TCDD | | | | | | | | |
| | C3N (KM Mean) | 0.133 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | 0.121 | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |
| 2,3,7,8-TCDF | | | | | | | | |
| | C3N (KM Mean) | 21.7 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 1.60E+00 | NA | EUT-09-FF6 | 2.53E+00 | NA |
| | | NA | EUT-09-FF5 | 3.91E+00 | NA | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 1.26E+00 | NA | NA | NA | NA |
| | C5S (KM Mean) | 47.1 | EMT-08-FF6 | 1.89E+00 | 4.01E-02 | EMT-07-FF4 | 3.82E+00 | 8.11E-02 |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 4.06E+00 | NA | NA | NA | NA |
| | | NA | ELT-07-FF5 | 3.47E+00 | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **4.01E-02** | | | **8.11E-02** |
| **Site-wide Average Ratio BAF** | | | | | **7.84E-02** | | | **9.23E-02** |

**Table F1-5. PCDD/PCDF and DL-PCB BAFs for Terrestrial Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Soil | Small Mammals | | | Terrestrial Plants | | |
|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| Octa CDD | | | | | | | | |
| | C3N (KM Mean) | 4836 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 2.87E+01 | NA | EUT-09-FF6 | 6.23E+01 | NA |
| | | NA | EUT-09-FF5 | 2.89E+01 | NA | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 1.17E+01 | NA | NA | NA | NA |
| | C5S (KM Mean) | 1377 | EMT-08-FF6 | 3.53E+01 | 2.56E-02 | EMT-07-FF4 | 1.20E+02 | 8.74E-02 |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 1.86E+01 | NA | NA | NA | NA |
| | | NA | ELT-07-FF5 | 2.11E+01 | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **2.56E-02** | | | **8.74E-02** |
| **Site-wide Average Ratio BAF** | | | | | **7.74E-03** | | | **2.94E-02** |
| Octa CDF | | | | | | | | |
| | C3N (KM Mean) | 75.48 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 2.47E+00 | NA | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 1.96E+00 | NA | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 1.24E+00 | NA | NA | NA | NA |
| | C5S (KM Mean) | 45.6 | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **1.56E-02** | | | **NA** |
| **BZ#105** | | | | | | | | |
| | C3N (KM Mean) | 0.0933 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 2.22E-01 | NA | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 2.75E-02 | NA | NA | NA | NA |
| | C5S (KM Mean) | 0.0323 | EMT-08-FF6 | 1.75E-02 | 5.42E-01 | EMT-07-FF4 | 4.78E-03 | 1.48E-01 |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 9.06E-02 | NA | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **5.42E-01** | | | **1.48E-01** |
| **Site-wide Average Ratio BAF** | | | | | **9.49E-01** | | | **3.81E-02** |
| **BZ#114** | | | | | | | | |
| | C3N (KM Mean) | NA | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | NA | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |
| **BZ#118** | | | | | | | | |
| | C3N (KM Mean) | 0.181 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 1.59E-01 | NA | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 3.75E-01 | NA | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 5.00E-02 | NA | NA | NA | NA |
| | C5S (KM Mean) | 0.0623 | EMT-08-FF6 | 4.06E-02 | 6.52E-01 | EMT-07-FF4 | 8.37E-03 | 1.34E-01 |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 1.72E-01 | NA | NA | NA | NA |
| | | NA | ELT-07-FF5 | 1.44E-01 | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **6.52E-01** | | | **1.34E-01** |
| **Site-wide Average Ratio BAF** | | | | | **1.29E+00** | | | **3.44E-02** |

**Table F1-5. PCDD/PCDF and DL-PCB BAFs for Terrestrial Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Soil | Small Mammals | | | Terrestrial Plants | | |
|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **BZ#123** | | | | | | | | |
| | C3N (KM Mean) | NA | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | NA | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |
| **BZ#126** | | | | | | | | |
| | C3N (KM Mean) | NA | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | NA | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |
| **BZ#153** | | | | | | | | |
| | C3N (KM Mean) | 0.263 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | NA | NA | EUT-09-FF6 | NA | NA |
| | | NA | EUT-09-FF5 | NA | NA | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | NA | NA | NA | NA | NA |
| | C5S (KM Mean) | 0.111 | EMT-08-FF6 | NA | NA | EMT-07-FF4 | NA | NA |
| | C7S (KM Mean) | NA | ELT-06-FF3 | NA | NA | NA | NA | NA |
| | | NA | ELT-07-FF5 | NA | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |
| **BZ#156** | | | | | | | | |
| | C3N (KM Mean) | 0.0315 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 3.13E-01 | NA | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 5.31E-02 | NA | NA | NA | NA |
| | C5S (KM Mean) | 0.0118 | EMT-08-FF6 | 2.94E-02 | 2.49E+00 | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 1.13E-01 | NA | NA | NA | NA |
| | | NA | ELT-07-FF5 | 9.38E-02 | NA | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **2.49E+00** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **4.63E+00** | | | **NA** |
| **BZ#157** | | | | | | | | |
| | C3N (KM Mean) | 0.0103 | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | 0.0045 | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |

**Table F1-5. PCDD/PCDF and DL-PCB BAFs for Terrestrial Tissues**
**Anniston PCB Site, Anniston, Alabama**

| Congener | BSA | Soil | Small Mammals | | | Terrestrial Plants | | |
|---|---|---|---|---|---|---|---|---|
| | | (pg/g) [a] | Sample ID | (pg/g) [a] | BAF (dw/dw) | Sample ID | (pg/g) [a] | BAF (dw/dw) |
| **BZ#167** | | | | | | | | |
| | C3N (KM Mean) | NA | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | NA | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |
| **BZ#169** | | | | | | | | |
| | C3N (KM Mean) | NA | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | NA | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |
| **BZ#189** | | | | | | | | |
| | C3N (KM Mean) | NA | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | NA | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |
| **BZ#77** | | | | | | | | |
| | C3N (KM Mean) | NA | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | NA | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |
| **BZ#81** | | | | | | | | |
| | C3N (KM Mean) | NA | NA | NA | NA | NA | NA | NA |
| | C4S (KM Mean) | NA | EUT-08-SF5 | 0.00E+00 | ND | EUT-09-FF6 | 0.00E+00 | ND |
| | | NA | EUT-09-FF5 | 0.00E+00 | ND | NA | NA | NA |
| | C5N (KM Mean) | NA | EMT-05-FF2 | 0.00E+00 | ND | NA | NA | NA |
| | C5S (KM Mean) | NA | EMT-08-FF6 | 0.00E+00 | ND | EMT-07-FF4 | 0.00E+00 | ND |
| | C7S (KM Mean) | NA | ELT-06-FF3 | 0.00E+00 | ND | NA | NA | NA |
| | | NA | ELT-07-FF5 | 0.00E+00 | ND | NA | NA | NA |
| **Site-wide Median BAF** | | | | | **NA** | | | **NA** |
| **Site-wide Average Ratio BAF** | | | | | **NA** | | | **NA** |

**Notes:**

a. PCDD/PCDF congener data are presented in pg/g dry weight.
Dioxin-like PCB congener data are presented in mg/kg dry weight.

BAF: bioaccumulation factor
dw: dry weight
CDD: chlorodibenzo-p-dioxin
CDF: chlorodibenzo-p-furan
HpCDD: heptachlorodibenzo-p-dioxin
HpCDF: heptachlorodibenzofuran
HxCDD: hexachlorodibenzo-p-dioxin
HxCDF: hexachlorodibenzofuran
KM: Kaplan-Meier
mg/kg: milligrams per kilogram
NA: not applicable
ND: nondetect
PCB: polychlorinated biphenyl
PCDD: polychlorinated dibenzodioxin
PCDF: polychlorinated dibenzofuran
PeCDD: pentachlorodibenzo-p-dioxin
PeCDF: pentachlorodibenzofuran
pg/g: picograms per gram
TCDD: tetrachlorodibenzo-p-dioxin
TCDF: tetrachlorodibenzofuran

**Table F1-6. Summary of Site-Specific BAFs for Dioxin/Furan and Dioxin-like PCB Congeners**
**Anniston PCB Site, Anniston, Alabama**

| Congeners | Site-wide Median Soil BAFs [1] (dw/dw) | | | | Site-wide Median BAF Sediment BAFs [1] (dw/dw) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Mammals | BAF Type | Terrestrial Plants | BAF Type | Aquatic Plants | BAF Type | Benthic Invertebrates | BAF Type | Crayfish | BAF Type | Emergent Insects | BAF Type |
| Soil/sediment BSA KM Means (N) | 5 | | 5 | | 4 | | 4 | | 4 | | 4 | |
| Individual Tissue (N) | 6 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| **PCDD/PCDF Congeners** | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-HpCDD | 0.042 | median | 0.136 | median | 0.395 | median | 0.701 | median | 0.110 | median | 4.5E+00 | median |
| 1,2,3,4,6,7,8-HpCDF | 0.087 | median | NA | | NA | | 0.521 | median | NA | | 2.5E+00 | median |
| 1,2,3,4,7,8,9-HpCDF | 0.026 | ave ratio | NA | | NA | | NA | | NA | | 9.8E-01 | median |
| 1,2,3,4,7,8-HxCDD | NA | | NA | | NA | | NA | | NA | | NA | |
| 1,2,3,4,7,8-HxCDF | 0.181 | median | 0.164 | median | 0.285 | median | 0.955 | median | NA | | 4.4E-01 | median |
| 1,2,3,6,7,8-HxCDD | 0.116 | ave ratio | NA | | NA | | NA | | NA | | 1.5E+01 | median |
| 1,2,3,6,7,8-HxCDF | 0.167 | median | 0.086 | median | NA | | NA | | NA | | NA | |
| 1,2,3,7,8,9-HxCDD | NA | | NA | | NA | | NA | | NA | | NA | |
| 1,2,3,7,8,9-HxCDF | NA | | NA | | NA | | NA | | NA | | NA | |
| 1,2,3,7,8-PeCDD | NA | | NA | | NA | | NA | | NA | | NA | |
| 1,2,3,7,8-PeCDF | NA | | NA | | 0.557 | median | 2.851 | median | 0.815 | median | 2.1E+00 | median |
| 2,3,4,6,7,8-HxCDF | 2.264 | median | NA | | NA | | NA | | NA | | NA | |
| 2,3,4,7,8-PeCDF | 1.757 | median | NA | | NA | | 2.292 | median | 0.725 | median | NA | |
| 2,3,7,8-TCDD | NA | | NA | | NA | | NA | | NA | | NA | |
| 2,3,7,8-TCDF | 0.040 | median | 0.081 | median | 1.564 | median | 6.499 | median | 1.056 | median | 2.8E+00 | median |
| Octa CDD | 0.026 | median | 0.087 | median | 0.243 | median | 0.365 | median | 0.062 | median | 1.9E+00 | median |
| Octa CDF | 0.016 | ave ratio | NA | | NA | | NA | | NA | | 2.1E+00 | median |
| **Dioxin-Like PCB Congeners** | | | | | | | | | | | | |
| BZ#105 | 0.542 | median | 0.148 | median | 0.625 | median | 1.045 | median | 0.822 | median | 1.8E+01 | median |
| BZ#114 | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#118 | 0.652 | median | 0.134 | median | 0.528 | median | 0.952 | median | 0.882 | median | 2.1E+01 | median |
| BZ#123 | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#126 | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#153 | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#156 | 2.489 | median | NA | | NA | | 2.832 | median | 0.648 | median | 1.8E+01 | median |
| BZ#157 | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#167 | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#169 | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#189 | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#77 | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#81 | NA | | NA | | NA | | NA | | NA | | NA | |

**Table F1-6. Summary of Site-Specific BAFs for Dioxin/Furan and Dioxin-like PCB Congeners**
**Anniston PCB Site, Anniston, Alabama**

| Congeners | Site-wide Median BAF Sediment BAFs [1] (dw/dw) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottom Fish | BAF Type | Forage Fish | BAF Type | Predator Fish | BAF Type | Frogs | BAF Type | Snakes | BAF Type | Molluscs | BAF Type | All Fish | BAF Type |
| Soil/sediment BSA KM Means (N) | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| Individual Tissue (N) | 2 | | 7 | | 1 | | 2 | | 1 | | 2 | | 10 | |
| **PCDD/PCDF Congeners** | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-HpCDD | NA | | NA | | NA | | 2.0E-01 | median | NA | | 5.5E-01 | median | NA | |
| 1,2,3,4,6,7,8-HpCDF | 1.7E-01 | median | 1.6E-01 | median | NA | | 1.3E-01 | median | NA | | NA | | 1.7E-01 | median |
| 1,2,3,4,7,8,9-HpCDF | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 1,2,3,4,7,8-HxCDD | NA | | 2.9E+00 | median | 2.7E+00 | median | NA | | NA | | NA | | 2.9E+00 | median |
| 1,2,3,4,7,8-HxCDF | NA | | NA | | NA | | 3.8E-01 | median | 3.3E-01 | median | 1.2E+00 | median | NA | |
| 1,2,3,6,7,8-HxCDD | NA | | NA | | NA | | NA | | 5.0E-01 | median | NA | | NA | |
| 1,2,3,6,7,8-HxCDF | NA | | NA | | NA | | 6.2E-01 | median | 5.3E-01 | median | 1.3E+01 | median | NA | |
| 1,2,3,7,8,9-HxCDD | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 1,2,3,7,8,9-HxCDF | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 1,2,3,7,8-PeCDD | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 1,2,3,7,8-PeCDF | NA | | 4.3E+00 | median | NA | | 1.0E+00 | median | 9.3E-01 | median | NA | | 4.3E+00 | median |
| 2,3,4,6,7,8-HxCDF | NA | | NA | | NA | | NA | | 3.5E-01 | median | NA | | NA | |
| 2,3,4,7,8-PeCDF | 8.2E+00 | median | NA | | NA | | 1.3E+00 | median | 3.8E+00 | median | 6.9E+00 | median | 8.2E+00 | median |
| 2,3,7,8-TCDD | NA | | 2.2E+02 | ave ratio | NA | | NA | | 4.8E+00 | median | NA | | 1.5E+02 | ave ratio |
| 2,3,7,8-TCDF | 1.3E+01 | median | 9.5E+00 | median | 1.3E+01 | median | 8.4E-01 | median | 9.8E-01 | median | 5.5E+01 | median | 1.0E+01 | median |
| Octa CDD | 3.2E-02 | median | 9.1E-02 | median | NA | | 4.0E-02 | median | 5.5E-02 | median | 4.7E-01 | median | 8.2E-02 | median |
| Octa CDF | NA | | NA | | NA | | NA | | 5.1E-02 | median | NA | | NA | |
| **Dioxin-Like PCB Congeners** | | | | | | | | | | | | | NA | |
| BZ#105 | 1.3E+01 | median | 1.1E+01 | median | 1.8E+01 | median | 3.1E+00 | median | 1.1E+01 | median | 6.8E+00 | median | 1.1E+01 | median |
| BZ#114 | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#118 | 1.9E+01 | median | 1.6E+01 | median | 2.7E+01 | median | 5.9E+00 | median | 1.7E+01 | median | 1.2E+01 | median | 1.6E+01 | median |
| BZ#123 | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#126 | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#153 | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#156 | 1.5E+01 | median | 1.4E+01 | median | 2.6E+01 | median | 4.0E+00 | median | 1.6E+01 | median | 8.4E+00 | median | 1.4E+01 | median |
| BZ#157 | NA | | 2.3E+00 | ave ratio | NA | | NA | | NA | | NA | | 1.6E+00 | ave ratio |
| BZ#167 | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#169 | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#189 | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#77 | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| BZ#81 | NA | | NA | | NA | | NA | | NA | | NA | | NA | |

**Notes:**

[1] Soil and sediment BAFs calculated using soil/sediment Kaplan-Meier Mean in BSA and individual tissue composites (detects only);

[2] ave ratio: site-wide average ratio BAF.
median: Sitewide median BAF.

BAF: bioaccumulation factor
BSA: biological sampling area
CDD: chlorodibenzo-p-dioxin
CDD: chlorodibenzo-p-furan
dw: dry weight
KM: Kaplan-Meier
HpCDD: heptachlorodibenzo-p-dioxin
HpCDF: heptachlorodibenzofuran
HxCDD: hexachlorodibenzo-p-dioxin
HxCDF: hexachlorodibenzofuran
N: number of samples
NA: Not available because dioxin/furan congeners were not detected above the laboratory reporting limits in tissue samples.
PCB: polychlorinated biphenyl
PCDD: polychlorinated dibenzodioxin
PCDF: polychlorinated dibenzofuran
PeCDD: pentachlorodibenzo-p-dioxin
PeCDF: pentachlorodibenzofuran
TCDD: tetrachlorodibenzo-p-dioxin
TCDF: tetrachlorodibenzofuran

# ATTACHMENT F2

## Modeled Tissue TEQ Calculations

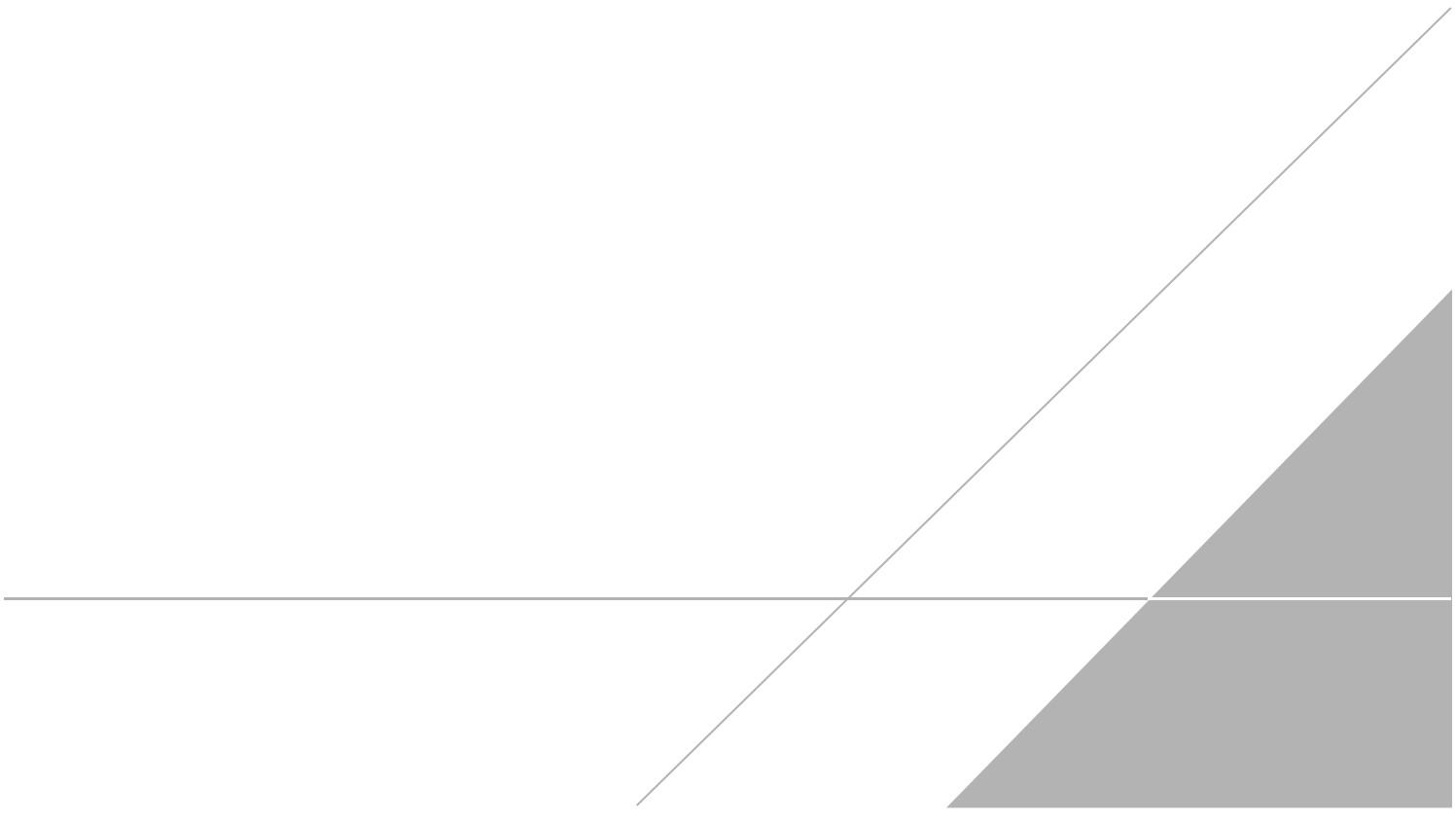

**Table F2-1. Site-wide Summary Statistics - Modeled Dioxin-Furan TEQs in Tissue**
**Anniston PCB Site, Anniston, Alabama**

| Reach | Summary Statistics | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Mammalian** | | | | | | | | | | | | |
| **Aquatic** | | | | | | | | | | | | |
| Aquatic Plants | 10 / 10 | 100 | 0.0166 | 13.81 | 3.372 | 1.744 | 18.5 | 4.301 | 10.5 | 95% Adjusted Gamma UCL | 10.5 | UCL |
| Benthic Invertebrates | 10 / 10 | 100 | 0.027 | 68.72 | 17.67 | 10.05 | 470.1 | 21.68 | 59.3 | 95% Adjusted Gamma UCL | 59.3 | UCL |
| Crayfish | 10 / 10 | 100 | 0.0045 | 11.66 | 3.278 | 1.984 | 14.37 | 3.791 | 11.01 | 95% Adjusted Gamma UCL | 11.01 | UCL |
| Emergent Insects | 10 / 10 | 100 | 0.354 | 34.98 | 9.877 | 4.142 | 144.2 | 12.01 | 27.06 | 95% Adjusted Gamma UCL | 27.06 | UCL |
| Frogs | 10 / 10 | 100 | 0.0059 | 19.74 | 4.949 | 2.866 | 38.22 | 6.182 | 8.532 | 95% Student's-t UCL | 8.532 | UCL |
| Molluscs | 10 / 10 | 100 | 0.027 | 440.4 | 113.6 | 64.69 | 19238 | 138.7 | 411.8 | 95% Adjusted Gamma UCL | 411.8 | UCL |
| Snakes | 10 / 10 | 100 | 0.00822 | 34.56 | 10.13 | 6.503 | 133.9 | 11.57 | 16.84 | 95% Student's-t UCL | 16.84 | UCL |
| All Fish | 10 / 10 | 100 | 0.0023 | 142.4 | 42.83 | 25.43 | 2520 | 50.2 | 71.94 | 95% Student's-t UCL | 71.94 | UCL |
| Bottom Fish | 10 / 10 | 100 | 0.00089 | 129.2 | 36.44 | 22.32 | 1765 | 42.01 | 60.79 | 95% Student's-t UCL | 60.79 | UCL |
| Forage Fish | 10 / 10 | 100 | 0.0026 | 143.4 | 30.89 | 11.08 | 1998 | 44.7 | 56.8 | 95% Student's-t UCL | 56.8 | UCL |
| Predator Fish | 9 / 9 | 100 | 0.79 | 81 | 23.76 | 12.15 | 681.3 | 26.1 | 67.86 | 95% Adjusted Gamma UCL | 67.86 | UCL |
| **Terrestrial** | | | | | | | | | | | | |
| Earthworm | 100 / 100 | 100 | 0.0124 | 9.938 | 1.227 | 0.759 | 2.611 | 1.616 | 1.932 | 95% Chebyshev (Mean, Sd) UCL | 1.932 | UCL |
| Mammals | 100 / 100 | 100 | 0.0173 | 46.2 | 8.467 | 6.925 | 50.48 | 7.105 | 11.56 | 95% Chebyshev (Mean, Sd) UCL | 11.56 | UCL |
| Terrestrial Plants | 100 / 100 | 100 | 0.05 | 9.798 | 1.422 | 0.976 | 2.456 | 1.567 | 1.771 | 95% H-UCL | 1.771 | UCL |
| **Avian** | | | | | | | | | | | | |
| **Aquatic** | | | | | | | | | | | | |
| Aquatic Plants | 10 / 10 | 100 | 0.00327 | 104.3 | 26.97 | 14.79 | 1084 | 32.93 | 100.7 | 95% Adjusted Gamma UCL | 100.7 | UCL |
| Benthic Invertebrates | 10 / 10 | 100 | 0.0051 | 482.2 | 127.1 | 72.7 | 23497 | 153.3 | 482.2 | Maximum | 482.2 | UCL |
| Crayfish | 10 / 10 | 100 | 0.00086 | 83.61 | 22.56 | 13.04 | 717.9 | 26.79 | 83.61 | Maximum | 83.61 | UCL |
| Emergent Insects | 10 / 10 | 100 | 0.0483 | 193.3 | 49.34 | 27 | 3706 | 60.87 | 167.8 | 95% Adjusted Gamma UCL | 167.8 | UCL |
| Frogs | 10 / 10 | 100 | 0.00085 | 87.25 | 23.38 | 13.8 | 773.5 | 27.81 | 39.5 | 95% Student's-t UCL | 39.5 | UCL |
| Molluscs | 10 / 10 | 100 | 0.0059 | 3689 | 973 | 557.4 | 1364885 | 1168 | 3689 | Maximum | 3689 | UCL |
| Snakes | 10 / 10 | 100 | 0.00119 | 145.4 | 41.68 | 26.22 | 2275 | 47.7 | 69.33 | 95% Student's-t UCL | 69.33 | UCL |
| All Fish | 10 / 10 | 100 | 0.00077 | 828.8 | 235.1 | 142.8 | 74541 | 273 | 828.8 | Maximum | 828.8 | UCL |
| Bottom Fish | 10 / 10 | 100 | 0.0003 | 970.2 | 263.2 | 154 | 96608 | 310.8 | 970.2 | Maximum | 970.2 | UCL |
| Forage Fish | 10 / 10 | 100 | 0.00086 | 618.8 | 176 | 106.8 | 43075 | 207.5 | 618.8 | Maximum | 618.8 | UCL |
| Predator Fish | 9 / 9 | 100 | 7.9 | 810 | 236.3 | 120.1 | 67882 | 260.5 | 675.4 | 95% Adjusted Gamma UCL | 675.4 | UCL |
| **Terrestrial** | | | | | | | | | | | | |
| Earthworm | 100 / 100 | 100 | 0.00362 | 74.38 | 6.636 | 3.155 | 136.5 | 11.68 | 11.73 | 95% Chebyshev (Mean, Sd) UCL | 11.73 | UCL |
| Mammals | 100 / 100 | 100 | 0.0041 | 141.4 | 24.59 | 19.66 | 465.5 | 21.58 | 29.12 | 95% Approximate Gamma UCL | 29.12 | UCL |
| Terrestrial Plants | 100 / 100 | 100 | 0.0126 | 59.04 | 5.071 | 2.427 | 85.33 | 9.238 | 7.499 | 95% H-UCL | 7.499 | UCL |
| **Fish** | | | | | | | | | | | | |
| All Fish | 10 / 10 | 100 | 0.00077 | 148.9 | 45.26 | 29.9 | 2685 | 51.82 | 75.3 | 95% Student's-t UCL | 75.3 | UCL |
| Bottom Fish | 10 / 10 | 100 | 0.0003 | 120.2 | 35.9 | 23.52 | 1601 | 40.01 | 59.09 | 95% Student's-t UCL | 59.09 | UCL |
| Forage Fish | 10 / 10 | 100 | 0.00086 | 129.9 | 23.77 | 6.503 | 1580 | 39.74 | 109.2 | 95% Adjusted Gamma UCL | 109.2 | UCL |
| Predator Fish | 9 / 9 | 100 | 0.4 | 40 | 12.39 | 6.94 | 172.4 | 13.13 | 20.53 | 95% Student's-t UCL | 20.53 | UCL |

**Notes:**
All units in nanograms per kilogram dry weight (ng/kg dw)
Non-detect congeners evaluated at zero for TEQ calculations
%: percent FOD: frequency of detection Sd: standard deviation UCL: upper confidence limit
EPC: exposure point concentration ng/kg dw: nanograms per kilogram dry weight TEQ: toxic equivalent

**Table F2-2. Site-wide Summary Statistics - Modeled Dioxin-Like PCB TEQs in Tissue**
**Anniston PCB Site, Anniston, Alabama**

| Reach | Summary Statistics | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Mammalian** | | | | | | | | | | | | |
| **Aquatic** | | | | | | | | | | | | |
| Aquatic Plants | 10 / 10 | 100 | 0.0348 | 2.413 | 1.234 | 1.026 | 0.849 | 0.921 | 1.768 | 95% Student's-t UCL | 1.768 | UCL |
| Benthic Invertebrates | 10 / 10 | 100 | 0.0629 | 5.687 | 2.808 | 2.324 | 4.459 | 2.112 | 4.032 | 95% Student's-t UCL | 4.032 | UCL |
| Crayfish | 10 / 10 | 100 | 0.0582 | 4.057 | 2.048 | 1.688 | 2.338 | 1.529 | 2.935 | 95% Student's-t UCL | 2.935 | UCL |
| Emergent Insects | 10 / 10 | 100 | 1.355 | 94.05 | 47.38 | 38.96 | 1250 | 35.36 | 67.88 | 95% Student's-t UCL | 67.88 | UCL |
| Frogs | 10 / 10 | 100 | 0.388 | 23.6 | 11.87 | 9.626 | 77.88 | 8.825 | 16.99 | 95% Student's-t UCL | 16.99 | UCL |
| Molluscs | 10 / 10 | 100 | 0.822 | 50.28 | 25.3 | 20.53 | 353.8 | 18.81 | 36.21 | 95% Student's-t UCL | 36.21 | UCL |
| Snakes | 10 / 10 | 100 | 1.096 | 71.83 | 36.03 | 29.36 | 720.3 | 26.84 | 51.58 | 95% Student's-t UCL | 51.58 | UCL |
| All Fish | 10 / 10 | 100 | 1.08 | 70.44 | 35.42 | 28.94 | 695.7 | 26.38 | 50.71 | 95% Student's-t UCL | 50.71 | UCL |
| Bottom Fish | 10 / 10 | 100 | 1.238 | 80.94 | 40.72 | 33.25 | 920 | 30.33 | 58.3 | 95% Student's-t UCL | 58.3 | UCL |
| Forage Fish | 10 / 10 | 100 | 1.024 | 67.27 | 33.83 | 27.68 | 634.7 | 25.19 | 48.43 | 95% Student's-t UCL | 48.43 | UCL |
| Predator Fish | 10 / 10 | 100 | 1.751 | 115.6 | 58 | 47.31 | 1868 | 43.22 | 83.05 | 95% Student's-t UCL | 83.05 | UCL |
| **Terrestrial** | | | | | | | | | | | | |
| Earthworm | 98 / 98 | 100 | 0.00177 | 136.9 | 6.002 | 0.138 | 502.7 | 22.42 | 15.87 | 95% Chebyshev (Mean, Sd) UCL | 15.87 | UCL |
| Mammals | 98 / 98 | 100 | 0.0372 | 11.34 | 3.72 | 3.366 | 7.657 | 2.767 | 4.357 | 95% Approximate Gamma UCL | 4.357 | UCL |
| Terrestrial Plants | 98 / 98 | 100 | 0.00765 | 1.75 | 0.564 | 0.489 | 0.185 | 0.43 | 0.66 | 95% Approximate Gamma UCL | 0.66 | UCL |
| **Avian** | | | | | | | | | | | | |
| **Aquatic** | | | | | | | | | | | | |
| Aquatic Plants | 10 / 10 | 100 | 0.0116 | 3.416 | 1.758 | 1.579 | 1.822 | 1.35 | 2.541 | 95% Student's-t UCL | 2.541 | UCL |
| Benthic Invertebrates | 10 / 10 | 100 | 0.021 | 10.56 | 5.109 | 4.504 | 15.49 | 3.936 | 7.391 | 95% Student's-t UCL | 7.391 | UCL |
| Crayfish | 10 / 10 | 100 | 0.0194 | 5.747 | 2.895 | 2.552 | 4.92 | 2.218 | 4.181 | 95% Student's-t UCL | 4.181 | UCL |
| Emergent Insects | 10 / 10 | 100 | 0.452 | 132.4 | 66.34 | 58.26 | 2583 | 50.82 | 95.8 | 95% Student's-t UCL | 95.8 | UCL |
| Frogs | 10 / 10 | 100 | 0.129 | 26.88 | 13.38 | 11.61 | 104.4 | 10.22 | 19.31 | 95% Student's-t UCL | 19.31 | UCL |
| Molluscs | 10 / 10 | 100 | 0.274 | 57.78 | 28.8 | 25.01 | 483.7 | 21.99 | 41.55 | 95% Student's-t UCL | 41.55 | UCL |
| Snakes | 10 / 10 | 100 | 0.365 | 92.93 | 45.99 | 39.93 | 1239 | 35.19 | 66.39 | 95% Student's-t UCL | 66.39 | UCL |
| All Fish | 10 / 10 | 100 | 0.36 | 90.43 | 45.04 | 39.38 | 1186 | 34.44 | 65 | 95% Student's-t UCL | 65 | UCL |
| Bottom Fish | 10 / 10 | 100 | 0.413 | 104.3 | 52.02 | 45.39 | 1584 | 39.8 | 75.08 | 95% Student's-t UCL | 75.08 | UCL |
| Forage Fish | 10 / 10 | 100 | 0.341 | 87.38 | 43.53 | 38.14 | 1108 | 33.28 | 62.82 | 95% Student's-t UCL | 62.82 | UCL |
| Predator Fish | 10 / 10 | 100 | 0.584 | 151.3 | 74.96 | 65.16 | 3291 | 57.37 | 108.2 | 95% Student's-t UCL | 108.2 | UCL |
| **Terrestrial** | | | | | | | | | | | | |
| Earthworm | 98 / 98 | 100 | 0.00058946 | 613.1 | 12.83 | 0.235 | 4232 | 65.05 | 41.47 | 95% Chebyshev (Mean, Sd) UCL | 41.47 | UCL |
| Mammals | 98 / 98 | 100 | 0.0124 | 21.36 | 7.186 | 6.56 | 28.01 | 5.292 | 9.517 | 95% Chebyshev (Mean, Sd) UCL | 9.517 | UCL |
| Terrestrial Plants | 98 / 98 | 100 | 0.00255 | 2.448 | 0.807 | 0.683 | 0.389 | 0.624 | 0.952 | 95% Approximate Gamma UCL | 0.952 | UCL |
| **Fish** | | | | | | | | | | | | |
| All Fish | 10 / 10 | 100 | 0.18 | 11.74 | 5.903 | 4.823 | 19.33 | 4.396 | 8.452 | 95% Student's-t UCL | 8.452 | UCL |
| Bottom Fish | 10 / 10 | 100 | 0.206 | 13.49 | 6.786 | 5.542 | 25.55 | 5.055 | 9.717 | 95% Student's-t UCL | 9.717 | UCL |
| Forage Fish | 10 / 10 | 100 | 0.171 | 11.21 | 5.638 | 4.613 | 17.63 | 4.199 | 8.072 | 95% Student's-t UCL | 8.072 | UCL |
| Predator Fish | 10 / 10 | 100 | 0.292 | 19.27 | 9.667 | 7.885 | 51.89 | 7.203 | 13.84 | 95% Student's-t UCL | 13.84 | UCL |

**Notes:**
All units in nanograms per kilogram dry weight (ng/kg dw)
Non-detect congeners evaluated at zero for TEQ calculations
%: percent FOD: frequency of detection Sd: standard deviation UCL: upper confidence limit
EPC: exposure point concentration ng/kg dw: nanograms per kilogram dry weight TEQ: toxic equivalent

**Table F2-3. Site-wide Summary Statistics - Modeled Total TEQs in Tissue**
**Anniston PCB Site, Anniston, Alabama**

| Reach | Summary Statistics | | | | | | | | | Exposure Point Concentration | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Detects / Total | FOD (%) | Minimum Detect | Maximum Detect | Mean | Median | Variance | Standard Deviation | UCL | UCL Method | Selected EPC | Basis |
| **Mammalian** | | | | | | | | | | | | |
| **Aquatic** | | | | | | | | | | | | |
| Aquatic Plants | 13 / 13 | 100 | 0.0166 | 13.81 | 3.543 | 1.798 | 18.45 | 4.296 | 5.667 | 95% Student's-t UCL | 5.667 | UCL |
| Benthic Invertebrates | 13 / 13 | 100 | 0.027 | 68.72 | 15.75 | 7.185 | 439.2 | 20.96 | 26.11 | 95% Student's-t UCL | 26.11 | UCL |
| Crayfish | 13 / 13 | 100 | 0.0045 | 11.66 | 4.098 | 2.308 | 18.87 | 4.343 | 6.245 | 95% Student's-t UCL | 6.245 | UCL |
| Emergent Insects | 13 / 13 | 100 | 0.354 | 116.3 | 44.04 | 30.01 | 1743 | 41.75 | 64.68 | 95% Student's-t UCL | 64.68 | UCL |
| Frogs | 13 / 13 | 100 | 0.0059 | 32.88 | 12.94 | 8.176 | 141.9 | 11.91 | 18.83 | 95% Student's-t UCL | 18.83 | UCL |
| Molluscs | 13 / 13 | 100 | 0.027 | 440.4 | 106.8 | 52.08 | 18513 | 136.1 | 174.1 | 95% Student's-t UCL | 174.1 | UCL |
| Snakes | 13 / 13 | 100 | 0.00822 | 94.1 | 35.51 | 23.61 | 1121 | 33.48 | 52.05 | 95% Student's-t UCL | 52.05 | UCL |
| All Fish | 13 / 13 | 100 | 0.0023 | 212.9 | 60.19 | 31.64 | 4303 | 65.59 | 92.62 | 95% Student's-t UCL | 92.62 | UCL |
| Bottom Fish | 13 / 13 | 100 | 0.00089 | 155 | 59.35 | 35.99 | 3363 | 57.99 | 88.02 | 95% Student's-t UCL | 88.02 | UCL |
| Forage Fish | 13 / 13 | 100 | 0.0026 | 210.7 | 49.78 | 25.24 | 3576 | 59.8 | 79.34 | 95% Student's-t UCL | 79.34 | UCL |
| Predator Fish | 12 / 12 | 100 | 0.79 | 158.1 | 66.16 | 57.1 | 3123 | 55.89 | 95.13 | 95% Student's-t UCL | 95.13 | UCL |
| **Terrestrial** | | | | | | | | | | | | |
| Earthworm | 102 / 102 | 100 | 0.0124 | 146.8 | 6.97 | 0.973 | 522.1 | 22.85 | 16.83 | 95% Chebyshev (Mean, Sd) UCL | 16.83 | UCL |
| Mammals | 102 / 102 | 100 | 0.0173 | 48.85 | 11.87 | 10.44 | 84.68 | 9.202 | 15.85 | 95% Chebyshev (Mean, Sd) UCL | 15.85 | UCL |
| Terrestrial Plants | 102 / 102 | 100 | 0.05 | 11.26 | 1.936 | 1.51 | 3.296 | 1.816 | 2.237 | 95% Approximate Gamma UCL | 2.237 | UCL |
| **Avian** | | | | | | | | | | | | |
| **Aquatic** | | | | | | | | | | | | |
| Aquatic Plants | 13 / 13 | 100 | 0.00327 | 104.3 | 22.1 | 10.62 | 975.2 | 31.23 | 79.3 | 95% Adjusted Gamma UCL | 79.3 | UCL |
| Benthic Invertebrates | 13 / 13 | 100 | 0.0051 | 482.2 | 101.7 | 46.23 | 21064 | 145.1 | 392.2 | 95% Adjusted Gamma UCL | 392.2 | UCL |
| Crayfish | 13 / 13 | 100 | 0.00086 | 83.61 | 19.58 | 9.742 | 673.4 | 25.95 | 68.75 | 95% Adjusted Gamma UCL | 68.75 | UCL |
| Emergent Insects | 13 / 13 | 100 | 0.0483 | 229 | 88.98 | 58.76 | 7437 | 86.24 | 131.6 | 95% Student's-t UCL | 131.6 | UCL |
| Frogs | 13 / 13 | 100 | 0.00085 | 87.25 | 28.28 | 16.09 | 948.9 | 30.8 | 43.51 | 95% Student's-t UCL | 43.51 | UCL |
| Molluscs | 13 / 13 | 100 | 0.0059 | 3689 | 770.6 | 362.2 | 1219243 | 1104 | 3031 | 95% Adjusted Gamma UCL | 3031 | UCL |
| Snakes | 13 / 13 | 100 | 0.00119 | 179.1 | 67.44 | 42.17 | 4454 | 66.74 | 100.4 | 95% Student's-t UCL | 100.4 | UCL |
| All Fish | 13 / 13 | 100 | 0.00077 | 828.8 | 215.5 | 106.6 | 73757 | 271.6 | 349.7 | 95% Student's-t UCL | 349.7 | UCL |
| Bottom Fish | 13 / 13 | 100 | 0.0003 | 970.2 | 242.4 | 124.7 | 94306 | 307.1 | 394.2 | 95% Student's-t UCL | 394.2 | UCL |
| Forage Fish | 13 / 13 | 100 | 0.00086 | 618.8 | 168.9 | 83.62 | 43920 | 209.6 | 272.4 | 95% Student's-t UCL | 272.4 | UCL |
| Predator Fish | 12 / 12 | 100 | 0.584 | 810 | 239.7 | 162.2 | 70627 | 265.8 | 377.5 | 95% Student's-t UCL | 377.5 | UCL |
| **Terrestrial** | | | | | | | | | | | | |
| Earthworm | 102 / 102 | 100 | 0.00362 | 660.4 | 18.83 | 3.873 | 4876 | 69.83 | 28.95 | 95% H-UCL | 28.95 | UCL |
| Mammals | 102 / 102 | 100 | 0.0041 | 146.5 | 31.01 | 27.28 | 644.1 | 25.38 | 36.7 | 95% Approximate Gamma UCL | 36.7 | UCL |
| Terrestrial Plants | 102 / 102 | 100 | 0.0126 | 61.12 | 5.747 | 3.312 | 88.64 | 9.415 | 9.81 | 95% Chebyshev (Mean, Sd) UCL | 9.81 | UCL |
| **Fish** | | | | | | | | | | | | |
| All Fish | 13 / 13 | 100 | 0.00077 | 160.6 | 39.35 | 15.09 | 2666 | 51.63 | 64.88 | 95% Student's-t UCL | 64.88 | UCL |
| Bottom Fish | 13 / 13 | 100 | 0.0003 | 120.2 | 32.83 | 15.92 | 1617 | 40.21 | 52.71 | 95% Student's-t UCL | 52.71 | UCL |
| Forage Fish | 13 / 13 | 100 | 0.00086 | 141.1 | 22.62 | 6.443 | 1498 | 38.7 | 75.97 | 95% Adjusted Gamma UCL | 75.97 | UCL |
| Predator Fish | 12 / 12 | 100 | 0.292 | 42.47 | 17.35 | 13.3 | 261.2 | 16.16 | 25.73 | 95% Student's-t UCL | 25.73 | UCL |

**Notes:**
All units in nanograms per kilogram dry weight (ng/kg dw)
Non-detect congeners evaluated at zero for TEQ calculations
%: percent FOD: frequency of detection Sd: standard deviation UCL: upper confidence limit
EPC: exposure point concentration ng/kg dw: nanograms per kilogram dry weight TEQ: toxic equivalent

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Mamm PCDD/PCDF TEQ | Mamm PCDD/PCDF TEQ (2 sig figs) | Mamm DL-PCB TEQ | Mamm DL-PCB TEQ (2 sig figs) | Mamm Total TEQ | Mamm Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 11.96 | 12 | 8.15 | 8.20 | 20.11 | 20 | 0.321 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 3.52 | 4 | 2.59 | 2.60 | 6.11 | 6 | 0.308 | 0 | 0 | 1 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 6.02 | 6 | 3.58 | 3.60 | 9.59 | 10 | 0.455 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 16.33 | 16 | 7.39 | 7.40 | 23.73 | 24 | 0.165 | 0 | 0 | 1 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 10.91 | 11 | 6.10 | 6.10 | 17.01 | 17 | 0.195 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 8.07 | 8 | 4.31 | 4.30 | 12.37 | 12 | 0.116 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 9.42 | 9 | 5.66 | 5.70 | 15.07 | 15 | 0.138 | 0 | 0 | 1 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.15 | 1 | 1.14 | 1.10 | 2.28 | 2 | 0.187 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 13.71 | 14 | 11.34 | 11.00 | 25.05 | 25 | 0.129 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 10.41 | 10 | 3.85 | 3.80 | 14.25 | 14 | 0.151 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 6.67 | 7 | 3.55 | 3.60 | 10.22 | 10 | 0.21 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 7.21 | 7 | 3.88 | 3.90 | 11.09 | 11 | 0.0722 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 9.76 | 10 | 6.46 | 6.50 | 16.21 | 16 | 0.119 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 10.25 | 10 | 5.50 | 5.50 | 15.75 | 16 | 0.119 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | 1.25 | 1.30 | 1.25 | 1 | | | | 1 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 6.49 | 7 | 4.46 | 4.50 | 10.96 | 11 | 0.199 | 1 | 0.199 | 1 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 4.80 | 5 | 2.08 | 2.10 | 6.88 | 7 | 0.188 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.81 | 3 | 1.21 | 1.20 | 4.02 | 4 | 0.184 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.68 | 3 | 1.14 | 1.10 | 3.81 | 4 | 0.134 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17.88 | 18 | 9.94 | 9.90 | 27.82 | 28 | 0.327 | 1 | 0.327 | 1 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 4.93 | 5 | 1.77 | 1.80 | 6.70 | 7 | 0.103 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.80 | 4 | 1.07 | 1.10 | 4.88 | 5 | 0.16 | 0 | 0 | 1 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 7.20 | 7 | 4.62 | 4.60 | 11.83 | 12 | 0.262 | 1 | 0.262 | 1 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 4.45 | 5 | 2.90 | 2.90 | 7.35 | 7 | 0.232 | 0 | 0 | 1 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 6.87 | 7 | 5.38 | 5.40 | 12.25 | 12 | 0.372 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 19.82 | 20 | 9.36 | 9.40 | 29.18 | 29 | 1.38 | 0 | 0 | 1 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 8.55 | 9 | 2.12 | 2.10 | 10.67 | 11 | 0.346 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 10.60 | 11 | 5.42 | 5.40 | 16.02 | 16 | 0.383 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 13.94 | 14 | 7.00 | 7.00 | 20.94 | 21 | 0.411 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 4.26 | 4 | 1.27 | 1.30 | 5.52 | 6 | 0.109 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 7.72 | 8 | 1.98 | 2.00 | 9.70 | 10 | 0.18 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 8.53 | 9 | 7.43 | 7.40 | 15.97 | 16 | 0.193 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 6.26 | 6 | 1.25 | 1.30 | 7.51 | 8 | 0.389 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 11.15 | 11 | 6.77 | 6.80 | 17.92 | 18 | 0.187 | 1 | 0.187 | 1 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 5.49 | 6 | 3.17 | 3.20 | 8.66 | 9 | 0.212 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 12.34 | 12 | 7.73 | 7.70 | 20.07 | 20 | 0.186 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 12.47 | 12 | 6.98 | 7.00 | 19.45 | 19 | 0.16 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | | | | | | | 1 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 11.22 | 11 | 6.91 | 6.90 | 18.14 | 18 | 0.178 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 7.99 | 8 | 8.13 | 8.10 | 16.12 | 16 | 0.244 | 0 | 0 | 1 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 16.26 | 16 | 5.45 | 5.40 | 21.71 | 22 | 0.247 | 1 | 0.247 | 1 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 17.53 | 18 | 4.71 | 4.70 | 22.25 | 22 | 0.59 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 18.25 | 18 | 6.74 | 6.70 | 24.99 | 25 | 0.543 | 1 | 0.543 | 1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Mamm PCDD/PCDF TEQ | Mamm PCDD/PCDF TEQ (2 sig figs) | Mamm DL-PCB TEQ | Mamm DL-PCB TEQ (2 sig figs) | Mamm Total TEQ | Mamm Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 4.63 | 5 | 1.11 | 1.10 | 5.74 | 6 | 0.443 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 23.64 | 24 | 4.63 | 4.60 | 28.27 | 28 | 0.179 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 14.29 | 14 | 3.41 | 3.40 | 17.70 | 18 | 1.81 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 5.83 | 6 | 1.74 | 1.70 | 7.57 | 8 | 0.322 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6.76 | 7 | 2.07 | 2.10 | 8.84 | 9 | 0.916 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 18.12 | 18 | 3.46 | 3.50 | 21.58 | 22 | 0.229 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 11.06 | 11 | 3.94 | 3.90 | 15.01 | 15 | 0.641 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 9.22 | 9 | 3.41 | 3.40 | 12.63 | 13 | 5.48 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.71 | 1 | 1.20 | 1.20 | 1.91 | 2 | 0.874 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6.98 | 7 | 4.49 | 4.50 | 11.47 | 11 | 0.549 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 46.20 | 46 | 2.65 | 2.60 | 48.85 | 49 | 0.518 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | 2.39 | 2.40 | 2.39 | 2 | | | | 1 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 6.38 | 6 | 5.35 | 5.30 | 11.73 | 12 | 0.914 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8.37 | 8 | 5.87 | 5.90 | 14.24 | 14 | 0.54 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4.85 | 5 | 3.42 | 3.40 | 8.27 | 8 | 0.765 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 8.40 | 8 | 3.41 | 3.40 | 11.81 | 12 | 0.533 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 10.83 | 11 | 3.05 | 3.10 | 13.88 | 14 | 0.717 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 5.04 | 5 | 1.60 | 1.60 | 6.64 | 7 | 1.03 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 9.72 | 10 | 2.55 | 2.60 | 12.27 | 12 | 0.632 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 25.15 | 25 | 9.40 | 9.40 | 34.56 | 35 | 0.97 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 17.60 | 18 | 7.26 | 7.30 | 24.86 | 25 | 1.47 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 9.09 | 9 | 2.85 | 2.90 | 11.94 | 12 | 0.733 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 20.46 | 20 | 7.41 | 7.40 | 27.87 | 28 | 13.9 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 5.72 | 6 | 1.81 | 1.80 | 7.53 | 8 | 1.08 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 6.14 | 6 | 3.54 | 3.50 | 9.69 | 10 | 0.168 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6.26 | 6 | 3.64 | 3.60 | 9.91 | 10 | 0.183 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 2.92 | 3 | 0.36 | 0.36 | 3.29 | 3 | 0.25 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.42 | 0 | | | 0.42 | 0 | 0.14 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1.45 | 2 | 0.16 | 0.16 | 1.61 | 2 | 0.15 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.02 | 0 | | | 0.02 | 0 | 0.092 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 4.45 | 4 | 0.71 | 0.71 | 5.16 | 5 | 0.22 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1.41 | 1 | 0.04 | 0.04 | 1.45 | 2 | 0.126 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 1.81 | 2 | 1.43 | 1.40 | 3.24 | 3 | 0.376 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 7.40 | 7 | 1.88 | 1.90 | 9.28 | 9 | 0.39 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1.54 | 2 | 0.07 | 0.07 | 1.60 | 2 | 0.123 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | | | | | | | 1 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 2.76 | 3 | 0.40 | 0.40 | 3.16 | 3 | 0.6 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1.66 | 2 | 0.47 | 0.47 | 2.13 | 2 | 0.24 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.26 | 0 | 0.10 | 0.10 | 0.35 | 0 | 0.2 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 20.34 | 20 | 9.59 | 9.60 | 29.93 | 30 | 0.73 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.09 | 0 | | | 0.09 | 0 | 0.21 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.10 | 0 | | | 0.10 | 0 | 0.18 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1.13 | 1 | 0.17 | 0.17 | 1.29 | 1 | 0.101 | 0 | 0 | 1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Mamm PCDD/PCDF TEQ | Mamm PCDD/PCDF TEQ (2 sig figs) | Mamm DL-PCB TEQ | Mamm DL-PCB TEQ (2 sig figs) | Mamm Total TEQ | Mamm Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.86 | 1 | 0.05 | 0.05 | 0.91 | 1 | 0.135 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 21.81 | 22 | 6.75 | 6.80 | 28.56 | 29 | 0.75 | 1 | 0.75 | 1 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | | | | | | | 1 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 8.00 | 8 | 1.90 | 1.90 | 9.89 | 10 | 0.29 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 2.13 | 2 | 0.20 | 0.20 | 2.33 | 2 | 0.4 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 4.08 | 4 | 0.59 | 0.59 | 4.67 | 5 | 0.38 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | | | | | | | 1 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 4.24 | 4 | 1.62 | 1.60 | 5.86 | 6 | 0.117 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 7.12 | 7 | 6.73 | 6.70 | 13.85 | 14 | 0.428 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 11.14 | 11 | 2.62 | 2.60 | 13.76 | 14 | 0.314 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 4.36 | 4 | 1.21 | 1.20 | 5.57 | 6 | 0.752 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3.79 | 4 | 0.98 | 0.98 | 4.77 | 5 | 0.14 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 1.58 | 2 | 0.75 | 0.75 | 2.33 | 2 | 0.155 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 25.28 | 25 | 7.96 | 8.00 | 33.24 | 33 | 0.441 | 1 | 0.441 | 1 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 2.11 | 2 | 0.44 | 0.44 | 2.55 | 3 | 0.106 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.56 | 3 | 2.01 | 2.00 | 4.57 | 5 | 0.106 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 4.79 | 5 | 2.45 | 2.40 | 7.24 | 7 | 0.136 | 1 | 0.136 | 1 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 10.58 | 11 | 3.92 | 3.90 | 14.50 | 15 | 0.137 | 1 | 0.137 | 1 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 5.81 | 6 | 8.27 | 8.30 | 14.09 | 14 | 0.147 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7.53 | 8 | 3.32 | 3.30 | 10.85 | 11 | 0.126 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 1.51 | 2 | 1.25 | 1.20 | 2.76 | 3 | 0.321 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.53 | 1 | 0.40 | 0.40 | 0.93 | 1 | 0.308 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 1.71 | 2 | 0.54 | 0.54 | 2.26 | 2 | 0.455 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 1.37 | 1 | 1.18 | 1.20 | 2.55 | 3 | 0.165 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.98 | 1 | 0.93 | 0.93 | 1.91 | 2 | 0.195 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.79 | 1 | 0.62 | 0.62 | 1.41 | 1 | 0.116 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.90 | 1 | 0.84 | 0.84 | 1.75 | 2 | 0.138 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.16 | 0 | 0.17 | 0.17 | 0.32 | 0 | 0.187 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 1.39 | 1 | 1.75 | 1.70 | 3.13 | 3 | 0.129 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 1.14 | 1 | 0.57 | 0.57 | 1.71 | 2 | 0.151 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.72 | 1 | 0.55 | 0.55 | 1.27 | 1 | 0.21 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.98 | 1 | 0.61 | 0.61 | 1.59 | 2 | 0.0722 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 1.09 | 1 | 1.00 | 1.00 | 2.08 | 2 | 0.119 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 1.07 | 1 | 0.82 | 0.82 | 1.89 | 2 | 0.119 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | 0.18 | 0.18 | 0.18 | 0 | | | | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.71 | 1 | 0.69 | 0.69 | 1.39 | 1 | 0.199 | 1 | 0.199 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.59 | 1 | 0.32 | 0.32 | 0.91 | 1 | 0.188 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.44 | 0 | 0.18 | 0.18 | 0.62 | 1 | 0.184 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.37 | 0 | 0.15 | 0.15 | 0.52 | 1 | 0.134 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 1.60 | 2 | 1.54 | 1.50 | 3.14 | 3 | 0.327 | 1 | 0.327 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.66 | 1 | 0.27 | 0.27 | 0.93 | 1 | 0.103 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.39 | 0 | 0.16 | 0.16 | 0.55 | 1 | 0.16 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.75 | 1 | 0.71 | 0.71 | 1.46 | 2 | 0.262 | 1 | 0.262 | 1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Mamm PCDD/PCDF TEQ | Mamm PCDD/PCDF TEQ (2 sig figs) | Mamm DL-PCB TEQ | Mamm DL-PCB TEQ (2 sig figs) | Mamm Total TEQ | Mamm Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.89 | 1 | 0.45 | 0.45 | 1.34 | 1 | 0.232 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.68 | 1 | 0.83 | 0.83 | 1.51 | 2 | 0.372 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 1.74 | 2 | 1.46 | 1.50 | 3.20 | 3 | 1.38 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.88 | 1 | 0.29 | 0.29 | 1.17 | 1 | 0.346 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 1.59 | 2 | 0.82 | 0.82 | 2.42 | 2 | 0.383 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 1.11 | 1 | 1.08 | 1.10 | 2.19 | 2 | 0.411 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.45 | 0 | 0.18 | 0.18 | 0.63 | 1 | 0.109 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.71 | 1 | 0.30 | 0.30 | 1.00 | 1 | 0.18 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.81 | 1 | 1.12 | 1.10 | 1.93 | 2 | 0.193 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 1.34 | 1 | 0.17 | 0.17 | 1.51 | 2 | 0.389 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.97 | 1 | 1.03 | 1.00 | 2.00 | 2 | 0.187 | 1 | 0.187 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.61 | 1 | 0.48 | 0.48 | 1.09 | 1 | 0.212 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 1.20 | 1 | 1.21 | 1.20 | 2.41 | 2 | 0.186 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 1.10 | 1 | 1.12 | 1.10 | 2.22 | 2 | 0.16 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | | | | | | | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 1.10 | 1 | 1.07 | 1.10 | 2.17 | 2 | 0.178 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.87 | 1 | 1.30 | 1.30 | 2.17 | 2 | 0.244 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 1.45 | 2 | 0.85 | 0.85 | 2.30 | 2 | 0.247 | 1 | 0.247 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 1.91 | 2 | 0.67 | 0.67 | 2.58 | 3 | 0.59 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 1.61 | 2 | 1.11 | 1.10 | 2.72 | 3 | 0.543 | 1 | 0.543 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 1.65 | 2 | 0.16 | 0.16 | 1.81 | 2 | 0.443 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 4.01 | 4 | 0.69 | 0.69 | 4.71 | 5 | 0.179 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 2.75 | 3 | 0.50 | 0.50 | 3.25 | 3 | 1.81 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 1.72 | 2 | 0.25 | 0.25 | 1.98 | 2 | 0.322 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 1.57 | 2 | 0.31 | 0.31 | 1.88 | 2 | 0.916 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 1.31 | 1 | 0.53 | 0.53 | 1.84 | 2 | 0.229 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 1.15 | 1 | 0.59 | 0.59 | 1.73 | 2 | 0.641 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 2.83 | 3 | 0.50 | 0.50 | 3.33 | 3 | 5.48 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.72 | 1 | 0.16 | 0.16 | 0.88 | 1 | 0.874 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 1.08 | 1 | 0.65 | 0.65 | 1.72 | 2 | 0.549 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 3.37 | 3 | 0.40 | 0.40 | 3.76 | 4 | 0.518 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | 0.37 | 0.37 | 0.37 | 0 | | | | 1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 2.05 | 2 | 0.82 | 0.82 | 2.87 | 3 | 0.914 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 2.09 | 2 | 0.85 | 0.85 | 2.94 | 3 | 0.54 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 2.09 | 2 | 0.52 | 0.52 | 2.61 | 3 | 0.765 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 1.97 | 2 | 0.50 | 0.50 | 2.46 | 3 | 0.533 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 1.04 | 1 | 0.45 | 0.45 | 1.49 | 2 | 0.717 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.99 | 1 | 0.23 | 0.23 | 1.22 | 1 | 1.03 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.83 | 1 | 0.35 | 0.35 | 1.18 | 1 | 0.632 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 4.88 | 5 | 1.46 | 1.50 | 6.34 | 6 | 0.97 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 6.17 | 6 | 1.13 | 1.10 | 7.30 | 7 | 1.47 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.91 | 1 | 0.40 | 0.40 | 1.32 | 1 | 0.733 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 5.33 | 5 | 1.11 | 1.10 | 6.44 | 6 | 13.9 | 0 | 0 | 1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Mamm PCDD/PCDF TEQ | Mamm PCDD/PCDF TEQ (2 sig figs) | Mamm DL-PCB TEQ | Mamm DL-PCB TEQ (2 sig figs) | Mamm Total TEQ | Mamm Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 1.71 | 2 | 0.26 | 0.26 | 1.97 | 2 | 1.08 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.58 | 1 | 0.53 | 0.53 | 1.11 | 1 | 0.168 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 3.14 | 3 | 0.54 | 0.54 | 3.68 | 4 | 0.183 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.43 | 0 | 0.04 | 0.04 | 0.47 | 0 | 0.25 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.12 | 0 | | | 0.12 | 0 | 0.14 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.23 | 0 | 0.04 | 0.04 | 0.27 | 0 | 0.15 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.05 | 0 | | | 0.05 | 0 | 0.092 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.50 | 1 | 0.09 | 0.09 | 0.58 | 1 | 0.22 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.27 | 0 | 0.01 | 0.01 | 0.28 | 0 | 0.126 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 1.00 | 1 | 0.21 | 0.21 | 1.21 | 1 | 0.376 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 1.31 | 1 | 0.27 | 0.27 | 1.58 | 2 | 0.39 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.30 | 0 | 0.01 | 0.01 | 0.31 | 0 | 0.123 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | | | | | | | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.97 | 1 | 0.06 | 0.06 | 1.03 | 1 | 0.6 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.39 | 0 | 0.06 | 0.06 | 0.45 | 0 | 0.24 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.25 | 0 | 0.02 | 0.02 | 0.27 | 0 | 0.2 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 9.80 | 10 | 1.46 | 1.50 | 11.26 | 11 | 0.73 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.18 | 0 | | | 0.18 | 0 | 0.21 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.12 | 0 | | | 0.12 | 0 | 0.18 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.21 | 0 | 0.04 | 0.04 | 0.24 | 0 | 0.101 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.21 | 0 | 0.01 | 0.01 | 0.22 | 0 | 0.135 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 6.17 | 6 | 1.02 | 1.00 | 7.18 | 7 | 0.75 | 1 | 0.75 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | | | | | | | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2.91 | 3 | 0.30 | 0.30 | 3.20 | 3 | 0.29 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.79 | 1 | 0.04 | 0.05 | 0.83 | 1 | 0.4 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1.61 | 2 | 0.09 | 0.09 | 1.69 | 2 | 0.38 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | | | | | | | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.81 | 1 | 0.25 | 0.25 | 1.06 | 1 | 0.117 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 7.41 | 7 | 0.95 | 0.95 | 8.35 | 8 | 0.428 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.81 | 1 | 0.39 | 0.39 | 1.20 | 1 | 0.314 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.98 | 1 | 0.18 | 0.18 | 1.16 | 1 | 0.752 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.83 | 1 | 0.14 | 0.14 | 0.97 | 1 | 0.14 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.74 | 1 | 0.10 | 0.10 | 0.83 | 1 | 0.155 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 2.57 | 3 | 1.21 | 1.20 | 3.78 | 4 | 0.441 | 1 | 0.441 | 1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.20 | 0 | 0.06 | 0.06 | 0.26 | 0 | 0.106 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.28 | 0 | 0.30 | 0.30 | 0.58 | 1 | 0.106 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.48 | 0 | 0.37 | 0.37 | 0.84 | 1 | 0.136 | 1 | 0.136 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.85 | 1 | 0.60 | 0.60 | 1.45 | 2 | 0.137 | 1 | 0.137 | 1 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.85 | 1 | 1.29 | 1.30 | 2.14 | 2 | 0.147 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.77 | 1 | 0.48 | 0.48 | 1.25 | 1 | 0.126 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 1.19 | 1 | 0.31 | 0.31 | 1.50 | 2 | 0.321 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.31 | 0 | 0.10 | 0.10 | 0.41 | 0 | 0.308 | 0 | 0 | 1 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 1.44 | 1 | 0.14 | 0.14 | 1.58 | 2 | 0.455 | 0 | 0 | 1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Mamm PCDD/PCDF TEQ | Mamm PCDD/PCDF TEQ (2 sig figs) | Mamm DL-PCB TEQ | Mamm DL-PCB TEQ (2 sig figs) | Mamm Total TEQ | Mamm Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 1.11 | 1 | 0.31 | 0.31 | 1.42 | 1 | 0.165 | 0 | 0 | 1 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.73 | 1 | 0.24 | 0.24 | 0.97 | 1 | 0.195 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.59 | 1 | 0.16 | 0.16 | 0.75 | 1 | 0.116 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.63 | 1 | 0.22 | 0.22 | 0.85 | 1 | 0.138 | 0 | 0 | 1 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.09 | 0 | 0.04 | 0.04 | 0.13 | 0 | 0.187 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 1.07 | 1 | 0.45 | 0.45 | 1.52 | 2 | 0.129 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.83 | 1 | 0.14 | 0.14 | 0.97 | 1 | 0.151 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.55 | 1 | 49.79 | 50.00 | 50.34 | 50 | 0.21 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.68 | 1 | 52.90 | 53.00 | 53.58 | 54 | 0.0722 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.80 | 1 | 87.13 | 87.00 | 87.94 | 88 | 0.119 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.82 | 1 | 62.26 | 62.00 | 63.08 | 63 | 0.119 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | 0.05 | 0.05 | 0.05 | 0 | | | | 1 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.58 | 1 | 0.18 | 0.18 | 0.76 | 1 | 0.199 | 1 | 0.199 | 1 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.31 | 0 | 0.09 | 0.09 | 0.40 | 0 | 0.188 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.24 | 0 | 0.05 | 0.05 | 0.29 | 0 | 0.184 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.21 | 0 | 0.04 | 0.04 | 0.25 | 0 | 0.134 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 1.26 | 1 | 0.38 | 0.38 | 1.65 | 2 | 0.327 | 1 | 0.327 | 1 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.49 | 0 | 0.07 | 0.07 | 0.56 | 1 | 0.103 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.28 | 0 | 0.04 | 0.04 | 0.32 | 0 | 0.16 | 0 | 0 | 1 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.57 | 1 | 0.18 | 0.18 | 0.75 | 1 | 0.262 | 1 | 0.262 | 1 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.76 | 1 | 0.11 | 0.11 | 0.88 | 1 | 0.232 | 0 | 0 | 1 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.62 | 1 | 0.21 | 0.21 | 0.83 | 1 | 0.372 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 1.36 | 1 | 0.36 | 0.36 | 1.72 | 2 | 1.38 | 0 | 0 | 1 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.82 | 1 | 0.08 | 0.08 | 0.90 | 1 | 0.346 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 1.34 | 1 | 0.21 | 0.21 | 1.54 | 2 | 0.383 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.76 | 1 | 0.27 | 0.27 | 1.03 | 1 | 0.411 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.33 | 0 | 0.05 | 0.05 | 0.37 | 0 | 0.109 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.55 | 1 | 0.08 | 0.08 | 0.63 | 1 | 0.18 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.60 | 1 | 0.29 | 0.29 | 0.89 | 1 | 0.193 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.73 | 1 | 0.04 | 0.04 | 0.77 | 1 | 0.389 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.80 | 1 | 0.26 | 0.26 | 1.05 | 1 | 0.187 | 1 | 0.187 | 1 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.45 | 0 | 0.12 | 0.12 | 0.57 | 1 | 0.212 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.90 | 1 | 0.31 | 0.31 | 1.21 | 1 | 0.186 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.94 | 1 | 0.30 | 0.30 | 1.24 | 1 | 0.16 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | | | | | | | 1 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.82 | 1 | 0.29 | 0.29 | 1.10 | 1 | 0.178 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.60 | 1 | 0.34 | 0.34 | 0.94 | 1 | 0.244 | 0 | 0 | 1 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 1.13 | 1 | 0.22 | 0.22 | 1.35 | 1 | 0.247 | 1 | 0.247 | 1 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 1.71 | 2 | 0.17 | 0.17 | 1.88 | 2 | 0.59 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 1.45 | 2 | 0.27 | 0.27 | 1.72 | 2 | 0.543 | 1 | 0.543 | 1 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 1.46 | 2 | 0.26 | 0.26 | 1.72 | 2 | 0.443 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 2.51 | 3 | 0.17 | 0.17 | 2.69 | 3 | 0.179 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 2.60 | 3 | 0.13 | 0.13 | 2.73 | 3 | 1.81 | 0 | 0 | 1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Mamm PCDD/PCDF TEQ | Mamm PCDD/PCDF TEQ (2 sig figs) | Mamm DL-PCB TEQ | Mamm DL-PCB TEQ (2 sig figs) | Mamm Total TEQ | Mamm Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 1.50 | 2 | 0.06 | 0.06 | 1.56 | 2 | 0.322 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 1.35 | 1 | 0.08 | 0.08 | 1.43 | 1 | 0.916 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 1.47 | 2 | 0.14 | 0.14 | 1.61 | 2 | 0.229 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.94 | 1 | 0.15 | 0.15 | 1.09 | 1 | 0.641 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 2.28 | 2 | 0.13 | 0.13 | 2.41 | 2 | 5.48 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.53 | 1 | 0.04 | 0.04 | 0.57 | 1 | 0.874 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.82 | 1 | 0.17 | 0.17 | 0.99 | 1 | 0.549 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 3.34 | 3 | 0.10 | 0.10 | 3.44 | 3 | 0.518 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | 0.10 | 0.10 | 0.10 | 0 | | | | 1 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 1.78 | 2 | 0.20 | 0.20 | 1.98 | 2 | 0.914 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.23 | 1 | 0.22 | 0.22 | 1.46 | 2 | 0.54 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 1.89 | 2 | 0.14 | 0.14 | 2.03 | 2 | 0.765 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 1.66 | 2 | 0.13 | 0.13 | 1.78 | 2 | 0.533 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.90 | 1 | 0.12 | 0.12 | 1.02 | 1 | 0.717 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.76 | 1 | 0.06 | 0.06 | 0.82 | 1 | 1.03 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.78 | 1 | 0.09 | 0.09 | 0.87 | 1 | 0.632 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 4.86 | 5 | 0.36 | 0.36 | 5.22 | 5 | 0.97 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 6.31 | 6 | 0.29 | 0.29 | 6.60 | 7 | 1.47 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.76 | 1 | 0.10 | 0.10 | 0.86 | 1 | 0.733 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 5.91 | 6 | 0.28 | 0.28 | 6.19 | 6 | 13.9 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 1.69 | 2 | 0.07 | 0.07 | 1.76 | 2 | 1.08 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.49 | 0 | 0.14 | 0.14 | 0.62 | 1 | 0.168 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 2.08 | 2 | 0.14 | 0.14 | 2.22 | 2 | 0.183 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.30 | 0 | 0.01 | 0.01 | 0.31 | 0 | 0.25 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.06 | 0 | | | 0.06 | 0 | 0.14 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.14 | 0 | 0.01 | 0.01 | 0.15 | 0 | 0.15 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.01 | 0 | | | 0.01 | 0 | 0.092 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.36 | 0 | 8.40 | 8.40 | 8.76 | 9 | 0.22 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.14 | 0 | 0.00 | 0.00 | 0.15 | 0 | 0.126 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.69 | 1 | 0.05 | 0.05 | 0.75 | 1 | 0.376 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.96 | 1 | 0.07 | 0.07 | 1.03 | 1 | 0.39 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.19 | 0 | 0.01 | 0.01 | 0.20 | 0 | 0.123 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | | | | | | | 1 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.73 | 1 | 6.22 | 6.20 | 6.95 | 7 | 0.6 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.28 | 0 | 7.77 | 7.80 | 8.05 | 8 | 0.24 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.13 | 0 | 0.01 | 0.01 | 0.15 | 0 | 0.2 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 9.94 | 10 | 136.87 | 140.00 | 146.81 | 150 | 0.73 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.06 | 0 | | | 0.06 | 0 | 0.21 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.06 | 0 | | | 0.06 | 0 | 0.18 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.10 | 0 | 0.05 | 0.05 | 0.15 | 0 | 0.101 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.09 | 0 | 0.00 | 0.00 | 0.09 | 0 | 0.135 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 6.57 | 7 | 125.35 | 130.00 | 131.92 | 130 | 0.75 | 1 | 0.75 | 1 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | | | | | | | 1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Mamm PCDD/PCDF TEQ | Mamm PCDD/PCDF TEQ (2 sig figs) | Mamm DL-PCB TEQ | Mamm DL-PCB TEQ (2 sig figs) | Mamm Total TEQ | Mamm Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2.85 | 3 | 28.93 | 29.00 | 31.77 | 32 | 0.29 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.71 | 1 | 0.04 | 0.04 | 0.75 | 1 | 0.4 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1.20 | 1 | 9.70 | 9.70 | 10.89 | 11 | 0.38 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | | | | | | | 1 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.67 | 1 | 0.07 | 0.07 | 0.74 | 1 | 0.117 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 7.58 | 8 | 0.24 | 0.24 | 7.83 | 8 | 0.428 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.82 | 1 | 0.10 | 0.10 | 0.92 | 1 | 0.314 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.73 | 1 | 0.05 | 0.05 | 0.78 | 1 | 0.752 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.61 | 1 | 0.04 | 0.04 | 0.65 | 1 | 0.14 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.46 | 0 | 0.03 | 0.03 | 0.49 | 0 | 0.155 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 2.14 | 2 | 0.30 | 0.30 | 2.44 | 2 | 0.441 | 1 | 0.441 | 1 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.17 | 0 | 0.02 | 0.02 | 0.18 | 0 | 0.106 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.23 | 0 | 0.07 | 0.08 | 0.30 | 0 | 0.106 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.41 | 0 | 0.10 | 0.10 | 0.50 | 1 | 0.136 | 1 | 0.136 | 1 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.88 | 1 | 0.15 | 0.15 | 1.03 | 1 | 0.137 | 1 | 0.137 | 1 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.51 | 1 | 0.32 | 0.32 | 0.83 | 1 | 0.147 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.61 | 1 | 0.12 | 0.12 | 0.73 | 1 | 0.126 | 0 | 0 | 1 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.02 | 0 | | | 0.02 | 0 | 0.097 | 0 | 0 | 1 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 13.81 | 14 | | | 13.81 | 14 | 1.1 | 0 | 0 | 1 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.22 | 0 | | | 0.22 | 0 | 0.17 | 0 | 0 | 1 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.97 | 6 | 2.31 | 2.30 | 8.29 | 8 | 0.247 | 0 | 0 | 1 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 1.05 | 1 | 0.75 | 0.75 | 1.80 | 2 | 0.104 | 0 | 0 | 1 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.36 | 0 | 0.63 | 0.63 | 0.99 | 1 | 0.103 | 0 | 0 | 1 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.60 | 2 | 2.32 | 2.30 | 3.92 | 4 | 0.147 | 1 | 0.147 | 1 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.35 | 6 | 2.41 | 2.40 | 8.76 | 9 | 0.5 | 1 | 0.5 | 1 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.45 | 3 | 1.81 | 1.80 | 4.27 | 4 | 0.2 | 0 | 0 | 1 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.89 | 2 | 1.31 | 1.30 | 3.20 | 3 | 0.103 | 0 | 0 | 1 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 0.21 | 0.21 | 0.21 | 0.21 | | | | 1 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.03 | 0.04 | 0.03 | 0.04 | | | | 1 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 0.56 | 0.56 | 0.56 | 0.56 | | | | 1 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.03 | 0 | | | 0.03 | 0 | 0.097 | 0 | 0 | 1 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 68.72 | 69 | | | 68.72 | 69 | 1.1 | 0 | 0 | 1 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.84 | 1 | | | 0.84 | 1 | 0.17 | 0 | 0 | 1 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 32.03 | 32 | 5.34 | 5.30 | 37.37 | 37 | 0.247 | 0 | 0 | 1 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 5.58 | 6 | 1.61 | 1.60 | 7.19 | 7 | 0.104 | 0 | 0 | 1 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.40 | 1 | 1.56 | 1.60 | 2.96 | 3 | 0.103 | 0 | 0 | 1 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 8.71 | 9 | 5.01 | 5.00 | 13.71 | 14 | 0.147 | 1 | 0.147 | 1 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 34.33 | 34 | 5.69 | 5.70 | 40.02 | 40 | 0.5 | 1 | 0.5 | 1 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.65 | 14 | 4.12 | 4.10 | 17.77 | 18 | 0.2 | 0 | 0 | 1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.39 | 11 | 3.04 | 3.00 | 14.42 | 14 | 0.103 | 0 | 0 | 1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 0.37 | 0.37 | 0.37 | 0.37 | | | | 1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Mamm PCDD/PCDF TEQ | Mamm PCDD/PCDF TEQ (2 sig figs) | Mamm DL-PCB TEQ | Mamm DL-PCB TEQ (2 sig figs) | Mamm Total TEQ | Mamm Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.06 | 0.06 | 0.06 | 0.06 | | | | 1 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 1.28 | 1.30 | 1.28 | 1.30 | | | | 1 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.00 | 0 | | | 0.00 | 0 | 0.097 | 0 | 0 | 1 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 11.66 | 12 | | | 11.66 | 12 | 1.1 | 0 | 0 | 1 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.16 | 0 | | | 0.16 | 0 | 0.17 | 0 | 0 | 1 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 6.39 | 6 | 3.86 | 3.90 | 10.25 | 10 | 0.247 | 0 | 0 | 1 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 1.10 | 1 | 1.20 | 1.20 | 2.31 | 2 | 0.104 | 0 | 0 | 1 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.22 | 0 | 1.06 | 1.10 | 1.27 | 1 | 0.103 | 0 | 0 | 1 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.69 | 2 | 3.78 | 3.80 | 5.47 | 6 | 0.147 | 1 | 0.147 | 1 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.60 | 7 | 4.06 | 4.10 | 10.66 | 11 | 0.5 | 1 | 0.5 | 1 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.68 | 3 | 3.01 | 3.00 | 5.69 | 6 | 0.2 | 0 | 0 | 1 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.27 | 2 | 2.17 | 2.20 | 4.45 | 4 | 0.103 | 0 | 0 | 1 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 0.34 | 0.34 | 0.34 | 0.34 | | | | 1 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.06 | 0.06 | 0.06 | 0.06 | | | | 1 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 0.94 | 0.94 | 0.94 | 0.94 | | | | 1 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.35 | 0 | | | 0.35 | 0 | 0.097 | 0 | 0 | 1 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 34.98 | 35 | | | 34.98 | 35 | 1.1 | 0 | 0 | 1 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2.14 | 2 | | | 2.14 | 2 | 0.17 | 0 | 0 | 1 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 21.80 | 22 | 89.46 | 89.00 | 111.26 | 110 | 0.247 | 0 | 0 | 1 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2.35 | 2 | 27.66 | 28.00 | 30.01 | 30 | 0.104 | 0 | 0 | 1 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.82 | 1 | 24.54 | 25.00 | 25.36 | 25 | 0.103 | 0 | 0 | 1 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 3.63 | 4 | 87.11 | 87.00 | 90.74 | 91 | 0.147 | 1 | 0.147 | 1 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 22.24 | 22 | 94.05 | 94.00 | 116.29 | 120 | 0.5 | 1 | 0.5 | 1 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 5.80 | 6 | 69.49 | 69.00 | 75.29 | 75 | 0.2 | 0 | 0 | 1 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 4.65 | 5 | 50.26 | 50.00 | 54.91 | 55 | 0.103 | 0 | 0 | 1 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 8.01 | 8.00 | 8.01 | 8.00 | | | | 1 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 1.36 | 1.40 | 1.36 | 1.40 | | | | 1 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 21.87 | 22.00 | 21.87 | 22.00 | | | | 1 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.00 | 0 | | | 0.00 | 0 | 0.097 | 0 | 0 | 1 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 129.19 | 130 | | | 129.19 | 130 | 1.1 | 0 | 0 | 1 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 1.47 | 2 | | | 1.47 | 2 | 0.17 | 0 | 0 | 1 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 70.07 | 70 | 76.98 | 77.00 | 147.05 | 150 | 0.247 | 0 | 0 | 1 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 12.51 | 13 | 23.49 | 23.00 | 35.99 | 36 | 0.104 | 0 | 0 | 1 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.40 | 2 | 20.90 | 21.00 | 23.30 | 23 | 0.103 | 0 | 0 | 1 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 19.61 | 20 | 74.62 | 75.00 | 94.23 | 94 | 0.147 | 1 | 0.147 | 1 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 74.08 | 74 | 80.94 | 81.00 | 155.02 | 160 | 0.5 | 1 | 0.5 | 1 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 30.03 | 30 | 59.64 | 60.00 | 89.67 | 90 | 0.2 | 0 | 0 | 1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 25.02 | 25 | 43.01 | 43.00 | 68.04 | 68 | 0.103 | 0 | 0 | 1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 7.32 | 7.30 | 7.32 | 7.30 | | | | 1 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 1.24 | 1.20 | 1.24 | 1.20 | | | | 1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Mamm PCDD/PCDF TEQ | Mamm PCDD/PCDF TEQ (2 sig figs) | Mamm DL-PCB TEQ | Mamm DL-PCB TEQ (2 sig figs) | Mamm Total TEQ | Mamm Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 19.04 | 19.00 | 19.04 | 19.00 | | | | 1 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.00 | 0 | | | 0.00 | 0 | 0.097 | 0 | 0 | 1 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 63.79 | 64 | | | 63.79 | 64 | 1.1 | 0 | 0 | 1 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.66 | 1 | | | 0.66 | 1 | 0.17 | 0 | 0 | 1 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 30.22 | 30 | 63.95 | 64.00 | 94.17 | 94 | 0.247 | 0 | 0 | 1 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 5.76 | 6 | 19.48 | 19.00 | 25.24 | 25 | 0.104 | 0 | 0 | 1 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.90 | 2 | 17.39 | 17.00 | 19.29 | 19 | 0.103 | 0 | 0 | 1 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 40.98 | 41 | 61.89 | 62.00 | 102.86 | 100 | 0.147 | 1 | 0.147 | 1 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 143.44 | 140 | 67.27 | 67.00 | 210.71 | 210 | 0.5 | 1 | 0.5 | 1 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 12.42 | 12 | 49.52 | 50.00 | 61.94 | 62 | 0.2 | 0 | 0 | 1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 9.74 | 10 | 35.88 | 36.00 | 45.62 | 46 | 0.103 | 0 | 0 | 1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 6.05 | 6.10 | 6.05 | 6.10 | | | | 1 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 1.02 | 1.00 | 1.02 | 1.00 | | | | 1 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 15.82 | 16.00 | 15.82 | 16.00 | | | | 1 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | | | | | | | 0.097 | 0 | 0 | 1 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 81.00 | 81 | | | 81.00 | 81 | 1.1 | 0 | 0 | 1 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.79 | 1 | | | 0.79 | 1 | 0.17 | 0 | 0 | 1 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 39.43 | 39 | 109.80 | 110.00 | 149.23 | 150 | 0.247 | 0 | 0 | 1 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 7.44 | 7 | 33.28 | 33.00 | 40.71 | 41 | 0.104 | 0 | 0 | 1 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.43 | 2 | 29.93 | 30.00 | 32.36 | 32 | 0.103 | 0 | 0 | 1 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.07 | 12 | 105.84 | 110.00 | 117.91 | 120 | 0.147 | 1 | 0.147 | 1 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 42.44 | 42 | 115.61 | 120.00 | 158.05 | 160 | 0.5 | 1 | 0.5 | 1 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 16.10 | 16 | 84.93 | 85.00 | 101.03 | 100 | 0.2 | 0 | 0 | 1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 12.15 | 12 | 61.34 | 61.00 | 73.49 | 73 | 0.103 | 0 | 0 | 1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 10.35 | 10.00 | 10.35 | 10.00 | | | | 1 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 1.75 | 1.80 | 1.75 | 1.80 | | | | 1 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 27.18 | 27.00 | 27.18 | 27.00 | | | | 1 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.01 | 0 | | | 0.01 | 0 | 0.097 | 0 | 0 | 1 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.74 | 20 | | | 19.74 | 20 | 1.1 | 0 | 0 | 1 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.27 | 0 | | | 0.27 | 0 | 0.17 | 0 | 0 | 1 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 8.81 | 9 | 22.47 | 22.00 | 31.28 | 31 | 0.247 | 0 | 0 | 1 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 1.40 | 1 | 6.78 | 6.80 | 8.18 | 8 | 0.104 | 0 | 0 | 1 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.23 | 0 | 6.01 | 6.00 | 6.24 | 6 | 0.103 | 0 | 0 | 1 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 2.26 | 2 | 21.74 | 22.00 | 24.01 | 24 | 0.147 | 1 | 0.147 | 1 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 9.28 | 9 | 23.60 | 24.00 | 32.88 | 33 | 0.5 | 1 | 0.5 | 1 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 4.01 | 4 | 17.37 | 17.00 | 21.38 | 21 | 0.2 | 0 | 0 | 1 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3.47 | 4 | 12.47 | 12.00 | 15.94 | 16 | 0.103 | 0 | 0 | 1 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 2.29 | 2.30 | 2.29 | 2.30 | | | | 1 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.39 | 0.39 | 0.39 | 0.39 | | | | 1 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 5.63 | 5.60 | 5.63 | 5.60 | | | | 1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Mamm PCDD/PCDF TEQ | Mamm PCDD/PCDF TEQ (2 sig figs) | Mamm DL-PCB TEQ | Mamm DL-PCB TEQ (2 sig figs) | Mamm Total TEQ | Mamm Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.01 | 0 | | | 0.01 | 0 | 0.097 | 0 | 0 | 1 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 34.56 | 35 | | | 34.56 | 35 | 1.1 | 0 | 0 | 1 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.49 | 0 | | | 0.49 | 0 | 0.17 | 0 | 0 | 1 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 19.33 | 19 | 68.21 | 68.00 | 87.54 | 88 | 0.247 | 0 | 0 | 1 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2.97 | 3 | 20.63 | 21.00 | 23.61 | 24 | 0.104 | 0 | 0 | 1 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.25 | 0 | 18.57 | 19.00 | 18.82 | 19 | 0.103 | 0 | 0 | 1 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 5.36 | 5 | 65.71 | 66.00 | 71.07 | 71 | 0.147 | 1 | 0.147 | 1 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 22.27 | 22 | 71.83 | 72.00 | 94.10 | 94 | 0.5 | 1 | 0.5 | 1 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 8.43 | 8 | 52.74 | 53.00 | 61.17 | 61 | 0.2 | 0 | 0 | 1 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 7.65 | 8 | 38.08 | 38.00 | 45.73 | 46 | 0.103 | 0 | 0 | 1 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 6.48 | 6.50 | 6.48 | 6.50 | | | | 1 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 1.10 | 1.10 | 1.10 | 1.10 | | | | 1 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 16.91 | 17.00 | 16.91 | 17.00 | | | | 1 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.03 | 0 | | | 0.03 | 0 | 0.097 | 0 | 0 | 1 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 440.44 | 440 | | | 440.44 | 440 | 1.1 | 0 | 0 | 1 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 5.05 | 5 | | | 5.05 | 5 | 0.17 | 0 | 0 | 1 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 207.05 | 210 | 47.87 | 48.00 | 254.92 | 250 | 0.247 | 0 | 0 | 1 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 37.61 | 38 | 14.46 | 14.00 | 52.08 | 52 | 0.104 | 0 | 0 | 1 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 11.18 | 11 | 12.81 | 13.00 | 23.99 | 24 | 0.103 | 0 | 0 | 1 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 59.52 | 60 | 46.36 | 46.00 | 105.88 | 110 | 0.147 | 1 | 0.147 | 1 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 218.71 | 220 | 50.28 | 50.00 | 268.99 | 270 | 0.5 | 1 | 0.5 | 1 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 86.08 | 86 | 37.02 | 37.00 | 123.10 | 120 | 0.2 | 0 | 0 | 1 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 69.85 | 70 | 26.59 | 27.00 | 96.45 | 96 | 0.103 | 0 | 0 | 1 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 4.86 | 4.90 | 4.86 | 4.90 | | | | 1 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.82 | 0.82 | 0.82 | 0.82 | | | | 1 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 11.98 | 12.00 | 11.98 | 12.00 | | | | 1 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.00 | 0 | | | 0.00 | 0 | 0.097 | 0 | 0 | 1 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 116.79 | 120 | | | 116.79 | 120 | 1.1 | 0 | 0 | 1 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 1.38 | 1 | | | 1.38 | 1 | 0.17 | 0 | 0 | 1 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 64.21 | 64 | 66.98 | 67.00 | 131.19 | 130 | 0.247 | 0 | 0 | 1 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 11.26 | 11 | 20.38 | 20.00 | 31.64 | 32 | 0.104 | 0 | 0 | 1 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.10 | 2 | 18.18 | 18.00 | 20.29 | 20 | 0.103 | 0 | 0 | 1 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 39.28 | 39 | 64.81 | 65.00 | 104.09 | 100 | 0.147 | 1 | 0.147 | 1 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 142.44 | 140 | 70.44 | 70.00 | 212.88 | 210 | 0.5 | 1 | 0.5 | 1 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 27.42 | 27 | 51.85 | 52.00 | 79.28 | 79 | 0.2 | 0 | 0 | 1 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 23.44 | 23 | 37.50 | 38.00 | 60.94 | 61 | 0.103 | 0 | 0 | 1 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 6.38 | 6.40 | 6.38 | 6.40 | | | | 1 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 1.08 | 1.10 | 1.08 | 1.10 | | | | 1 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 16.58 | 17.00 | 16.58 | 17.00 | | | | 1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 1.11 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 0.705 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 0.977 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 0.61 | 1 | 0.61 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 0.618 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 0.507 | 1 | 0.507 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 0.597 | 1 | 0.597 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 0.148 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 0.555 | 1 | 0.555 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 0.456 | 1 | 0.456 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 0.57 | 1 | 0.57 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 0.46 | 1 | 0.46 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 0.481 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 0.6 | 1 | 0.6 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 0.5 | 1 | 0.5 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 0.464 | 1 | 0.464 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 0.349 | 1 | 0.349 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 0.283 | 1 | 0.283 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 1.32 | 1 | 1.32 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 0.38 | 1 | 0.38 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 0.42 | 1 | 0.42 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 0.909 | 1 | 0.909 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 0.6 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 0.614 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 0.985 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 0.502 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 1.06 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 0.676 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 0.378 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 0.64 | 1 | 0.64 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 0.547 | 1 | 0.547 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 1.16 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 0.436 | 1 | 0.436 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 0.401 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 0.677 | 1 | 0.677 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 0.727 | 1 | 0.727 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 0.585 | 1 | 0.585 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 1.36 | 1 | 1.36 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 1.09 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 1.56 | 1 | 1.56 | 1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 0.461 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 0.167 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 0.468 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 0.48 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 0.459 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 0.185 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 0.502 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 0.65 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 1.85 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 0.626 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 0.549 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 0.855 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 0.823 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 0.939 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 0.642 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 0.781 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 2.18 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 0.409 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 2.21 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 2.41 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 0.465 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 0.901 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 1.99 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 0.379 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 0.233 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 0.42 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 0.16 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 0.24 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 0.093 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 0.154 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 1.62 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 1.58 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 0.8 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 0.69 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 0.24 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 0.19 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 0.0989 | 0 | 0 | 1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 0.102 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 0.97 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 0.68 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 0.45 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 0.49 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 0.248 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 0.802 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 0.256 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 0.458 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 0.158 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 0.156 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 0.969 | 1 | 0.969 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 0.11 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 0.393 | 1 | 0.393 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 0.323 | 1 | 0.323 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 0.445 | 1 | 0.445 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 0.544 | 1 | 0.544 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 1.11 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 0.705 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 0.977 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 0.61 | 1 | 0.61 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 0.618 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 0.507 | 1 | 0.507 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 0.597 | 1 | 0.597 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 0.148 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 0.555 | 1 | 0.555 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 0.456 | 1 | 0.456 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 0.57 | 1 | 0.57 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 0.46 | 1 | 0.46 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 0.481 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 0.6 | 1 | 0.6 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 0.5 | 1 | 0.5 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 0.464 | 1 | 0.464 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 0.349 | 1 | 0.349 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 0.283 | 1 | 0.283 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 1.32 | 1 | 1.32 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 0.38 | 1 | 0.38 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 0.42 | 1 | 0.42 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 0.909 | 1 | 0.909 | 1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 0.6 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 0.614 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 0.985 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 0.502 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 1.06 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 0.676 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 0.378 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 0.64 | 1 | 0.64 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 0.547 | 1 | 0.547 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 1.16 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 0.436 | 1 | 0.436 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 0.401 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 0.677 | 1 | 0.677 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 0.727 | 1 | 0.727 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 0.585 | 1 | 0.585 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 1.36 | 1 | 1.36 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 1.09 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 1.56 | 1 | 1.56 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 0.461 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 0.167 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 0.468 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 0.48 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 0.459 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 0.185 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 0.502 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 0.65 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 1.85 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 0.626 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 0.549 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 0.855 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 0.823 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 0.939 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 0.642 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 0.781 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 2.18 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 0.409 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 2.21 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 2.41 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 0.465 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 0.901 | 0 | 0 | 1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 1.99 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 0.379 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 0.233 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 0.42 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 0.16 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 0.24 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 0.093 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 0.154 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 1.62 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 1.58 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 0.8 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 0.69 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 0.24 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 0.19 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 0.0989 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 0.102 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 0.97 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 0.68 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 0.45 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 0.49 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 0.248 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 0.802 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 0.256 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 0.458 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 0.158 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 0.156 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 0.969 | 1 | 0.969 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 0.11 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 0.393 | 1 | 0.393 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 0.323 | 1 | 0.323 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 0.445 | 1 | 0.445 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 0.544 | 1 | 0.544 | 1 | NA | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.17580301 | 0 | 0 | 0 | 1.11 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.17580301 | 0 | 0 | 0 | 0.705 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.17580301 | 0 | 0 | 0 | 0.977 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.17580301 | 0 | 0 | 0 | 0.61 | 1 | 0.61 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.17580301 | 0 | 0 | 0 | 0.618 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.17580301 | 0 | 0 | 0 | 0.507 | 1 | 0.507 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.17580301 | 0 | 0 | 0 | 0.597 | 1 | 0.597 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.17580301 | 0 | 0 | 0 | 0.148 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.17580301 | 0 | 0 | 0 | 0.555 | 1 | 0.555 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.17580301 | 0 | 0 | 0 | 0.456 | 1 | 0.456 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.17580301 | 0 | 0 | 0 | 0.57 | 1 | 0.57 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.17580301 | 0 | 0 | 0 | 0.46 | 1 | 0.46 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.17580301 | 0 | 0 | 0 | 0.481 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.17580301 | 0 | 0 | 0 | 0.6 | 1 | 0.6 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.17580301 | | | | | | | 1 | 0 | | | |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.17580301 | 0.034984798 | 0.034984798 | 0.035 | 0.5 | 1 | 0.5 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.17580301 | 0 | 0 | 0 | 0.464 | 1 | 0.464 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.17580301 | 0 | 0 | 0 | 0.349 | 1 | 0.349 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.17580301 | 0 | 0 | 0 | 0.283 | 1 | 0.283 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.17580301 | 0.057487583 | 0.057487583 | 0.057 | 1.32 | 1 | 1.32 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.17580301 | 0 | 0 | 0 | 0.38 | 1 | 0.38 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.17580301 | 0 | 0 | 0 | 0.42 | 1 | 0.42 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.17580301 | 0.046060388 | 0.046060388 | 0.046 | 0.909 | 1 | 0.909 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.17580301 | 0 | 0 | 0 | 0.6 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.17580301 | 0 | 0 | 0 | 0.614 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.17580301 | 0 | 0 | 0 | 0.985 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.17580301 | 0 | 0 | 0 | 0.502 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.17580301 | 0 | 0 | 0 | 1.06 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.17580301 | 0 | 0 | 0 | 0.676 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.17580301 | 0 | 0 | 0 | 0.378 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.17580301 | 0 | 0 | 0 | 0.64 | 1 | 0.64 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.17580301 | 0 | 0 | 0 | 0.547 | 1 | 0.547 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.17580301 | 0 | 0 | 0 | 1.16 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.17580301 | 0.032875162 | 0.032875162 | 0.033 | 0.436 | 1 | 0.436 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.17580301 | 0 | 0 | 0 | 0.401 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.17580301 | 0 | 0 | 0 | 0.677 | 1 | 0.677 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.17580301 | 0 | 0 | 0 | 0.727 | 1 | 0.727 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.17580301 | | | | | | | 1 | 0 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.17580301 | 0 | 0 | 0 | 0.585 | 1 | 0.585 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.17580301 | 0 | 0 | 0 | 1.36 | 1 | 1.36 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.17580301 | 0.043423343 | 0.043423343 | 0.043 | 1.02 | 1 | 1.02 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.17580301 | 0 | 0 | 0 | 1.09 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.17580301 | 0.095461033 | 0.095461033 | 0.095 | 1.56 | 1 | 1.56 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.17580301 | 0 | 0 | 0 | 0.461 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.17580301 | 0 | 0 | 0 | 0.167 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.17580301 | 0 | 0 | 0 | 0.468 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.17580301 | 0 | 0 | 0 | 0.48 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.17580301 | 0 | 0 | 0 | 0.459 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.17580301 | 0 | 0 | 0 | 0.185 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.17580301 | 0 | 0 | 0 | 0.502 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.17580301 | 0 | 0 | 0 | 0.65 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.17580301 | 0 | 0 | 0 | 1.85 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.17580301 | 0 | 0 | 0 | 0.626 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.17580301 | 0 | 0 | 0 | 0.549 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.17580301 | | | | | | | 1 | 0 | | | |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.17580301 | 0 | 0 | 0 | 0.855 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.17580301 | 0 | 0 | 0 | 0.823 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.17580301 | 0 | 0 | 0 | 0.939 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.17580301 | 0 | 0 | 0 | 0.642 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.17580301 | 0 | 0 | 0 | 0.781 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.17580301 | 0 | 0 | 0 | 2.18 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.17580301 | 0 | 0 | 0 | 0.409 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.17580301 | 0 | 0 | 0 | 2.21 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.17580301 | 0 | 0 | 0 | 2.41 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.17580301 | 0 | 0 | 0 | 0.465 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.17580301 | 0 | 0 | 0 | 0.901 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.17580301 | 0 | 0 | 0 | 1.99 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.17580301 | 0 | 0 | 0 | 0.379 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.17580301 | 0 | 0 | 0 | 0.233 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.17580301 | 0 | 0 | 0 | 0.42 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.17580301 | 0 | 0 | 0 | 0.16 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.17580301 | 0 | 0 | 0 | 0.24 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.17580301 | 0 | 0 | 0 | 0.093 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.17580301 | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.17580301 | 0 | 0 | 0 | 0.154 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.17580301 | 0 | 0 | 0 | 1.62 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.17580301 | 0 | 0 | 0 | 1.58 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.17580301 | 0 | 0 | 0 | 0.12 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.17580301 | | | | | | | 1 | 0 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.17580301 | 0 | 0 | 0 | 0.8 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.17580301 | 0 | 0 | 0 | 0.51 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.17580301 | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.17580301 | 0 | 0 | 0 | 0.69 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.17580301 | 0 | 0 | 0 | 0.24 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.17580301 | 0 | 0 | 0 | 0.19 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.17580301 | 0 | 0 | 0 | 0.0989 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.17580301 | 0 | 0 | 0 | 0.102 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.17580301 | 0.131852256 | 0.131852256 | 0.13 | 0.97 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.17580301 | | | | | | | 1 | 0 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.17580301 | 0 | 0 | 0 | 0.68 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.17580301 | 0 | 0 | 0 | 0.45 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.17580301 | 0 | 0 | 0 | 0.49 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.17580301 | | | | | | | 1 | 0 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.17580301 | 0 | 0 | 0 | 0.248 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.17580301 | 0 | 0 | 0 | 0.802 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.17580301 | 0 | 0 | 0 | 0.256 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.17580301 | 0 | 0 | 0 | 0.458 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.17580301 | 0 | 0 | 0 | 0.158 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.17580301 | 0 | 0 | 0 | 0.156 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.17580301 | 0.077529126 | 0.077529126 | 0.078 | 0.969 | 1 | 0.969 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.17580301 | 0 | 0 | 0 | 0.11 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.17580301 | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.17580301 | 0.023909209 | 0.023909209 | 0.024 | 0.393 | 1 | 0.393 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.17580301 | 0.024085012 | 0.024085012 | 0.024 | 0.323 | 1 | 0.323 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.17580301 | 0 | 0 | 0 | 0.445 | 1 | 0.445 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.17580301 | 0 | 0 | 0 | 0.544 | 1 | 0.544 | 1 | 0 | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 215.47702 | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 215.47702 | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 215.47702 | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 215.47702 | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 215.47702 | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 215.47702 | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 215.47702 | 31.67512195 | 31.67512195 | 32 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 215.47702 | 107.73851 | 107.73851 | 110 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 215.47702 | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 215.47702 | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 215.47702 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 215.47702 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 215.47702 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 215.47702 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 4.77272727 | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 4.77272727 | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 4.77272727 | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 4.77272727 | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 4.77272727 | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 4.77272727 | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.77272727 | 0.701590909 | 0.701590909 | 0.7 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 4.77272727 | 2.386363636 | 2.386363636 | 2.4 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 4.77272727 | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 4.77272727 | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 4.77272727 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 4.77272727 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 4.77272727 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 4.77272727 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 150.833914 | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 150.833914 | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 150.833914 | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 150.833914 | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 150.833914 | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 150.833914 | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 150.833914 | 22.17258537 | 22.17258537 | 22 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 150.833914 | 75.41695703 | 75.41695703 | 75 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 150.833914 | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 150.833914 | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 150.833914 | | | | | | | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 150.833914 | | | | | | | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 150.833914 | | | | | | | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 150.833914 | | | | | | | 1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.8 | 1 | 0.8 | 0.1 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.9 | 1 | 0.9 | 0.1 | NA | 0 | 0 | 0 | 4.2 | 1 | 4.2 | 0.1 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 1.3 | 1 | 1.3 | 0.1 | NA | 0 | 0 | 0 | 4.5 | 1 | 4.5 | 0.1 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.81 | 1 | 0.81 | 0.1 | NA | 0 | 0 | 0 | 2.65 | 1 | 2.65 | 0.1 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 1.13 | 1 | 1.13 | 0.1 | NA | 0 | 0 | 0 | 3.33 | 1 | 3.33 | 0.1 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 1.07 | 1 | 1.07 | 0.1 | NA | 0 | 0 | 0 | 2.16 | 1 | 2.16 | 0.1 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 1.18 | 1 | 1.18 | 0.1 | NA | 0 | 0 | 0 | 3.52 | 1 | 3.52 | 0.1 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.276 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.49 | 1 | 0.49 | 0.1 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 1.19 | 1 | 1.19 | 0.1 | NA | 0 | 0 | 0 | 2.44 | 1 | 2.44 | 0.1 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 1.18 | 1 | 1.18 | 0.1 | NA | 0 | 0 | 0 | 2.36 | 1 | 2.36 | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.99 | 1 | 0.99 | 0.1 | NA | 0 | 0 | 0 | 2.82 | 1 | 2.82 | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 1.13 | 1 | 1.13 | 0.1 | NA | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 1.13 | 1 | 1.13 | 0.1 | NA | 0 | 0 | 0 | 2.41 | 1 | 2.41 | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 1.32 | 1 | 1.32 | 0.1 | NA | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.8 | 1 | 0.8 | 0.1 | NA | 0 | 0 | 0 | 2.04 | 0 | 0 | 0.1 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1.16 | 1 | 1.16 | 0.1 | NA | 0 | 0 | 0 | 3.39 | 1 | 3.39 | 0.1 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.66 | 1 | 0.66 | 0.1 | NA | 0 | 0 | 0 | 1.16 | 1 | 1.16 | 0.1 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.507 | 1 | 0.507 | 0.1 | NA | 0 | 0 | 0 | 0.996 | 1 | 0.996 | 0.1 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 2.14 | 1 | 2.14 | 0.1 | NA | 0 | 0 | 0 | 7.01 | 1 | 7.01 | 0.1 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 1.14 | 1 | 1.14 | 0.1 | NA | 0 | 0 | 0 | 2.03 | 0 | 0 | 0.1 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.792 | 1 | 0.792 | 0.1 | NA | 0 | 0 | 0 | 1.5 | 1 | 1.5 | 0.1 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 1.9 | 1 | 1.9 | 0.1 | NA | 0 | 0 | 0 | 3.85 | 1 | 3.85 | 0.1 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.672 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.26 | 1 | 1.26 | 0.1 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.445 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.95 | 0 | 0 | 0.1 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 1.52 | 1 | 1.52 | 0.1 | NA | 0 | 0 | 0 | 3.41 | 1 | 3.41 | 0.1 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.896 | 1 | 0.896 | 0.1 | NA | 0 | 0 | 0 | 1.53 | 0 | 0 | 0.1 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 1.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.64 | 1 | 3.64 | 0.1 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 1.2 | 1 | 1.2 | 0.1 | NA | 0 | 0 | 0 | 5.39 | 1 | 5.39 | 0.1 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.672 | 1 | 0.672 | 0.1 | NA | 0 | 0 | 0 | 1.43 | 1 | 1.43 | 0.1 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.998 | 1 | 0.998 | 0.1 | NA | 0 | 0 | 0 | 2.98 | 1 | 2.98 | 0.1 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.87 | 1 | 0.87 | 0.1 | NA | 0 | 0 | 0 | 3.2 | 1 | 3.2 | 0.1 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 2.53 | 1 | 2.53 | 0.1 | NA | 0 | 0 | 0 | 17.6 | 1 | 17.6 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.729 | 1 | 0.729 | 0.1 | NA | 0 | 0 | 0 | 2.56 | 1 | 2.56 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.842 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 1.24 | 1 | 1.24 | 0.1 | NA | 0 | 0 | 0 | 3.15 | 1 | 3.15 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 1.09 | 1 | 1.09 | 0.1 | NA | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 1.05 | 1 | 1.05 | 0.1 | NA | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 2.8 | 1 | 2.8 | 0.1 | NA | 0 | 0 | 0 | 6.08 | 1 | 6.08 | 0.1 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 1.57 | 1 | 1.57 | 0.1 | NA | 0 | 0 | 0 | 5.28 | 1 | 5.28 | 0.1 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 1.15 | 1 | 1.15 | 0.1 | NA | 0 | 0 | 0 | 4.02 | 1 | 4.02 | 0.1 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 2.63 | 1 | 2.63 | 0.1 | NA | 0 | 0 | 0 | 7.57 | 1 | 7.57 | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.847 | 1 | 0.847 | 0.1 | NA | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.1 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 1.84 | 1 | 1.84 | 0.1 | NA | 0 | 0 | 0 | 7 | 1 | 7 | 0.1 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 1.66 | 1 | 1.66 | 0.1 | NA | 0 | 0 | 0 | 6.64 | 1 | 6.64 | 0.1 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.739 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.19 | 1 | 3.19 | 0.1 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.426 | 1 | 0.426 | 0.1 | NA | 0 | 0 | 0 | 2.14 | 1 | 2.14 | 0.1 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.24 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.79 | 1 | 6.79 | 0.1 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 1.77 | 1 | 1.77 | 0.1 | NA | 0 | 0 | 0 | 4.19 | 1 | 4.19 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 1.31 | 1 | 1.31 | 0.1 | NA | 0 | 0 | 0 | 1.85 | 0 | 0 | 0.1 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 5.6 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.81 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 1.39 | 1 | 1.39 | 0.1 | NA | 0 | 0 | 0 | 2.38 | 1 | 2.38 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.894 | 1 | 0.894 | 0.1 | NA | 0 | 0 | 0 | 1.87 | 1 | 1.87 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.861 | 1 | 0.861 | 0.1 | NA | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.61 | 1 | 1.61 | 0.1 | NA | 0 | 0 | 0 | 5.29 | 1 | 5.29 | 0.1 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.752 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 7.42 | 1 | 7.42 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 1.19 | 1 | 1.19 | 0.1 | NA | 0 | 0 | 0 | 4.01 | 1 | 4.01 | 0.1 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 1.69 | 1 | 1.69 | 0.1 | NA | 0 | 0 | 0 | 5.54 | 1 | 5.54 | 0.1 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 2.1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.3 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.807 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.02 | 1 | 3.02 | 0.1 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 3.19 | 1 | 3.19 | 0.1 | NA | 0 | 0 | 0 | 9.31 | 1 | 9.31 | 0.1 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 2.15 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.59 | 1 | 5.59 | 0.1 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 1.03 | 1 | 1.03 | 0.1 | NA | 0 | 0 | 0 | 3.69 | 1 | 3.69 | 0.1 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 2.62 | 1 | 2.62 | 0.1 | NA | 0 | 0 | 0 | 12.2 | 1 | 12.2 | 0.1 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 1.01 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.23 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.787 | 1 | 0.787 | 0.1 | NA | 0 | 0 | 0 | 2.39 | 1 | 2.39 | 0.1 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 2.3 | 1 | 2.3 | 0.1 | NA | 0 | 0 | 0 | 4.8 | 1 | 4.8 | 0.1 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.92 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.9 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.38 | 1 | 0.38 | 0.1 | NA | 0 | 0 | 0 | 0.59 | 1 | 0.59 | 0.1 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.7 | 1 | 0.7 | 0.1 | NA | 0 | 0 | 0 | 1.16 | 1 | 1.16 | 0.1 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.19 | 1 | 0.19 | 0.1 | NA | 0 | 0 | 0 | 0.195 | 1 | 0.195 | 0.1 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1.21 | 1 | 1.21 | 0.1 | NA | 0 | 0 | 0 | 2.35 | 1 | 2.35 | 0.1 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1.2 | 1 | 1.2 | 0.1 | NA | 0 | 0 | 0 | 1.4 | 1 | 1.4 | 0.1 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.7 | 1 | 0.7 | 0.1 | NA | 0 | 0 | 0 | 1.6 | 1 | 1.6 | 0.1 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 1.2 | 1 | 1.2 | 0.1 | NA | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.1 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.7 | 1 | 0.7 | 0.1 | NA | 0 | 0 | 0 | 0.75 | 1 | 0.75 | 0.1 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.52 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.75 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.02 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.46 | 1 | 0.46 | 0.1 | NA | 0 | 0 | 0 | 0.54 | 1 | 0.54 | 0.1 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 2.51 | 1 | 2.51 | 0.1 | NA | 0 | 0 | 0 | 7.52 | 1 | 7.52 | 0.1 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.82 | 1 | 0.82 | 0.1 | NA | 0 | 0 | 0 | 0.95 | 1 | 0.95 | 0.1 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.25 | 1 | 0.25 | 0.1 | NA | 0 | 0 | 0 | 0.37 | 1 | 0.37 | 0.1 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.9 | 1 | 0.9 | 0.1 | NA | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.9 | 1 | 0.9 | 0.1 | NA | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.1 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 1.79 | 1 | 1.79 | 0.1 | NA | 0 | 0 | 0 | 6.305 | 1 | 6.305 | 0.1 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.88 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.77 | 1 | 3.77 | 0.1 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.61 | 1 | 0.61 | 0.1 | NA | 0 | 0 | 0 | 1.05 | 1 | 1.05 | 0.1 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.85 | 1 | 0.85 | 0.1 | NA | 0 | 0 | 0 | 2.36 | 1 | 2.36 | 0.1 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.5 | 1 | 0.5 | 0.1 | NA | 0 | 0 | 0 | 3.1 | 1 | 3.1 | 0.1 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 2.53 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.62 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 1.27 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.59 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.683 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.928 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.446 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.1 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.119 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.9 | 1 | 0.9 | 0.1 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 2.12 | 1 | 2.12 | 0.1 | NA | 0 | 0 | 0 | 10 | 1 | 10 | 0.1 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.334 | 1 | 0.334 | 0.1 | NA | 0 | 0 | 0 | 0.949 | 1 | 0.949 | 0.1 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.314 | 1 | 0.314 | 0.1 | NA | 0 | 0 | 0 | 1.24 | 1 | 1.24 | 0.1 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.685 | 1 | 0.685 | 0.1 | NA | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.1 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.489 | 1 | 0.489 | 0.1 | NA | 0 | 0 | 0 | 1.31 | 1 | 1.31 | 0.1 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 1.11 | 1 | 1.11 | 0.1 | NA | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.1 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.871 | 1 | 0.871 | 0.1 | NA | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.8 | 1 | 0.8 | 0.1 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.9 | 1 | 0.9 | 0.1 | NA | 0 | 0 | 0 | 4.2 | 1 | 4.2 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 1.3 | 1 | 1.3 | 0.1 | NA | 0 | 0 | 0 | 4.5 | 1 | 4.5 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.81 | 1 | 0.81 | 0.1 | NA | 0 | 0 | 0 | 2.65 | 1 | 2.65 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 1.13 | 1 | 1.13 | 0.1 | NA | 0 | 0 | 0 | 3.33 | 1 | 3.33 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 1.07 | 1 | 1.07 | 0.1 | NA | 0 | 0 | 0 | 2.16 | 1 | 2.16 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 1.18 | 1 | 1.18 | 0.1 | NA | 0 | 0 | 0 | 3.52 | 1 | 3.52 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.276 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.49 | 1 | 0.49 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 1.19 | 1 | 1.19 | 0.1 | NA | 0 | 0 | 0 | 2.44 | 1 | 2.44 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 1.18 | 1 | 1.18 | 0.1 | NA | 0 | 0 | 0 | 2.36 | 1 | 2.36 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.99 | 1 | 0.99 | 0.1 | NA | 0 | 0 | 0 | 2.82 | 1 | 2.82 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 1.13 | 1 | 1.13 | 0.1 | NA | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 1.13 | 1 | 1.13 | 0.1 | NA | 0 | 0 | 0 | 2.41 | 1 | 2.41 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 1.32 | 1 | 1.32 | 0.1 | NA | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.8 | 1 | 0.8 | 0.1 | NA | 0 | 0 | 0 | 2.04 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1.16 | 1 | 1.16 | 0.1 | NA | 0 | 0 | 0 | 3.39 | 1 | 3.39 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.66 | 1 | 0.66 | 0.1 | NA | 0 | 0 | 0 | 1.16 | 1 | 1.16 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.507 | 1 | 0.507 | 0.1 | NA | 0 | 0 | 0 | 0.996 | 1 | 0.996 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 2.14 | 1 | 2.14 | 0.1 | NA | 0 | 0 | 0 | 7.01 | 1 | 7.01 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 1.14 | 1 | 1.14 | 0.1 | NA | 0 | 0 | 0 | 2.03 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.792 | 1 | 0.792 | 0.1 | NA | 0 | 0 | 0 | 1.5 | 1 | 1.5 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 1.9 | 1 | 1.9 | 0.1 | NA | 0 | 0 | 0 | 3.85 | 1 | 3.85 | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.672 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.26 | 1 | 1.26 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.445 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.95 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 1.52 | 1 | 1.52 | 0.1 | NA | 0 | 0 | 0 | 3.41 | 1 | 3.41 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.896 | 1 | 0.896 | 0.1 | NA | 0 | 0 | 0 | 1.53 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 1.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.64 | 1 | 3.64 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 1.2 | 1 | 1.2 | 0.1 | NA | 0 | 0 | 0 | 5.39 | 1 | 5.39 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.672 | 1 | 0.672 | 0.1 | NA | 0 | 0 | 0 | 1.43 | 1 | 1.43 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.998 | 1 | 0.998 | 0.1 | NA | 0 | 0 | 0 | 2.98 | 1 | 2.98 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.87 | 1 | 0.87 | 0.1 | NA | 0 | 0 | 0 | 3.2 | 1 | 3.2 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 2.53 | 1 | 2.53 | 0.1 | NA | 0 | 0 | 0 | 17.6 | 1 | 17.6 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.729 | 1 | 0.729 | 0.1 | NA | 0 | 0 | 0 | 2.56 | 1 | 2.56 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.842 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 1.24 | 1 | 1.24 | 0.1 | NA | 0 | 0 | 0 | 3.15 | 1 | 3.15 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 1.09 | 1 | 1.09 | 0.1 | NA | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 1.05 | 1 | 1.05 | 0.1 | NA | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 2.8 | 1 | 2.8 | 0.1 | NA | 0 | 0 | 0 | 6.08 | 1 | 6.08 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 1.57 | 1 | 1.57 | 0.1 | NA | 0 | 0 | 0 | 5.28 | 1 | 5.28 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 1.15 | 1 | 1.15 | 0.1 | NA | 0 | 0 | 0 | 4.02 | 1 | 4.02 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 2.63 | 1 | 2.63 | 0.1 | NA | 0 | 0 | 0 | 7.57 | 1 | 7.57 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.847 | 1 | 0.847 | 0.1 | NA | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 1.84 | 1 | 1.84 | 0.1 | NA | 0 | 0 | 0 | 7 | 1 | 7 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 1.66 | 1 | 1.66 | 0.1 | NA | 0 | 0 | 0 | 6.64 | 1 | 6.64 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.739 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.19 | 1 | 3.19 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.426 | 1 | 0.426 | 0.1 | NA | 0 | 0 | 0 | 2.14 | 1 | 2.14 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.24 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.79 | 1 | 6.79 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 1.77 | 1 | 1.77 | 0.1 | NA | 0 | 0 | 0 | 4.19 | 1 | 4.19 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 1.31 | 1 | 1.31 | 0.1 | NA | 0 | 0 | 0 | 1.85 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 5.6 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.81 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 1.39 | 1 | 1.39 | 0.1 | NA | 0 | 0 | 0 | 2.38 | 1 | 2.38 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.894 | 1 | 0.894 | 0.1 | NA | 0 | 0 | 0 | 1.87 | 1 | 1.87 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.861 | 1 | 0.861 | 0.1 | NA | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.61 | 1 | 1.61 | 0.1 | NA | 0 | 0 | 0 | 5.29 | 1 | 5.29 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.752 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 7.42 | 1 | 7.42 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 1.19 | 1 | 1.19 | 0.1 | NA | 0 | 0 | 0 | 4.01 | 1 | 4.01 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 1.69 | 1 | 1.69 | 0.1 | NA | 0 | 0 | 0 | 5.54 | 1 | 5.54 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 2.1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.3 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.807 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.02 | 1 | 3.02 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 3.19 | 1 | 3.19 | 0.1 | NA | 0 | 0 | 0 | 9.31 | 1 | 9.31 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 2.15 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.59 | 1 | 5.59 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 1.03 | 1 | 1.03 | 0.1 | NA | 0 | 0 | 0 | 3.69 | 1 | 3.69 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 2.62 | 1 | 2.62 | 0.1 | NA | 0 | 0 | 0 | 12.2 | 1 | 12.2 | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 1.01 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.23 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.787 | 1 | 0.787 | 0.1 | NA | 0 | 0 | 0 | 2.39 | 1 | 2.39 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 2.3 | 1 | 2.3 | 0.1 | NA | 0 | 0 | 0 | 4.8 | 1 | 4.8 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.92 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.9 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.38 | 1 | 0.38 | 0.1 | NA | 0 | 0 | 0 | 0.59 | 1 | 0.59 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.7 | 1 | 0.7 | 0.1 | NA | 0 | 0 | 0 | 1.16 | 1 | 1.16 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.19 | 1 | 0.19 | 0.1 | NA | 0 | 0 | 0 | 0.195 | 1 | 0.195 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1.21 | 1 | 1.21 | 0.1 | NA | 0 | 0 | 0 | 2.35 | 1 | 2.35 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1.2 | 1 | 1.2 | 0.1 | NA | 0 | 0 | 0 | 1.4 | 1 | 1.4 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.7 | 1 | 0.7 | 0.1 | NA | 0 | 0 | 0 | 1.6 | 1 | 1.6 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 1.2 | 1 | 1.2 | 0.1 | NA | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.7 | 1 | 0.7 | 0.1 | NA | 0 | 0 | 0 | 0.75 | 1 | 0.75 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.52 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.75 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.02 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.46 | 1 | 0.46 | 0.1 | NA | 0 | 0 | 0 | 0.54 | 1 | 0.54 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 2.51 | 1 | 2.51 | 0.1 | NA | 0 | 0 | 0 | 7.52 | 1 | 7.52 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.82 | 1 | 0.82 | 0.1 | NA | 0 | 0 | 0 | 0.95 | 1 | 0.95 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.25 | 1 | 0.25 | 0.1 | NA | 0 | 0 | 0 | 0.37 | 1 | 0.37 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.9 | 1 | 0.9 | 0.1 | NA | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.9 | 1 | 0.9 | 0.1 | NA | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 1.79 | 1 | 1.79 | 0.1 | NA | 0 | 0 | 0 | 6.305 | 1 | 6.305 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.88 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.77 | 1 | 3.77 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.61 | 1 | 0.61 | 0.1 | NA | 0 | 0 | 0 | 1.05 | 1 | 1.05 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.85 | 1 | 0.85 | 0.1 | NA | 0 | 0 | 0 | 2.36 | 1 | 2.36 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.5 | 1 | 0.5 | 0.1 | NA | 0 | 0 | 0 | 3.1 | 1 | 3.1 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 2.53 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.62 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 1.27 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.59 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.683 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.928 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.446 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.119 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.9 | 1 | 0.9 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 2.12 | 1 | 2.12 | 0.1 | NA | 0 | 0 | 0 | 10 | 1 | 10 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.334 | 1 | 0.334 | 0.1 | NA | 0 | 0 | 0 | 0.949 | 1 | 0.949 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.314 | 1 | 0.314 | 0.1 | NA | 0 | 0 | 0 | 1.24 | 1 | 1.24 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.685 | 1 | 0.685 | 0.1 | NA | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.489 | 1 | 0.489 | 0.1 | NA | 0 | 0 | 0 | 1.31 | 1 | 1.31 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 1.11 | 1 | 1.11 | 0.1 | NA | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.871 | 1 | 0.871 | 0.1 | NA | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.1 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.8 | 1 | 0.8 | 0.1 | 0 | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.9 | 1 | 0.9 | 0.1 | 0 | 0 | 0 | 0 | 4.2 | 1 | 4.2 | 0.1 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 1.3 | 1 | 1.3 | 0.1 | 0 | 0 | 0 | 0 | 4.5 | 1 | 4.5 | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.81 | 1 | 0.81 | 0.1 | 0 | 0 | 0 | 0 | 2.65 | 1 | 2.65 | 0.1 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 1.13 | 1 | 1.13 | 0.1 | 0 | 0 | 0 | 0 | 3.33 | 1 | 3.33 | 0.1 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 1.07 | 1 | 1.07 | 0.1 | 0 | 0 | 0 | 0 | 2.16 | 1 | 2.16 | 0.1 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 1.18 | 1 | 1.18 | 0.1 | 0 | 0 | 0 | 0 | 3.52 | 1 | 3.52 | 0.1 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.276 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0.49 | 1 | 0.49 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 1.19 | 1 | 1.19 | 0.1 | 0 | 0 | 0 | 0 | 2.44 | 1 | 2.44 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 1.18 | 1 | 1.18 | 0.1 | 0 | 0 | 0 | 0 | 2.36 | 1 | 2.36 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.99 | 1 | 0.99 | 0.1 | 0 | 0 | 0 | 0 | 2.82 | 1 | 2.82 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 1.13 | 1 | 1.13 | 0.1 | 0 | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 1.13 | 1 | 1.13 | 0.1 | 0 | 0 | 0 | 0 | 2.41 | 1 | 2.41 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 1.32 | 1 | 1.32 | 0.1 | 0 | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.1 | 0 | | | | | | | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.8 | 1 | 0.8 | 0.1 | 0 | 0 | 0 | 0 | 2.04 | 0 | 0 | 0.1 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1.16 | 1 | 1.16 | 0.1 | 0 | 0 | 0 | 0 | 3.39 | 1 | 3.39 | 0.1 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.66 | 1 | 0.66 | 0.1 | 0 | 0 | 0 | 0 | 1.16 | 1 | 1.16 | 0.1 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.507 | 1 | 0.507 | 0.1 | 0 | 0 | 0 | 0 | 0.996 | 1 | 0.996 | 0.1 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 2.14 | 1 | 2.14 | 0.1 | 0 | 0 | 0 | 0 | 7.01 | 1 | 7.01 | 0.1 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 1.14 | 1 | 1.14 | 0.1 | 0 | 0 | 0 | 0 | 2.03 | 0 | 0 | 0.1 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.792 | 1 | 0.792 | 0.1 | 0 | 0 | 0 | 0 | 1.5 | 1 | 1.5 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 1.9 | 1 | 1.9 | 0.1 | 0 | 0 | 0 | 0 | 3.85 | 1 | 3.85 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.672 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 1.26 | 1 | 1.26 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.445 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0.95 | 0 | 0 | 0.1 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 1.52 | 1 | 1.52 | 0.1 | 0 | 0 | 0 | 0 | 3.41 | 1 | 3.41 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.896 | 1 | 0.896 | 0.1 | 0 | 0 | 0 | 0 | 1.53 | 0 | 0 | 0.1 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 1.23 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 3.64 | 1 | 3.64 | 0.1 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 1.2 | 1 | 1.2 | 0.1 | 0 | 0 | 0 | 0 | 5.39 | 1 | 5.39 | 0.1 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.672 | 1 | 0.672 | 0.1 | 0 | 0 | 0 | 0 | 1.43 | 1 | 1.43 | 0.1 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.998 | 1 | 0.998 | 0.1 | 0 | 0 | 0 | 0 | 2.98 | 1 | 2.98 | 0.1 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.87 | 1 | 0.87 | 0.1 | 0 | 0 | 0 | 0 | 3.2 | 1 | 3.2 | 0.1 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 2.53 | 1 | 2.53 | 0.1 | 0 | 0 | 0 | 0 | 17.6 | 1 | 17.6 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.729 | 1 | 0.729 | 0.1 | 0 | 0 | 0 | 0 | 2.56 | 1 | 2.56 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.842 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 1.24 | 1 | 1.24 | 0.1 | 0 | 0 | 0 | 0 | 3.15 | 1 | 3.15 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 1.09 | 1 | 1.09 | 0.1 | 0 | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.1 | 0 | | | | | | | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 1.05 | 1 | 1.05 | 0.1 | 0 | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 2.8 | 1 | 2.8 | 0.1 | 0 | 0 | 0 | 0 | 6.08 | 1 | 6.08 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 1.57 | 1 | 1.57 | 0.1 | 0 | 0 | 0 | 0 | 5.28 | 1 | 5.28 | 0.1 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 1.15 | 1 | 1.15 | 0.1 | 0 | 0 | 0 | 0 | 4.02 | 1 | 4.02 | 0.1 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 2.63 | 1 | 2.63 | 0.1 | 0 | 0 | 0 | 0 | 7.57 | 1 | 7.57 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.847 | 1 | 0.847 | 0.1 | 0 | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.1 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 1.84 | 1 | 1.84 | 0.1 | 0 | 0 | 0 | 0 | 7 | 1 | 7 | 0.1 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 1.66 | 1 | 1.66 | 0.1 | 0 | 0 | 0 | 0 | 6.64 | 1 | 6.64 | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.739 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 3.19 | 1 | 3.19 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.426 | 1 | 0.426 | 0.1 | 0 | 0 | 0 | 0 | 2.14 | 1 | 2.14 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.24 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 6.79 | 1 | 6.79 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 1.77 | 1 | 1.77 | 0.1 | 0 | 0 | 0 | 0 | 4.19 | 1 | 4.19 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 1.31 | 1 | 1.31 | 0.1 | 0 | 0 | 0 | 0 | 1.85 | 0 | 0 | 0.1 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 5.6 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 5.81 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 1.39 | 1 | 1.39 | 0.1 | 0 | 0 | 0 | 0 | 2.38 | 1 | 2.38 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.894 | 1 | 0.894 | 0.1 | 0 | 0 | 0 | 0 | 1.87 | 1 | 1.87 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.1 | 0 | | | | | | | 0.1 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.861 | 1 | 0.861 | 0.1 | 0 | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.61 | 1 | 1.61 | 0.1 | 0 | 0 | 0 | 0 | 5.29 | 1 | 5.29 | 0.1 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.752 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 7.42 | 1 | 7.42 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 1.19 | 1 | 1.19 | 0.1 | 0 | 0 | 0 | 0 | 4.01 | 1 | 4.01 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 1.69 | 1 | 1.69 | 0.1 | 0 | 0 | 0 | 0 | 5.54 | 1 | 5.54 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 2.1 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 2.3 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.807 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 3.02 | 1 | 3.02 | 0.1 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 3.19 | 1 | 3.19 | 0.1 | 0 | 0 | 0 | 0 | 9.31 | 1 | 9.31 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 2.15 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 5.59 | 1 | 5.59 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 1.03 | 1 | 1.03 | 0.1 | 0 | 0 | 0 | 0 | 3.69 | 1 | 3.69 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 2.62 | 1 | 2.62 | 0.1 | 0 | 0 | 0 | 0 | 12.2 | 1 | 12.2 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 1.01 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 1.23 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.787 | 1 | 0.787 | 0.1 | 0 | 0 | 0 | 0 | 2.39 | 1 | 2.39 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 2.3 | 1 | 2.3 | 0.1 | 0 | 0 | 0 | 0 | 4.8 | 1 | 4.8 | 0.1 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.92 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 1.9 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.38 | 1 | 0.38 | 0.1 | 0 | 0 | 0 | 0 | 0.59 | 1 | 0.59 | 0.1 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.7 | 1 | 0.7 | 0.1 | 0 | 0 | 0 | 0 | 1.16 | 1 | 1.16 | 0.1 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.19 | 1 | 0.19 | 0.1 | 0 | 0 | 0 | 0 | 0.195 | 1 | 0.195 | 0.1 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1.21 | 1 | 1.21 | 0.1 | 0 | 0 | 0 | 0 | 2.35 | 1 | 2.35 | 0.1 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1.2 | 1 | 1.2 | 0.1 | 0 | 0 | 0 | 0 | 1.4 | 1 | 1.4 | 0.1 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.7 | 1 | 0.7 | 0.1 | 0 | 0 | 0 | 0 | 1.6 | 1 | 1.6 | 0.1 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 1.2 | 1 | 1.2 | 0.1 | 0 | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.1 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.7 | 1 | 0.7 | 0.1 | 0 | 0 | 0 | 0 | 0.75 | 1 | 0.75 | 0.1 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.1 | 0 | | | | | | | 0.1 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 1.52 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.75 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 1.02 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.46 | 1 | 0.46 | 0.1 | 0 | 0 | 0 | 0 | 0.54 | 1 | 0.54 | 0.1 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 2.51 | 1 | 2.51 | 0.1 | 0 | 0 | 0 | 0 | 7.52 | 1 | 7.52 | 0.1 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.82 | 1 | 0.82 | 0.1 | 0 | 0 | 0 | 0 | 0.95 | 1 | 0.95 | 0.1 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.25 | 1 | 0.25 | 0.1 | 0 | 0 | 0 | 0 | 0.37 | 1 | 0.37 | 0.1 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.9 | 1 | 0.9 | 0.1 | 0 | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.1 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.9 | 1 | 0.9 | 0.1 | 0 | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.1 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 1.79 | 1 | 1.79 | 0.1 | 0 | 0 | 0 | 0 | 6.305 | 1 | 6.305 | 0.1 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.1 | 0 | | | | | | | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.88 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 3.77 | 1 | 3.77 | 0.1 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.61 | 1 | 0.61 | 0.1 | 0 | 0 | 0 | 0 | 1.05 | 1 | 1.05 | 0.1 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.85 | 1 | 0.85 | 0.1 | 0 | 0 | 0 | 0 | 2.36 | 1 | 2.36 | 0.1 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.1 | 0 | | | | | | | 0.1 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.5 | 1 | 0.5 | 0.1 | 0 | 0 | 0 | 0 | 3.1 | 1 | 3.1 | 0.1 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 2.53 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 2.62 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 1.27 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 2.59 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.683 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0.928 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.446 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.1 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.119 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0.9 | 1 | 0.9 | 0.1 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 2.12 | 1 | 2.12 | 0.1 | 0 | 0 | 0 | 0 | 10 | 1 | 10 | 0.1 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.334 | 1 | 0.334 | 0.1 | 0 | 0 | 0 | 0 | 0.949 | 1 | 0.949 | 0.1 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.314 | 1 | 0.314 | 0.1 | 0 | 0 | 0 | 0 | 1.24 | 1 | 1.24 | 0.1 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.685 | 1 | 0.685 | 0.1 | 0 | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.1 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.489 | 1 | 0.489 | 0.1 | 0 | 0 | 0 | 0 | 1.31 | 1 | 1.31 | 0.1 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 1.11 | 1 | 1.11 | 0.1 | 0 | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.1 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.871 | 1 | 0.871 | 0.1 | 0 | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.1 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.1 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.1 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.1 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.1 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.1 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.1 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.1 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.1 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.1 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.1 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.1 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.1 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.1 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.1 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.1 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.1 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.1 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.1 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.1 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.1 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.1 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.1 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.1 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.1 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.1 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.1 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.1 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.1 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.1 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.1 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.1 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.1 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.1 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.1 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.1 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.1 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.1 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.1 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.1 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.1 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.1 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.1 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.1 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.1 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.1 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.1 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.1 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.1 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.1 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.1 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.1 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.1 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.1 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.1 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.1 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.1 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.1 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.1 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.1 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.1 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.1 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.1 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.1 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.1 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.1 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.1 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.1 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.1 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.1 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.1 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.1 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.1 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.1 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.1 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.1 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.1 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.1 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.1 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.1 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.1 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.1 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.1 | 2.923976608 | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.1 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.1 | 2.923976608 | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.1 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.1 | 2.923976608 | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.1 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.1 | 2.923976608 | 4.707602339 | 0.470760234 | 0.47 | 3.36 | 1 | 3.36 | 0.1 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.1 | 2.923976608 | 0.409356725 | 0.040935673 | 0.041 | 0.329 | 0 | 0 | 0.1 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.1 | 2.923976608 | 0.371345029 | 0.037134503 | 0.037 | 0.247 | 0 | 0 | 0.1 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.1 | 2.923976608 | 0.707602339 | 0.070760234 | 0.071 | 0.573 | 0 | 0 | 0.1 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.1 | 2.923976608 | 4.766081871 | 0.476608187 | 0.48 | 3.7 | 1 | 3.7 | 0.1 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.1 | 2.923976608 | 1.134502924 | 0.113450292 | 0.11 | 1.05 | 0 | 0 | 0.1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.1 | 2.923976608 | 1.611111111 | 0.161111111 | 0.16 | 1.01 | 0 | 0 | 0.1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | 2.923976608 | | | | | | | 0.1 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 2.923976608 | | | | | | | 0.1 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 2.923976608 | | | | | | | 0.1 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 2.923976608 | | | | | | | 0.1 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.1 | 2.677741276 | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.1 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.1 | 2.677741276 | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.1 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.1 | 2.677741276 | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.1 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.1 | 2.677741276 | 4.311163454 | 0.431116345 | 0.43 | 3.36 | 1 | 3.36 | 0.1 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.1 | 2.677741276 | 0.374883779 | 0.037488378 | 0.037 | 0.329 | 0 | 0 | 0.1 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.1 | 2.677741276 | 0.340073142 | 0.034007314 | 0.034 | 0.247 | 0 | 0 | 0.1 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.1 | 2.677741276 | 0.648013389 | 0.064801339 | 0.065 | 0.573 | 0 | 0 | 0.1 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.1 | 2.677741276 | 4.364718279 | 0.436471828 | 0.44 | 3.7 | 1 | 3.7 | 0.1 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.1 | 2.677741276 | 1.038963615 | 0.103896361 | 0.1 | 1.05 | 0 | 0 | 0.1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.1 | 2.677741276 | 1.475435443 | 0.147543544 | 0.15 | 1.01 | 0 | 0 | 0.1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | 2.677741276 | | | | | | | 0.1 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 2.677741276 | | | | | | | 0.1 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 2.677741276 | | | | | | | 0.1 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 2.677741276 | | | | | | | 0.1 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.1 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.1 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.1 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.1 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.1 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.1 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.1 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.1 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.1 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.1 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.1 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.1 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.1 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.1 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.1 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.1 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.1 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.1 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.1 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.1 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.1 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.1 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.1 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.1 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.1 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.1 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.1 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.1 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.1 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.1 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.1 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.1 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.1 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.1 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.1 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.1 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.1 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.1 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.1 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.1 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.1 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.1 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.1 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.1 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.1 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.1 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.1 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.1 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.1 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.1 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.1 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.1 | 2.923976608 | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.1 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.1 | 2.923976608 | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.1 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.1 | 2.923976608 | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.1 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.1 | 2.923976608 | 4.707602339 | 0.470760234 | 0.47 | 3.36 | 1 | 3.36 | 0.1 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.1 | 2.923976608 | 0.409356725 | 0.040935673 | 0.041 | 0.329 | 0 | 0 | 0.1 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.1 | 2.923976608 | 0.371345029 | 0.037134503 | 0.037 | 0.247 | 0 | 0 | 0.1 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.1 | 2.923976608 | 0.707602339 | 0.070760234 | 0.071 | 0.573 | 0 | 0 | 0.1 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.1 | 2.923976608 | 4.766081871 | 0.476608187 | 0.48 | 3.7 | 1 | 3.7 | 0.1 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.1 | 2.923976608 | 1.134502924 | 0.113450292 | 0.11 | 1.05 | 0 | 0 | 0.1 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.1 | 2.923976608 | 1.611111111 | 0.161111111 | 0.16 | 1.01 | 0 | 0 | 0.1 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | 2.923976608 | | | | | | | 0.1 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 2.923976608 | | | | | | | 0.1 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 2.923976608 | | | | | | | 0.1 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 2.923976608 | | | | | | | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.116166472 | 0.220716296 | 0.02207163 | 0.022 | 2.5 | 1 | 2.5 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.116166472 | 0.487899181 | 0.048789918 | 0.049 | 2.6 | 1 | 2.6 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.116166472 | 0.522749122 | 0.052274912 | 0.052 | 3.9 | 1 | 3.9 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.116166472 | 0.30784115 | 0.030784115 | 0.031 | 2.07 | 1 | 2.07 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.116166472 | 0.38683435 | 0.038683435 | 0.039 | 2.24 | 1 | 2.24 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.116166472 | 0.250919579 | 0.025091958 | 0.025 | 2.03 | 1 | 2.03 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.116166472 | 0.40890598 | 0.040890598 | 0.041 | 3.09 | 1 | 3.09 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.116166472 | 0.056921571 | 0.005692157 | 0.0057 | 0.659 | 1 | 0.659 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.116166472 | 0.283446191 | 0.028344619 | 0.028 | 2.58 | 1 | 2.58 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.116166472 | 0.274152873 | 0.027415287 | 0.027 | 2.86 | 1 | 2.86 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.116166472 | 0.32758945 | 0.032758945 | 0.033 | 2.78 | 1 | 2.78 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.116166472 | 0.202129661 | 0.020212966 | 0.02 | 2.25 | 1 | 2.25 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.116166472 | 0.279961197 | 0.02799612 | 0.028 | 3.2 | 1 | 3.2 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.116166472 | 0.319457797 | 0.03194578 | 0.032 | 3.42 | 1 | 3.42 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.116166472 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.116166472 | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.116166472 | 0.393804339 | 0.039380434 | 0.039 | 3.23 | 1 | 3.23 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.116166472 | 0.134753107 | 0.013475311 | 0.013 | 1.62 | 1 | 1.62 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.116166472 | 0.115701806 | 0.011570181 | 0.012 | 1.39 | 1 | 1.39 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.116166472 | 0.814326966 | 0.081432697 | 0.081 | 6.22 | 1 | 6.22 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.116166472 | 0 | 0 | 0 | 2.96 | 1 | 2.96 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.116166472 | 0.174249707 | 0.017424971 | 0.017 | 2.11 | 1 | 2.11 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.116166472 | 0.447240916 | 0.044724092 | 0.045 | 4.91 | 1 | 4.91 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.116166472 | 0.146369754 | 0.014636975 | 0.015 | 1.69 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.116166472 | 0 | 0 | 0 | 1.38 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.116166472 | 0.396127668 | 0.039612767 | 0.04 | 3.12 | 1 | 3.12 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.116166472 | 0 | 0 | 0 | 2.33 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.116166472 | 0.422845957 | 0.042284596 | 0.042 | 4.3 | 1 | 4.3 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.116166472 | 0.626137282 | 0.062613728 | 0.063 | 4.76 | 1 | 4.76 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.116166472 | 0.166118054 | 0.016611805 | 0.017 | 1.77 | 1 | 1.77 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.116166472 | 0.346176085 | 0.034617609 | 0.035 | 3.8 | 1 | 3.8 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.116166472 | 0.371732709 | 0.037173271 | 0.037 | 2.65 | 1 | 2.65 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.116166472 | 2.0445299 | 0.20445299 | 0.2 | 6.71 | 1 | 6.71 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.116166472 | 0.297386167 | 0.029738617 | 0.03 | 1.96 | 1 | 1.96 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.116166472 | 0.202129661 | 0.020212966 | 0.02 | 2.44 | 1 | 2.44 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.116166472 | 0.365924386 | 0.036592439 | 0.037 | 2.96 | 1 | 2.96 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.116166472 | 0.319457797 | 0.03194578 | 0.032 | 3.17 | 1 | 3.17 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.116166472 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.116166472 | 0.418199298 | 0.04181993 | 0.042 | 3.06 | 1 | 3.06 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.116166472 | 0.706292147 | 0.070629215 | 0.071 | 7.38 | 1 | 7.38 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.116166472 | 0.61335897 | 0.061335897 | 0.061 | 5.2 | 1 | 5.2 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.116166472 | 0.466989216 | 0.046698922 | 0.047 | 3.36 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.116166472 | 0.87938019 | 0.087938019 | 0.088 | 7.73 | 1 | 7.73 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.116166472 | 0.236979602 | 0.02369796 | 0.024 | 1.86 | 1 | 1.86 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.116166472 | 0.813165301 | 0.08131653 | 0.081 | 5.54 | 1 | 5.54 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.116166472 | 0.771345371 | 0.077134537 | 0.077 | 4.66 | 1 | 4.66 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.116166472 | 0.370571044 | 0.037057104 | 0.037 | 1.91 | 1 | 1.91 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.116166472 | 0.248596249 | 0.024859625 | 0.025 | 1.06 | 1 | 1.06 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.116166472 | 0.788770342 | 0.078877034 | 0.079 | 3.08 | 1 | 3.08 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.116166472 | 0.486737516 | 0.048673752 | 0.049 | 6.47 | 1 | 6.47 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.116166472 | 0 | 0 | 0 | 3.61 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.116166472 | 0 | 0 | 0 | 6.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.116166472 | 0.276476202 | 0.02764762 | 0.028 | 4.11 | 1 | 4.11 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.116166472 | 0.217231302 | 0.02172313 | 0.022 | 2.84 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.116166472 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.116166472 | 0.221877961 | 0.022187796 | 0.022 | 3.64 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.116166472 | 0.614520635 | 0.061452063 | 0.061 | 6.01 | 1 | 6.01 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.116166472 | 0.861955219 | 0.086195522 | 0.086 | 3.59 | 1 | 3.59 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.116166472 | 0.465827551 | 0.046582755 | 0.047 | 4.81 | 1 | 4.81 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.116166472 | 0.643562253 | 0.064356225 | 0.064 | 6.06 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.116166472 | 0 | 0 | 0 | 2.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.116166472 | 0.350822744 | 0.035082274 | 0.035 | 3.1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.116166472 | 1.081509851 | 0.108150985 | 0.11 | 7.81 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.116166472 | 0.649370576 | 0.064937058 | 0.065 | 3.51 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.116166472 | 0.42865428 | 0.042865428 | 0.043 | 5 | 1 | 5 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.116166472 | 1.417230954 | 0.141723095 | 0.14 | 8.21 | 1 | 8.21 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.116166472 | 0 | 0 | 0 | 1.07 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.116166472 | 0.277637867 | 0.027763787 | 0.028 | 2.22 | 1 | 2.22 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.116166472 | 0.557599064 | 0.055759906 | 0.056 | 5.9 | 1 | 5.9 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.116166472 | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.116166472 | 0.068538218 | 0.006853822 | 0.0069 | 0.81 | 1 | 0.81 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.116166472 | 0.134753107 | 0.013475311 | 0.013 | 1.4 | 1 | 1.4 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.116166472 | 0.022652462 | 0.002265246 | 0.0023 | 0.316 | 1 | 0.316 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.116166472 | 0.272991208 | 0.027299121 | 0.027 | 2.33 | 1 | 2.33 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.116166472 | 0.16263306 | 0.016263306 | 0.016 | 1.8 | 1 | 1.8 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.116166472 | 0.185866355 | 0.018586635 | 0.019 | 1.7 | 1 | 1.7 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.116166472 | 0.255566238 | 0.025556624 | 0.026 | 2.7 | 1 | 2.7 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.116166472 | 0.087124854 | 0.008712485 | 0.0087 | 1 | 1 | 1 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.116166472 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.116166472 | 0 | 0 | 0 | 2.17 | 1 | 2.17 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.116166472 | 0 | 0 | 0 | 1.17 | 1 | 1.17 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.116166472 | 0.062729895 | 0.006272989 | 0.0063 | 1.24 | 1 | 1.24 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.116166472 | 0.873571866 | 0.087357187 | 0.087 | 3.99 | 1 | 3.99 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.116166472 | 0.110358148 | 0.011035815 | 0.011 | 1.57 | 1 | 1.57 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.116166472 | 0.042981594 | 0.004298159 | 0.0043 | 0.49 | 1 | 0.49 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.116166472 | 0.127783119 | 0.012778312 | 0.013 | 2.1 | 1 | 2.1 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.116166472 | 0.127783119 | 0.012778312 | 0.013 | 1.9 | 1 | 1.9 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.116166472 | 0.732429603 | 0.07324296 | 0.073 | 3.67 | 1 | 3.67 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.116166472 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.116166472 | 0.437947598 | 0.04379476 | 0.044 | 2.59 | 1 | 2.59 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.116166472 | 0.121974795 | 0.01219748 | 0.012 | 1.83 | 1 | 1.83 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.116166472 | 0.274152873 | 0.027415287 | 0.027 | 3.735 | 1 | 3.735 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.116166472 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.116166472 | 0.360116062 | 0.036011606 | 0.036 | 2.2 | 1 | 2.2 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.116166472 | 0 | 0 | 0 | 2.77 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.116166472 | 0 | 0 | 0 | 1.89 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.116166472 | 0 | 0 | 0 | 1.45 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.116166472 | 0.139399766 | 0.013939977 | 0.014 | 1.5 | 1 | 1.5 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.116166472 | 0.104549824 | 0.010454982 | 0.01 | 0.9 | 1 | 0.9 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.116166472 | 1.161664716 | 0.116166472 | 0.12 | 5.42 | 1 | 5.42 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.116166472 | 0.110241982 | 0.011024198 | 0.011 | 0.708 | 1 | 0.708 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.116166472 | 0.144046425 | 0.014404642 | 0.014 | 0.989 | 1 | 0.989 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.116166472 | 0.221877961 | 0.022187796 | 0.022 | 1.65 | 1 | 1.65 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.116166472 | 0.152178078 | 0.015217808 | 0.015 | 1.1 | 1 | 1.1 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.116166472 | 0.319457797 | 0.03194578 | 0.032 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.116166472 | 0.202129661 | 0.020212966 | 0.02 | 1.83 | 1 | 1.83 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 2.5 | 1 | 2.5 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 2.6 | 1 | 2.6 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 2.07 | 1 | 2.07 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 2.24 | 1 | 2.24 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 2.03 | 1 | 2.03 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 3.09 | 1 | 3.09 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 0.659 | 1 | 0.659 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 2.58 | 1 | 2.58 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 2.86 | 1 | 2.86 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 2.78 | 1 | 2.78 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 2.25 | 1 | 2.25 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 3.2 | 1 | 3.2 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 3.42 | 1 | 3.42 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 3.23 | 1 | 3.23 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 1.62 | 1 | 1.62 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 1.39 | 1 | 1.39 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 6.22 | 1 | 6.22 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 2.96 | 1 | 2.96 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 2.11 | 1 | 2.11 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 4.91 | 1 | 4.91 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 1.69 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 1.38 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 3.12 | 1 | 3.12 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 2.33 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 4.3 | 1 | 4.3 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 4.76 | 1 | 4.76 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 1.77 | 1 | 1.77 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 3.8 | 1 | 3.8 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 2.65 | 1 | 2.65 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 6.71 | 1 | 6.71 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 1.96 | 1 | 1.96 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 2.44 | 1 | 2.44 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 2.96 | 1 | 2.96 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 3.17 | 1 | 3.17 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 3.06 | 1 | 3.06 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 7.38 | 1 | 7.38 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 5.2 | 1 | 5.2 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 3.36 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 7.73 | 1 | 7.73 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 1.86 | 1 | 1.86 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 5.54 | 1 | 5.54 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 4.66 | 1 | 4.66 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 1.06 | 1 | 1.06 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 6.47 | 1 | 6.47 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 3.61 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 6.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 4.11 | 1 | 4.11 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 2.84 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 3.64 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 6.01 | 1 | 6.01 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 3.59 | 1 | 3.59 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 4.81 | 1 | 4.81 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 6.06 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 2.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 3.1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 7.81 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 3.51 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 5 | 1 | 5 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 8.21 | 1 | 8.21 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 1.07 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 2.22 | 1 | 2.22 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 5.9 | 1 | 5.9 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 0.81 | 1 | 0.81 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 1.4 | 1 | 1.4 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 0.316 | 1 | 0.316 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 2.33 | 1 | 2.33 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 1.8 | 1 | 1.8 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 1.7 | 1 | 1.7 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 2.7 | 1 | 2.7 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 1 | 1 | 1 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 2.17 | 1 | 2.17 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 1.17 | 1 | 1.17 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 1.24 | 1 | 1.24 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 3.99 | 1 | 3.99 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 1.57 | 1 | 1.57 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 0.49 | 1 | 0.49 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 2.1 | 1 | 2.1 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 3.67 | 1 | 3.67 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 2.59 | 1 | 2.59 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 1.83 | 1 | 1.83 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 3.735 | 1 | 3.735 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 2.77 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 1.89 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 1.45 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 1.5 | 1 | 1.5 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 0.9 | 1 | 0.9 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 5.42 | 1 | 5.42 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 0.708 | 1 | 0.708 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 0.989 | 1 | 0.989 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 1.65 | 1 | 1.65 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 1.83 | 1 | 1.83 | 0.1 | NA | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.001314286 | 0.002497143 | 0.000249714 | 0.00025 | 2.5 | 1 | 2.5 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.001314286 | 0.00552 | 0.000552 | 0.00055 | 2.6 | 1 | 2.6 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.001314286 | 0.005914286 | 0.000591429 | 0.00059 | 3.9 | 1 | 3.9 | 0.1 | 0 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.001314286 | 0.003482857 | 0.000348286 | 0.00035 | 2.07 | 1 | 2.07 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.001314286 | 0.004376571 | 0.000437657 | 0.00044 | 2.24 | 1 | 2.24 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.001314286 | 0.002838857 | 0.000283886 | 0.00028 | 2.03 | 1 | 2.03 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.001314286 | 0.004626286 | 0.000462629 | 0.00046 | 3.09 | 1 | 3.09 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.001314286 | 0.000644 | 0.0000644 | 0.000064 | 0.659 | 1 | 0.659 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.001314286 | 0.003206857 | 0.000320686 | 0.00032 | 2.58 | 1 | 2.58 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.001314286 | 0.003101714 | 0.000310171 | 0.00031 | 2.86 | 1 | 2.86 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.001314286 | 0.003706286 | 0.000370629 | 0.00037 | 2.78 | 1 | 2.78 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.001314286 | 0.002286857 | 0.000228686 | 0.00023 | 2.25 | 1 | 2.25 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.001314286 | 0.003167429 | 0.000316743 | 0.00032 | 3.2 | 1 | 3.2 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.001314286 | 0.003614286 | 0.000361429 | 0.00036 | 3.42 | 1 | 3.42 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.001314286 | | | | | | | 0.1 | 0 | | | |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.001314286 | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.001314286 | 0.004455429 | 0.000445543 | 0.00045 | 3.23 | 1 | 3.23 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.001314286 | 0.001524571 | 0.000152457 | 0.00015 | 1.62 | 1 | 1.62 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.001314286 | 0.001309029 | 0.000130903 | 0.00013 | 1.39 | 1 | 1.39 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.001314286 | 0.009213143 | 0.000921314 | 0.00092 | 6.22 | 1 | 6.22 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.001314286 | 0 | 0 | 0 | 2.96 | 1 | 2.96 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.001314286 | 0.001971429 | 0.000197143 | 0.0002 | 2.11 | 1 | 2.11 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.001314286 | 0.00506 | 0.000506 | 0.00051 | 4.91 | 1 | 4.91 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.001314286 | 0.001656 | 0.0001656 | 0.00017 | 1.69 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.001314286 | 0 | 0 | 0 | 1.38 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.001314286 | 0.004481714 | 0.000448171 | 0.00045 | 3.12 | 1 | 3.12 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.001314286 | 0 | 0 | 0 | 2.33 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.001314286 | 0.004784 | 0.0004784 | 0.00048 | 4.3 | 1 | 4.3 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.001314286 | 0.007084 | 0.0007084 | 0.00071 | 4.76 | 1 | 4.76 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.001314286 | 0.001879429 | 0.000187943 | 0.00019 | 1.77 | 1 | 1.77 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.001314286 | 0.003916571 | 0.000391657 | 0.00039 | 3.8 | 1 | 3.8 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.001314286 | 0.004205714 | 0.000420571 | 0.00042 | 2.65 | 1 | 2.65 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.001314286 | 0.023131429 | 0.002313143 | 0.0023 | 6.71 | 1 | 6.71 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.001314286 | 0.003364571 | 0.000336457 | 0.00034 | 1.96 | 1 | 1.96 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.001314286 | 0.002286857 | 0.000228686 | 0.00023 | 2.44 | 1 | 2.44 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.001314286 | 0.00414 | 0.000414 | 0.00041 | 2.96 | 1 | 2.96 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.001314286 | 0.003614286 | 0.000361429 | 0.00036 | 3.17 | 1 | 3.17 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.001314286 | | | | | | | 0.1 | 0 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.001314286 | 0.004731429 | 0.000473143 | 0.00047 | 3.06 | 1 | 3.06 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.001314286 | 0.007990857 | 0.000799086 | 0.0008 | 7.38 | 1 | 7.38 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.001314286 | 0.006939429 | 0.000693943 | 0.00069 | 5.2 | 1 | 5.2 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.001314286 | 0.005283429 | 0.000528343 | 0.00053 | 3.36 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.001314286 | 0.009949143 | 0.000994914 | 0.00099 | 7.73 | 1 | 7.73 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.001314286 | 0.002681143 | 0.000268114 | 0.00027 | 1.86 | 1 | 1.86 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.001314286 | 0.0092 | 0.00092 | 0.00092 | 5.54 | 1 | 5.54 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.001314286 | 0.008726857 | 0.000872686 | 0.00087 | 4.66 | 1 | 4.66 | 0.1 | 0 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.001314286 | 0.004192571 | 0.000419257 | 0.00042 | 1.91 | 1 | 1.91 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.001314286 | 0.002812571 | 0.000281257 | 0.00028 | 1.06 | 1 | 1.06 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.001314286 | 0.008924 | 0.0008924 | 0.00089 | 3.08 | 1 | 3.08 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.001314286 | 0.005506857 | 0.000550686 | 0.00055 | 6.47 | 1 | 6.47 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.001314286 | 0 | 0 | 0 | 3.61 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.001314286 | 0 | 0 | 0 | 6.13 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.001314286 | 0.003128 | 0.0003128 | 0.00031 | 4.11 | 1 | 4.11 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.001314286 | 0.002457714 | 0.000245771 | 0.00025 | 2.84 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.001314286 | | | | | | | 0.1 | 0 | | | |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.001314286 | 0.002510286 | 0.000251029 | 0.00025 | 3.64 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.001314286 | 0.006952571 | 0.000695257 | 0.0007 | 6.01 | 1 | 6.01 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.001314286 | 0.009752 | 0.0009752 | 0.00098 | 3.59 | 1 | 3.59 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.001314286 | 0.005270286 | 0.000527029 | 0.00053 | 4.81 | 1 | 4.81 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.001314286 | 0.007281143 | 0.000728114 | 0.00073 | 6.06 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.001314286 | 0 | 0 | 0 | 2.23 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.001314286 | 0.003969143 | 0.000396914 | 0.0004 | 3.1 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.001314286 | 0.012236 | 0.0012236 | 0.0012 | 7.81 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.001314286 | 0.007346857 | 0.000734686 | 0.00073 | 3.51 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.001314286 | 0.004849714 | 0.000484971 | 0.00048 | 5 | 1 | 5 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.001314286 | 0.016034286 | 0.001603429 | 0.0016 | 8.21 | 1 | 8.21 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.001314286 | 0 | 0 | 0 | 1.07 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.001314286 | 0.003141143 | 0.000314114 | 0.00031 | 2.22 | 1 | 2.22 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.001314286 | 0.006308571 | 0.000630857 | 0.00063 | 5.9 | 1 | 5.9 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.001314286 | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.001314286 | 0.000775429 | 7.75429E-05 | 0.000078 | 0.81 | 1 | 0.81 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.001314286 | 0.001524571 | 0.000152457 | 0.00015 | 1.4 | 1 | 1.4 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.001314286 | 0.000256286 | 2.56286E-05 | 0.000026 | 0.316 | 1 | 0.316 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.001314286 | 0.003088571 | 0.000308857 | 0.00031 | 2.33 | 1 | 2.33 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.001314286 | 0.00184 | 0.000184 | 0.00018 | 1.8 | 1 | 1.8 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.001314286 | 0.002102857 | 0.000210286 | 0.00021 | 1.7 | 1 | 1.7 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.001314286 | 0.002891429 | 0.000289143 | 0.00029 | 2.7 | 1 | 2.7 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.001314286 | 0.000985714 | 9.85714E-05 | 0.000099 | 1 | 1 | 1 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.001314286 | | | | | | | 0.1 | 0 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.001314286 | 0 | 0 | 0 | 2.17 | 1 | 2.17 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.001314286 | 0 | 0 | 0 | 1.17 | 1 | 1.17 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.001314286 | 0.000709714 | 7.09714E-05 | 0.000071 | 1.24 | 1 | 1.24 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.001314286 | 0.009883429 | 0.000988343 | 0.00099 | 3.99 | 1 | 3.99 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.001314286 | 0.001248571 | 0.000124857 | 0.00012 | 1.57 | 1 | 1.57 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.001314286 | 0.000486286 | 4.86286E-05 | 0.000049 | 0.49 | 1 | 0.49 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.001314286 | 0.001445714 | 0.000144571 | 0.00014 | 2.1 | 1 | 2.1 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.001314286 | 0.001445714 | 0.000144571 | 0.00014 | 1.9 | 1 | 1.9 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.001314286 | 0.008286571 | 0.000828657 | 0.00083 | 3.67 | 1 | 3.67 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.001314286 | | | | | | | 0.1 | 0 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.001314286 | 0.004954857 | 0.000495486 | 0.0005 | 2.59 | 1 | 2.59 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.001314286 | 0.00138 | 0.000138 | 0.00014 | 1.83 | 1 | 1.83 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.001314286 | 0.003101714 | 0.000310171 | 0.00031 | 3.735 | 1 | 3.735 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.001314286 | | | | | | | 0.1 | 0 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.001314286 | 0.004074286 | 0.000407429 | 0.00041 | 2.2 | 1 | 2.2 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.001314286 | 0 | 0 | 0 | 2.77 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.001314286 | 0 | 0 | 0 | 1.89 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.001314286 | 0 | 0 | 0 | 1.45 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.001314286 | 0.001577143 | 0.000157714 | 0.00016 | 1.5 | 1 | 1.5 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.001314286 | 0.001182857 | 0.000118286 | 0.00012 | 0.9 | 1 | 0.9 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.001314286 | 0.013142857 | 0.001314286 | 0.0013 | 5.42 | 1 | 5.42 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.001314286 | 0.001247257 | 0.000124726 | 0.00012 | 0.708 | 1 | 0.708 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.001314286 | 0.001629714 | 0.000162971 | 0.00016 | 0.989 | 1 | 0.989 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.001314286 | 0.002510286 | 0.000251029 | 0.00025 | 1.65 | 1 | 1.65 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.001314286 | 0.001721714 | 0.000172171 | 0.00017 | 1.1 | 1 | 1.1 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.001314286 | 0.003614286 | 0.000361429 | 0.00036 | 2.92 | 1 | 2.92 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.001314286 | 0.002286857 | 0.000228686 | 0.00023 | 1.83 | 1 | 1.83 | 0.1 | 0 | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 14.71157569 | 1.912504839 | 0.191250484 | 0.19 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 14.71157569 | 45.31165312 | 4.531165312 | 4.5 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.71157569 | 9.85675571 | 0.985675571 | 0.99 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 14.71157569 | 49.43089431 | 4.943089431 | 4.9 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 14.71157569 | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 14.71157569 | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 14.71157569 | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 14.71157569 | 54.43283004 | 5.443283004 | 5.4 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 14.71157569 | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 14.71157569 | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 14.71157569 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 14.71157569 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 14.71157569 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 14.71157569 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.503966706 | 0.065515672 | 0.006551567 | 0.0066 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.503966706 | 1.552217454 | 0.155221745 | 0.16 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.503966706 | 0.337657693 | 0.033765769 | 0.034 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.503966706 | 1.693328131 | 0.169332813 | 0.17 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.503966706 | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.503966706 | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.503966706 | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.503966706 | 1.864676811 | 0.186467681 | 0.19 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.503966706 | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.503966706 | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.503966706 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.503966706 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.503966706 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.503966706 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 71.8 | 1 | 71.8 | 0.01 | 0.042395714 | 3.044012299 | 0.030440123 | 0.03 | 3000 | 1 | 3000 | 0.0003 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 135 | 1 | 135 | 0.01 | 0.042395714 | 5.723421453 | 0.057234215 | 0.057 | 2990 | 1 | 2990 | 0.0003 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 140 | 1 | 140 | 0.01 | 0.042395714 | 5.935400025 | 0.059354 | 0.059 | 3160 | 1 | 3160 | 0.0003 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 63 | 1 | 63 | 0.01 | 0.042395714 | 2.670930011 | 0.0267093 | 0.027 | 1750 | 1 | 1750 | 0.0003 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 94.7 | 1 | 94.7 | 0.01 | 0.042395714 | 4.01487416 | 0.040148742 | 0.04 | 2180 | 1 | 2180 | 0.0003 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 89.8 | 1 | 89.8 | 0.01 | 0.042395714 | 3.807135159 | 0.038071352 | 0.038 | 3070 | 1 | 3070 | 0.0003 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 109 | 1 | 109 | 0.01 | 0.042395714 | 4.621132877 | 0.046211329 | 0.046 | 2260 | 1 | 2260 | 0.0003 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 22.5 | 1 | 22.5 | 0.01 | 0.042395714 | 0.953903576 | 0.009539036 | 0.0095 | 1330 | 1 | 1330 | 0.0003 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 119 | 1 | 119 | 0.01 | 0.042395714 | 5.045090022 | 0.0504509 | 0.05 | 6850 | 1 | 6850 | 0.0003 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 120 | 1 | 120 | 0.01 | 0.042395714 | 5.087485736 | 0.050874857 | 0.051 | 5880 | 1 | 5880 | 0.0003 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 76.8 | 1 | 76.8 | 0.01 | 0.042395714 | 3.255990871 | 0.032559909 | 0.033 | 2100 | 1 | 2100 | 0.0003 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 105 | 1 | 105 | 0.01 | 0.042395714 | 4.451550019 | 0.0445155 | 0.045 | 8070 | 1 | 8070 | 0.0003 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 105 | 1 | 105 | 0.01 | 0.042395714 | 4.451550019 | 0.0445155 | 0.045 | 6150 | 1 | 6150 | 0.0003 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 109 | 1 | 109 | 0.01 | 0.042395714 | 4.621132877 | 0.046211329 | 0.046 | 5690 | 1 | 5690 | 0.0003 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.01 | 0.042395714 | | | | | | | 0.0003 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 67.2 | 1 | 67.2 | 0.01 | 0.042395714 | 2.848992012 | 0.02848992 | 0.028 | 1940 | 1 | 1940 | 0.0003 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 111 | 1 | 111 | 0.01 | 0.042395714 | 4.705924306 | 0.047059243 | 0.047 | 4010 | 1 | 4010 | 0.0003 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 63.8 | 1 | 63.8 | 0.01 | 0.042395714 | 2.704846583 | 0.027048466 | 0.027 | 5000 | 1 | 5000 | 0.0003 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 55.5 | 1 | 55.5 | 0.01 | 0.042395714 | 2.352962153 | 0.023529622 | 0.024 | 3670 | 1 | 3670 | 0.0003 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 178 | 1 | 178 | 0.01 | 0.042395714 | 7.546437175 | 0.075464372 | 0.075 | 3230 | 1 | 3230 | 0.0003 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 131 | 1 | 131 | 0.01 | 0.042395714 | 5.553838595 | 0.055538386 | 0.056 | 5170 | 1 | 5170 | 0.0003 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 51.8 | 1 | 51.8 | 0.01 | 0.042395714 | 2.196098009 | 0.02196098 | 0.022 | 1590 | 1 | 1590 | 0.0003 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 126 | 1 | 126 | 0.01 | 0.042395714 | 5.341860023 | 0.0534186 | 0.053 | 2920 | 1 | 2920 | 0.0003 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 45.8 | 1 | 45.8 | 0.01 | 0.042395714 | 1.941723723 | 0.019417237 | 0.019 | 2100 | 1 | 2100 | 0.0003 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 26.5 | 1 | 26.5 | 0.01 | 0.042395714 | 1.123486433 | 0.011234864 | 0.011 | 874 | 1 | 874 | 0.0003 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 66.2 | 1 | 66.2 | 0.01 | 0.042395714 | 2.806596298 | 0.028065963 | 0.028 | 1600 | 1 | 1600 | 0.0003 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 50.2 | 1 | 50.2 | 0.01 | 0.042395714 | 2.128264866 | 0.021282649 | 0.021 | 1680 | 1 | 1680 | 0.0003 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 87 | 1 | 87 | 0.01 | 0.042395714 | 3.688427159 | 0.036884272 | 0.037 | 1690 | 1 | 1690 | 0.0003 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 123 | 1 | 123 | 0.01 | 0.042395714 | 5.214672879 | 0.052146729 | 0.052 | 1920 | 1 | 1920 | 0.0003 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 51.1 | 1 | 51.1 | 0.01 | 0.042395714 | 2.166421009 | 0.02166421 | 0.022 | 1840 | 1 | 1840 | 0.0003 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 64.9 | 1 | 64.9 | 0.01 | 0.042395714 | 2.751481869 | 0.027514819 | 0.028 | 1200 | 1 | 1200 | 0.0003 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 81.2 | 1 | 81.2 | 0.01 | 0.042395714 | 3.442532015 | 0.03442532 | 0.034 | 1320 | 1 | 1320 | 0.0003 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 425 | 1 | 425 | 0.01 | 0.042395714 | 18.01817865 | 0.180181786 | 0.18 | 6520 | 1 | 6520 | 0.0003 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 64.4 | 1 | 64.4 | 0.01 | 0.042395714 | 2.730284012 | 0.02730284 | 0.027 | 1260 | 1 | 1260 | 0.0003 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 73.1 | 1 | 73.1 | 0.01 | 0.042395714 | 3.099126728 | 0.030991267 | 0.031 | 2600 | 1 | 2600 | 0.0003 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 96.6 | 1 | 96.6 | 0.01 | 0.042395714 | 4.095426017 | 0.04095426 | 0.041 | 2390 | 1 | 2390 | 0.0003 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 75.25 | 1 | 75.25 | 0.01 | 0.042395714 | 3.190277514 | 0.031902775 | 0.032 | 2040 | 1 | 2040 | 0.0003 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.01 | 0.042395714 | | | | | | | 0.0003 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 109 | 1 | 109 | 0.01 | 0.042395714 | 4.621132877 | 0.046211329 | 0.046 | 2240 | 1 | 2240 | 0.0003 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 125 | 1 | 125 | 0.01 | 0.042395714 | 5.299464308 | 0.052994643 | 0.053 | 1880 | 1 | 1880 | 0.0003 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 136 | 1 | 136 | 0.01 | 0.042395714 | 5.765817167 | 0.057658172 | 0.058 | 2410 | 1 | 2410 | 0.0003 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 97.8 | 1 | 97.8 | 0.01 | 0.042395714 | 4.146300875 | 0.041463009 | 0.041 | 1750 | 1 | 1750 | 0.0003 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 191 | 1 | 191 | 0.01 | 0.042395714 | 8.097581463 | 0.080975815 | 0.081 | 3150 | 1 | 3150 | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 61.8 | 1 | 61.8 | 0.01 | 0.042395714 | 2.620055154 | 0.026200552 | 0.026 | 1950 | 1 | 1950 | 0.0003 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 162 | 1 | 162 | 0.01 | 0.042395714 | 6.868105744 | 0.068681057 | 0.069 | 2830 | 1 | 2830 | 0.0003 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 161 | 1 | 161 | 0.01 | 0.042395714 | 6.825710029 | 0.0682571 | 0.068 | 4240 | 1 | 4240 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 69.9 | 1 | 69.9 | 0.01 | 0.042395714 | 2.963460441 | 0.029634604 | 0.03 | 1480 | 1 | 1480 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 41.7 | 1 | 41.7 | 0.01 | 0.042395714 | 1.767901293 | 0.017679013 | 0.018 | 872 | 1 | 872 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 141 | 1 | 141 | 0.01 | 0.042395714 | 5.97779574 | 0.059777957 | 0.06 | 2940 | 1 | 2940 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 99 | 1 | 99 | 0.01 | 0.042395714 | 4.197175732 | 0.041971757 | 0.042 | 2540 | 1 | 2540 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 75.7 | 1 | 75.7 | 0.01 | 0.042395714 | 3.209355585 | 0.032093556 | 0.032 | 2180 | 1 | 2180 | 0.0003 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 115 | 1 | 115 | 0.01 | 0.042395714 | 4.875507164 | 0.048755072 | 0.049 | 2820 | 1 | 2820 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 58.4 | 1 | 58.4 | 0.01 | 0.042395714 | 2.475909725 | 0.024759097 | 0.025 | 1460 | 1 | 1460 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 27.1 | 1 | 27.1 | 0.01 | 0.042395714 | 1.148923862 | 0.011489239 | 0.011 | 441 | 1 | 441 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.01 | 0.042395714 | | | | | | | 0.0003 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 40.5 | 1 | 40.5 | 0.01 | 0.042395714 | 1.717026436 | 0.017170264 | 0.017 | 2230 | 1 | 2230 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 166 | 1 | 166 | 0.01 | 0.042395714 | 7.037688601 | 0.070376886 | 0.07 | 3700 | 1 | 3700 | 0.0003 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 137 | 1 | 137 | 0.01 | 0.042395714 | 5.808212882 | 0.058082129 | 0.058 | 1730 | 1 | 1730 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 105 | 1 | 105 | 0.01 | 0.042395714 | 4.451550019 | 0.0445155 | 0.045 | 2100 | 1 | 2100 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 139 | 1 | 139 | 0.01 | 0.042395714 | 5.893004311 | 0.058930043 | 0.059 | 2610 | 1 | 2610 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 82.5 | 1 | 82.5 | 0.01 | 0.042395714 | 3.497646444 | 0.034976464 | 0.035 | 4440 | 1 | 4440 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 67 | 1 | 67 | 0.01 | 0.042395714 | 2.840512869 | 0.028405129 | 0.028 | 1750 | 1 | 1750 | 0.0003 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 172 | 1 | 172 | 0.01 | 0.042395714 | 7.292062888 | 0.072920629 | 0.073 | 2870 | 1 | 2870 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 111 | 1 | 111 | 0.01 | 0.042395714 | 4.705924306 | 0.047059243 | 0.047 | 1470 | 1 | 1470 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 89.9 | 1 | 89.9 | 0.01 | 0.042395714 | 3.811374731 | 0.038113747 | 0.038 | 2010 | 1 | 2010 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 296 | 1 | 296 | 0.01 | 0.042395714 | 12.54913148 | 0.125491315 | 0.13 | 5020 | 1 | 5020 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 25.6 | 1 | 25.6 | 0.01 | 0.042395714 | 1.08533029 | 0.010853303 | 0.011 | 582 | 1 | 582 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 64 | 1 | 64 | 0.01 | 0.042395714 | 2.713325726 | 0.027133257 | 0.027 | 1150 | 1 | 1150 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 135 | 1 | 135 | 0.01 | 0.042395714 | 5.723421453 | 0.057234215 | 0.057 | 2010 | 1 | 2010 | 0.0003 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 71.9 | 1 | 71.9 | 0.01 | 0.042395714 | 3.04825187 | 0.030482519 | 0.03 | 1760 | 1 | 1760 | 0.0003 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 33.3 | 1 | 33.3 | 0.01 | 0.042395714 | 1.411777292 | 0.014117773 | 0.014 | 2090 | 1 | 2090 | 0.0003 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 55.1 | 1 | 55.1 | 0.01 | 0.042395714 | 2.336003867 | 0.023360039 | 0.023 | 2130 | 1 | 2130 | 0.0003 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 11.8 | 1 | 11.8 | 0.01 | 0.042395714 | 0.500269431 | 0.005002694 | 0.005 | 1290 | 1 | 1290 | 0.0003 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 86.8 | 1 | 86.8 | 0.01 | 0.042395714 | 3.679948016 | 0.03679948 | 0.037 | 2730 | 1 | 2730 | 0.0003 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 51.3 | 1 | 51.3 | 0.01 | 0.042395714 | 2.174900152 | 0.021749002 | 0.022 | 2360 | 1 | 2360 | 0.0003 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 59.3 | 1 | 59.3 | 0.01 | 0.042395714 | 2.514065868 | 0.025140659 | 0.025 | 1950 | 1 | 1950 | 0.0003 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 86.1 | 1 | 86.1 | 0.01 | 0.042395714 | 3.650271016 | 0.03650271 | 0.037 | 3450 | 1 | 3450 | 0.0003 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 41.4 | 1 | 41.4 | 0.01 | 0.042395714 | 1.755182579 | 0.017551826 | 0.018 | 2705 | 1 | 2705 | 0.0003 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.01 | 0.042395714 | | | | | | | 0.0003 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 52.2 | 1 | 52.2 | 0.01 | 0.042395714 | 2.213056295 | 0.022130563 | 0.022 | 1890 | 1 | 1890 | 0.0003 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 38.2 | 1 | 38.2 | 0.01 | 0.042395714 | 1.619516293 | 0.016195163 | 0.016 | 1010 | 1 | 1010 | 0.0003 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 36 | 1 | 36 | 0.01 | 0.042395714 | 1.526245721 | 0.015262457 | 0.015 | 2170 | 1 | 2170 | 0.0003 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 168 | 1 | 168 | 0.01 | 0.042395714 | 7.12248003 | 0.0712248 | 0.071 | 2980 | 1 | 2980 | 0.0003 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 55.2 | 1 | 55.2 | 0.01 | 0.042395714 | 2.340243439 | 0.023402434 | 0.023 | 3220 | 1 | 3220 | 0.0003 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 17.7 | 1 | 17.7 | 0.01 | 0.042395714 | 0.750404146 | 0.007504041 | 0.0075 | 1660 | 1 | 1660 | 0.0003 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 62.3 | 1 | 62.3 | 0.01 | 0.042395714 | 2.641253011 | 0.02641253 | 0.026 | 2130 | 1 | 2130 | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 68.3 | 1 | 68.3 | 0.01 | 0.042395714 | 2.895627298 | 0.028956273 | 0.029 | 2710 | 1 | 2710 | 0.0003 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 143.5 | 1 | 143.5 | 0.01 | 0.042395714 | 6.083785026 | 0.06083785 | 0.061 | 2595 | 1 | 2595 | 0.0003 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.01 | 0.042395714 | | | | | | | 0.0003 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 106 | 1 | 106 | 0.01 | 0.042395714 | 4.493945733 | 0.044939457 | 0.045 | 1750 | 1 | 1750 | 0.0003 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 41.3 | 1 | 41.3 | 0.01 | 0.042395714 | 1.750943007 | 0.01750943 | 0.018 | 2380 | 1 | 2380 | 0.0003 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 59.2 | 1 | 59.2 | 0.01 | 0.042395714 | 2.509826296 | 0.025098263 | 0.025 | 3240 | 1 | 3240 | 0.0003 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.01 | 0.042395714 | | | | | | | 0.0003 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 79.8 | 1 | 79.8 | 0.01 | 0.042395714 | 3.383178014 | 0.03383178 | 0.034 | 1210 | 1 | 1210 | 0.0003 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 105 | 1 | 105 | 0.01 | 0.042395714 | 4.451550019 | 0.0445155 | 0.045 | 2130 | 1 | 2130 | 0.0003 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 77.6 | 1 | 77.6 | 0.01 | 0.042395714 | 3.289907443 | 0.032899074 | 0.033 | 1630 | 1 | 1630 | 0.0003 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 32.8 | 1 | 32.8 | 0.01 | 0.042395714 | 1.390579435 | 0.013905794 | 0.014 | 977 | 1 | 977 | 0.0003 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 38.1 | 1 | 38.1 | 0.01 | 0.042395714 | 1.615276721 | 0.016152767 | 0.016 | 924 | 1 | 924 | 0.0003 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 28.1 | 1 | 28.1 | 0.01 | 0.042395714 | 1.191319577 | 0.011913196 | 0.012 | 899 | 1 | 899 | 0.0003 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 250 | 1 | 250 | 0.01 | 0.042395714 | 10.59892862 | 0.105989286 | 0.11 | 4200 | 1 | 4200 | 0.0003 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 25.5 | 1 | 25.5 | 0.01 | 0.042395714 | 1.081090719 | 0.010810907 | 0.011 | 590 | 1 | 590 | 0.0003 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 40.8 | 1 | 40.8 | 0.01 | 0.042395714 | 1.72974515 | 0.017297452 | 0.017 | 1080 | 1 | 1080 | 0.0003 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 58.8 | 1 | 58.8 | 0.01 | 0.042395714 | 2.492868011 | 0.02492868 | 0.025 | 1320 | 1 | 1320 | 0.0003 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 27.9 | 1 | 27.9 | 0.01 | 0.042395714 | 1.182840434 | 0.011828404 | 0.012 | 353 | 1 | 353 | 0.0003 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 135 | 1 | 135 | 0.01 | 0.042395714 | 5.723421453 | 0.057234215 | 0.057 | 9960 | 1 | 9960 | 0.0003 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 48 | 1 | 48 | 0.01 | 0.042395714 | 2.034994294 | 0.020349943 | 0.02 | 1490 | 1 | 1490 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 71.8 | 1 | 71.8 | 0.01 | 0.135883498 | 9.756435144 | 0.097564351 | 0.098 | 3000 | 1 | 3000 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 135 | 1 | 135 | 0.01 | 0.135883498 | 18.34427221 | 0.183442722 | 0.18 | 2990 | 1 | 2990 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 140 | 1 | 140 | 0.01 | 0.135883498 | 19.0236897 | 0.190236897 | 0.19 | 3160 | 1 | 3160 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 63 | 1 | 63 | 0.01 | 0.135883498 | 8.560660363 | 0.085606604 | 0.086 | 1750 | 1 | 1750 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 94.7 | 1 | 94.7 | 0.01 | 0.135883498 | 12.86816724 | 0.128681672 | 0.13 | 2180 | 1 | 2180 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 89.8 | 1 | 89.8 | 0.01 | 0.135883498 | 12.20233811 | 0.122023381 | 0.12 | 3070 | 1 | 3070 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 109 | 1 | 109 | 0.01 | 0.135883498 | 14.81130126 | 0.148113013 | 0.15 | 2260 | 1 | 2260 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 22.5 | 1 | 22.5 | 0.01 | 0.135883498 | 3.057378701 | 0.030573787 | 0.031 | 1330 | 1 | 1330 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 119 | 1 | 119 | 0.01 | 0.135883498 | 16.17013624 | 0.161701362 | 0.16 | 6850 | 1 | 6850 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 120 | 1 | 120 | 0.01 | 0.135883498 | 16.30601974 | 0.163060197 | 0.16 | 5880 | 1 | 5880 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 76.8 | 1 | 76.8 | 0.01 | 0.135883498 | 10.43585263 | 0.104358526 | 0.1 | 2100 | 1 | 2100 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 105 | 1 | 105 | 0.01 | 0.135883498 | 14.26776727 | 0.142677673 | 0.14 | 8070 | 1 | 8070 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 105 | 1 | 105 | 0.01 | 0.135883498 | 14.26776727 | 0.142677673 | 0.14 | 6150 | 1 | 6150 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 109 | 1 | 109 | 0.01 | 0.135883498 | 14.81130126 | 0.148113013 | 0.15 | 5690 | 1 | 5690 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.01 | 0.135883498 | | | | | | | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 67.2 | 1 | 67.2 | 0.01 | 0.135883498 | 9.131371054 | 0.091313711 | 0.091 | 1940 | 1 | 1940 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 111 | 1 | 111 | 0.01 | 0.135883498 | 15.08306826 | 0.150830683 | 0.15 | 4010 | 1 | 4010 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 63.8 | 1 | 63.8 | 0.01 | 0.135883498 | 8.669367162 | 0.086693672 | 0.087 | 5000 | 1 | 5000 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 55.5 | 1 | 55.5 | 0.01 | 0.135883498 | 7.54153413 | 0.075415341 | 0.075 | 3670 | 1 | 3670 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 178 | 1 | 178 | 0.01 | 0.135883498 | 24.18726261 | 0.241872626 | 0.24 | 3230 | 1 | 3230 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 131 | 1 | 131 | 0.01 | 0.135883498 | 17.80073822 | 0.178007382 | 0.18 | 5170 | 1 | 5170 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 51.8 | 1 | 51.8 | 0.01 | 0.135883498 | 7.038765188 | 0.070387652 | 0.07 | 1590 | 1 | 1590 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 126 | 1 | 126 | 0.01 | 0.135883498 | 17.12132073 | 0.171213207 | 0.17 | 2920 | 1 | 2920 | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 45.8 | 1 | 45.8 | 0.01 | 0.135883498 | 6.223464201 | 0.062234642 | 0.062 | 2100 | 1 | 2100 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 26.5 | 1 | 26.5 | 0.01 | 0.135883498 | 3.600912693 | 0.036009127 | 0.036 | 874 | 1 | 874 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 66.2 | 1 | 66.2 | 0.01 | 0.135883498 | 8.995487557 | 0.089954876 | 0.09 | 1600 | 1 | 1600 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 50.2 | 1 | 50.2 | 0.01 | 0.135883498 | 6.821351591 | 0.068213516 | 0.068 | 1680 | 1 | 1680 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 87 | 1 | 87 | 0.01 | 0.135883498 | 11.82186431 | 0.118218643 | 0.12 | 1690 | 1 | 1690 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 123 | 1 | 123 | 0.01 | 0.135883498 | 16.71367023 | 0.167136702 | 0.17 | 1920 | 1 | 1920 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 51.1 | 1 | 51.1 | 0.01 | 0.135883498 | 6.943646739 | 0.069436467 | 0.069 | 1840 | 1 | 1840 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 64.9 | 1 | 64.9 | 0.01 | 0.135883498 | 8.818839009 | 0.08818839 | 0.088 | 1200 | 1 | 1200 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 81.2 | 1 | 81.2 | 0.01 | 0.135883498 | 11.03374002 | 0.1103374 | 0.11 | 1320 | 1 | 1320 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 425 | 1 | 425 | 0.01 | 0.135883498 | 57.75048658 | 0.577504866 | 0.58 | 6520 | 1 | 6520 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 64.4 | 1 | 64.4 | 0.01 | 0.135883498 | 8.75089726 | 0.087508973 | 0.088 | 1260 | 1 | 1260 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 73.1 | 1 | 73.1 | 0.01 | 0.135883498 | 9.933083692 | 0.099330837 | 0.099 | 2600 | 1 | 2600 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 96.6 | 1 | 96.6 | 0.01 | 0.135883498 | 13.12634589 | 0.131263459 | 0.13 | 2390 | 1 | 2390 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 75.25 | 1 | 75.25 | 0.01 | 0.135883498 | 10.22523321 | 0.102252332 | 0.1 | 2040 | 1 | 2040 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.01 | 0.135883498 | | | | | | | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 109 | 1 | 109 | 0.01 | 0.135883498 | 14.81130126 | 0.148113013 | 0.15 | 2240 | 1 | 2240 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 125 | 1 | 125 | 0.01 | 0.135883498 | 16.98543723 | 0.169854372 | 0.17 | 1880 | 1 | 1880 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 136 | 1 | 136 | 0.01 | 0.135883498 | 18.48015571 | 0.184801557 | 0.18 | 2410 | 1 | 2410 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 97.8 | 1 | 97.8 | 0.01 | 0.135883498 | 13.28940609 | 0.132894061 | 0.13 | 1750 | 1 | 1750 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 191 | 1 | 191 | 0.01 | 0.135883498 | 25.95374809 | 0.259537481 | 0.26 | 3150 | 1 | 3150 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 61.8 | 1 | 61.8 | 0.01 | 0.135883498 | 8.397600166 | 0.083976002 | 0.084 | 1950 | 1 | 1950 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 162 | 1 | 162 | 0.01 | 0.135883498 | 22.01312665 | 0.220131266 | 0.22 | 2830 | 1 | 2830 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 161 | 1 | 161 | 0.01 | 0.135883498 | 21.87724315 | 0.218772432 | 0.22 | 4240 | 1 | 4240 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 69.9 | 1 | 69.9 | 0.01 | 0.135883498 | 9.498256499 | 0.094982565 | 0.095 | 1480 | 1 | 1480 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 41.7 | 1 | 41.7 | 0.01 | 0.135883498 | 5.66634186 | 0.056663419 | 0.057 | 872 | 1 | 872 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 141 | 1 | 141 | 0.01 | 0.135883498 | 19.15957319 | 0.191595732 | 0.19 | 2940 | 1 | 2940 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 99 | 1 | 99 | 0.01 | 0.135883498 | 13.45246629 | 0.134524663 | 0.13 | 2540 | 1 | 2540 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 75.7 | 1 | 75.7 | 0.01 | 0.135883498 | 10.28638079 | 0.102863808 | 0.1 | 2180 | 1 | 2180 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 115 | 1 | 115 | 0.01 | 0.135883498 | 15.62660225 | 0.156266023 | 0.16 | 2820 | 1 | 2820 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 58.4 | 1 | 58.4 | 0.01 | 0.135883498 | 7.935596273 | 0.079355963 | 0.079 | 1460 | 1 | 1460 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 27.1 | 1 | 27.1 | 0.01 | 0.135883498 | 3.682442791 | 0.036824428 | 0.037 | 441 | 1 | 441 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.01 | 0.135883498 | | | | | | | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 40.5 | 1 | 40.5 | 0.01 | 0.135883498 | 5.503281662 | 0.055032817 | 0.055 | 2230 | 1 | 2230 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 166 | 1 | 166 | 0.01 | 0.135883498 | 22.55666064 | 0.225566606 | 0.23 | 3700 | 1 | 3700 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 137 | 1 | 137 | 0.01 | 0.135883498 | 18.6160392 | 0.186160392 | 0.19 | 1730 | 1 | 1730 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 105 | 1 | 105 | 0.01 | 0.135883498 | 14.26776727 | 0.142677673 | 0.14 | 2100 | 1 | 2100 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 139 | 1 | 139 | 0.01 | 0.135883498 | 18.8878062 | 0.188878062 | 0.19 | 2610 | 1 | 2610 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 82.5 | 1 | 82.5 | 0.01 | 0.135883498 | 11.21038857 | 0.112103886 | 0.11 | 4440 | 1 | 4440 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 67 | 1 | 67 | 0.01 | 0.135883498 | 9.104194355 | 0.091041944 | 0.091 | 1750 | 1 | 1750 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 172 | 1 | 172 | 0.01 | 0.135883498 | 23.37196163 | 0.233719616 | 0.23 | 2870 | 1 | 2870 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 111 | 1 | 111 | 0.01 | 0.135883498 | 15.08306826 | 0.150830683 | 0.15 | 1470 | 1 | 1470 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 89.9 | 1 | 89.9 | 0.01 | 0.135883498 | 12.21592646 | 0.122159265 | 0.12 | 2010 | 1 | 2010 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 296 | 1 | 296 | 0.01 | 0.135883498 | 40.22151536 | 0.402215154 | 0.4 | 5020 | 1 | 5020 | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 25.6 | 1 | 25.6 | 0.01 | 0.135883498 | 3.478617545 | 0.034786175 | 0.035 | 582 | 1 | 582 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 64 | 1 | 64 | 0.01 | 0.135883498 | 8.696543861 | 0.086965439 | 0.087 | 1150 | 1 | 1150 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 135 | 1 | 135 | 0.01 | 0.135883498 | 18.34427221 | 0.183442722 | 0.18 | 2010 | 1 | 2010 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 71.9 | 1 | 71.9 | 0.01 | 0.135883498 | 9.770023494 | 0.097700235 | 0.098 | 1760 | 1 | 1760 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 33.3 | 1 | 33.3 | 0.01 | 0.135883498 | 4.524920478 | 0.045249205 | 0.045 | 2090 | 1 | 2090 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 55.1 | 1 | 55.1 | 0.01 | 0.135883498 | 7.487180731 | 0.074871807 | 0.075 | 2130 | 1 | 2130 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 11.8 | 1 | 11.8 | 0.01 | 0.135883498 | 1.603425274 | 0.016034253 | 0.016 | 1290 | 1 | 1290 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 86.8 | 1 | 86.8 | 0.01 | 0.135883498 | 11.79468761 | 0.117946876 | 0.12 | 2730 | 1 | 2730 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 51.3 | 1 | 51.3 | 0.01 | 0.135883498 | 6.970823439 | 0.069708234 | 0.07 | 2360 | 1 | 2360 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 59.3 | 1 | 59.3 | 0.01 | 0.135883498 | 8.057891422 | 0.080578914 | 0.081 | 1950 | 1 | 1950 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 86.1 | 1 | 86.1 | 0.01 | 0.135883498 | 11.69956916 | 0.116995692 | 0.12 | 3450 | 1 | 3450 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 41.4 | 1 | 41.4 | 0.01 | 0.135883498 | 5.62557681 | 0.056255768 | 0.056 | 2705 | 1 | 2705 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.01 | 0.135883498 | | | | | | | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 52.2 | 1 | 52.2 | 0.01 | 0.135883498 | 7.093118587 | 0.070931186 | 0.071 | 1890 | 1 | 1890 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 38.2 | 1 | 38.2 | 0.01 | 0.135883498 | 5.190749617 | 0.051907496 | 0.052 | 1010 | 1 | 1010 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 36 | 1 | 36 | 0.01 | 0.135883498 | 4.891805922 | 0.048918059 | 0.049 | 2170 | 1 | 2170 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 168 | 1 | 168 | 0.01 | 0.135883498 | 22.82842764 | 0.228284276 | 0.23 | 2980 | 1 | 2980 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 55.2 | 1 | 55.2 | 0.01 | 0.135883498 | 7.50076908 | 0.075007691 | 0.075 | 3220 | 1 | 3220 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 17.7 | 1 | 17.7 | 0.01 | 0.135883498 | 2.405137912 | 0.024051379 | 0.024 | 1660 | 1 | 1660 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 62.3 | 1 | 62.3 | 0.01 | 0.135883498 | 8.465541915 | 0.084655419 | 0.085 | 2130 | 1 | 2130 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 68.3 | 1 | 68.3 | 0.01 | 0.135883498 | 9.280842902 | 0.092808429 | 0.093 | 2710 | 1 | 2710 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 143.5 | 1 | 143.5 | 0.01 | 0.135883498 | 19.49928194 | 0.194992819 | 0.19 | 2595 | 1 | 2595 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.01 | 0.135883498 | | | | | | | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 106 | 1 | 106 | 0.01 | 0.135883498 | 14.40365077 | 0.144036508 | 0.14 | 1750 | 1 | 1750 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 41.3 | 1 | 41.3 | 0.01 | 0.135883498 | 5.611988461 | 0.056119885 | 0.056 | 2380 | 1 | 2380 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 59.2 | 1 | 59.2 | 0.01 | 0.135883498 | 8.044303072 | 0.080443031 | 0.08 | 3240 | 1 | 3240 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.01 | 0.135883498 | | | | | | | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 79.8 | 1 | 79.8 | 0.01 | 0.135883498 | 10.84350313 | 0.108435031 | 0.11 | 1210 | 1 | 1210 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 105 | 1 | 105 | 0.01 | 0.135883498 | 14.26776727 | 0.142677673 | 0.14 | 2130 | 1 | 2130 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 77.6 | 1 | 77.6 | 0.01 | 0.135883498 | 10.54455943 | 0.105445594 | 0.11 | 1630 | 1 | 1630 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 32.8 | 1 | 32.8 | 0.01 | 0.135883498 | 4.456978729 | 0.044569787 | 0.045 | 977 | 1 | 977 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 38.1 | 1 | 38.1 | 0.01 | 0.135883498 | 5.177161267 | 0.051771613 | 0.052 | 924 | 1 | 924 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 28.1 | 1 | 28.1 | 0.01 | 0.135883498 | 3.818326289 | 0.038183263 | 0.038 | 899 | 1 | 899 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 250 | 1 | 250 | 0.01 | 0.135883498 | 33.97087446 | 0.339708745 | 0.34 | 4200 | 1 | 4200 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 25.5 | 1 | 25.5 | 0.01 | 0.135883498 | 3.465029195 | 0.034650292 | 0.035 | 590 | 1 | 590 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 40.8 | 1 | 40.8 | 0.01 | 0.135883498 | 5.544046712 | 0.055440467 | 0.055 | 1080 | 1 | 1080 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 58.8 | 1 | 58.8 | 0.01 | 0.135883498 | 7.989949673 | 0.079899497 | 0.08 | 1320 | 1 | 1320 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 27.9 | 1 | 27.9 | 0.01 | 0.135883498 | 3.79114959 | 0.037911496 | 0.038 | 353 | 1 | 353 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 135 | 1 | 135 | 0.01 | 0.135883498 | 18.34427221 | 0.183442722 | 0.18 | 9960 | 1 | 9960 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 48 | 1 | 48 | 0.01 | 0.135883498 | 6.522407896 | 0.065224079 | 0.065 | 1490 | 1 | 1490 | 0.0003 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 71.8 | 1 | 71.8 | 0.01 | 0.020682707 | 1.485018346 | 0.014850183 | 0.015 | 3000 | 1 | 3000 | 0.0003 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 135 | 1 | 135 | 0.01 | 0.020682707 | 2.792165414 | 0.027921654 | 0.028 | 2990 | 1 | 2990 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 140 | 1 | 140 | 0.01 | 0.020682707 | 2.895578947 | 0.028955789 | 0.029 | 3160 | 1 | 3160 | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 63 | 1 | 63 | 0.01 | 0.020682707 | 1.303010526 | 0.013030105 | 0.013 | 1750 | 1 | 1750 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 94.7 | 1 | 94.7 | 0.01 | 0.020682707 | 1.958652331 | 0.019586523 | 0.02 | 2180 | 1 | 2180 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 89.8 | 1 | 89.8 | 0.01 | 0.020682707 | 1.857307068 | 0.018573071 | 0.019 | 3070 | 1 | 3070 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 109 | 1 | 109 | 0.01 | 0.020682707 | 2.254415038 | 0.02254415 | 0.023 | 2260 | 1 | 2260 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 22.5 | 1 | 22.5 | 0.01 | 0.020682707 | 0.465360902 | 0.004653609 | 0.0047 | 1330 | 1 | 1330 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 119 | 1 | 119 | 0.01 | 0.020682707 | 2.461242105 | 0.024612421 | 0.025 | 6850 | 1 | 6850 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 120 | 1 | 120 | 0.01 | 0.020682707 | 2.481924812 | 0.024819248 | 0.025 | 5880 | 1 | 5880 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 76.8 | 1 | 76.8 | 0.01 | 0.020682707 | 1.58843188 | 0.015884319 | 0.016 | 2100 | 1 | 2100 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 105 | 1 | 105 | 0.01 | 0.020682707 | 2.171684211 | 0.021716842 | 0.022 | 8070 | 1 | 8070 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 105 | 1 | 105 | 0.01 | 0.020682707 | 2.171684211 | 0.021716842 | 0.022 | 6150 | 1 | 6150 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 109 | 1 | 109 | 0.01 | 0.020682707 | 2.254415038 | 0.02254415 | 0.023 | 5690 | 1 | 5690 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.01 | 0.020682707 | | | | | | | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 67.2 | 1 | 67.2 | 0.01 | 0.020682707 | 1.389877895 | 0.013898779 | 0.014 | 1940 | 1 | 1940 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 111 | 1 | 111 | 0.01 | 0.020682707 | 2.295780451 | 0.022957805 | 0.023 | 4010 | 1 | 4010 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 63.8 | 1 | 63.8 | 0.01 | 0.020682707 | 1.319556692 | 0.013195567 | 0.013 | 5000 | 1 | 5000 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 55.5 | 1 | 55.5 | 0.01 | 0.020682707 | 1.147890226 | 0.011478902 | 0.011 | 3670 | 1 | 3670 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 178 | 1 | 178 | 0.01 | 0.020682707 | 3.681521805 | 0.036815218 | 0.037 | 3230 | 1 | 3230 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 131 | 1 | 131 | 0.01 | 0.020682707 | 2.709434586 | 0.027094346 | 0.027 | 5170 | 1 | 5170 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 51.8 | 1 | 51.8 | 0.01 | 0.020682707 | 1.071364211 | 0.010713642 | 0.011 | 1590 | 1 | 1590 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 126 | 1 | 126 | 0.01 | 0.020682707 | 2.606021053 | 0.026060211 | 0.026 | 2920 | 1 | 2920 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 45.8 | 1 | 45.8 | 0.01 | 0.020682707 | 0.94726797 | 0.00947268 | 0.0095 | 2100 | 1 | 2100 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 26.5 | 1 | 26.5 | 0.01 | 0.020682707 | 0.548091729 | 0.005480917 | 0.0055 | 874 | 1 | 874 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 66.2 | 1 | 66.2 | 0.01 | 0.020682707 | 1.369195188 | 0.013691952 | 0.014 | 1600 | 1 | 1600 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 50.2 | 1 | 50.2 | 0.01 | 0.020682707 | 1.03827188 | 0.010382719 | 0.01 | 1680 | 1 | 1680 | 0.0003 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 87 | 1 | 87 | 0.01 | 0.020682707 | 1.799395489 | 0.017993955 | 0.018 | 1690 | 1 | 1690 | 0.0003 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 123 | 1 | 123 | 0.01 | 0.020682707 | 2.543972932 | 0.025439729 | 0.025 | 1920 | 1 | 1920 | 0.0003 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 51.1 | 1 | 51.1 | 0.01 | 0.020682707 | 1.056886316 | 0.010568863 | 0.011 | 1840 | 1 | 1840 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 64.9 | 1 | 64.9 | 0.01 | 0.020682707 | 1.342307669 | 0.013423077 | 0.013 | 1200 | 1 | 1200 | 0.0003 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 81.2 | 1 | 81.2 | 0.01 | 0.020682707 | 1.679435789 | 0.016794358 | 0.017 | 1320 | 1 | 1320 | 0.0003 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 425 | 1 | 425 | 0.01 | 0.020682707 | 8.790150376 | 0.087901504 | 0.088 | 6520 | 1 | 6520 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 64.4 | 1 | 64.4 | 0.01 | 0.020682707 | 1.331966316 | 0.013319663 | 0.013 | 1260 | 1 | 1260 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 73.1 | 1 | 73.1 | 0.01 | 0.020682707 | 1.511905865 | 0.015119059 | 0.015 | 2600 | 1 | 2600 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 96.6 | 1 | 96.6 | 0.01 | 0.020682707 | 1.997949474 | 0.019979495 | 0.02 | 2390 | 1 | 2390 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 75.25 | 1 | 75.25 | 0.01 | 0.020682707 | 1.556373684 | 0.015563737 | 0.016 | 2040 | 1 | 2040 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.01 | 0.020682707 | | | | | | | 0.0003 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 109 | 1 | 109 | 0.01 | 0.020682707 | 2.254415038 | 0.02254415 | 0.023 | 2240 | 1 | 2240 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 125 | 1 | 125 | 0.01 | 0.020682707 | 2.585338346 | 0.025853383 | 0.026 | 1880 | 1 | 1880 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 136 | 1 | 136 | 0.01 | 0.020682707 | 2.81284812 | 0.028128481 | 0.028 | 2410 | 1 | 2410 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 97.8 | 1 | 97.8 | 0.01 | 0.020682707 | 2.022768722 | 0.020227687 | 0.02 | 1750 | 1 | 1750 | 0.0003 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 191 | 1 | 191 | 0.01 | 0.020682707 | 3.950396992 | 0.03950397 | 0.04 | 3150 | 1 | 3150 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 61.8 | 1 | 61.8 | 0.01 | 0.020682707 | 1.278191278 | 0.012781913 | 0.013 | 1950 | 1 | 1950 | 0.0003 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 162 | 1 | 162 | 0.01 | 0.020682707 | 3.350598496 | 0.033505985 | 0.034 | 2830 | 1 | 2830 | 0.0003 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 161 | 1 | 161 | 0.01 | 0.020682707 | 3.329915789 | 0.033299158 | 0.033 | 4240 | 1 | 4240 | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 69.9 | 1 | 69.9 | 0.01 | 0.020682707 | 1.445721203 | 0.014457212 | 0.014 | 1480 | 1 | 1480 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 41.7 | 1 | 41.7 | 0.01 | 0.020682707 | 0.862468872 | 0.008624689 | 0.0086 | 872 | 1 | 872 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 141 | 1 | 141 | 0.01 | 0.020682707 | 2.916261654 | 0.029162617 | 0.029 | 2940 | 1 | 2940 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 99 | 1 | 99 | 0.01 | 0.020682707 | 2.04758797 | 0.02047588 | 0.02 | 2540 | 1 | 2540 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 75.7 | 1 | 75.7 | 0.01 | 0.020682707 | 1.565680902 | 0.015656809 | 0.016 | 2180 | 1 | 2180 | 0.0003 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 115 | 1 | 115 | 0.01 | 0.020682707 | 2.378511278 | 0.023785113 | 0.024 | 2820 | 1 | 2820 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 58.4 | 1 | 58.4 | 0.01 | 0.020682707 | 1.207870075 | 0.012078701 | 0.012 | 1460 | 1 | 1460 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 27.1 | 1 | 27.1 | 0.01 | 0.020682707 | 0.560501353 | 0.005605014 | 0.0056 | 441 | 1 | 441 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.01 | 0.020682707 | | | | | | | 0.0003 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 40.5 | 1 | 40.5 | 0.01 | 0.020682707 | 0.837649624 | 0.008376496 | 0.0084 | 2230 | 1 | 2230 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 166 | 1 | 166 | 0.01 | 0.020682707 | 3.433329323 | 0.034333293 | 0.034 | 3700 | 1 | 3700 | 0.0003 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 137 | 1 | 137 | 0.01 | 0.020682707 | 2.833530827 | 0.028335308 | 0.028 | 1730 | 1 | 1730 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 105 | 1 | 105 | 0.01 | 0.020682707 | 2.171684211 | 0.021716842 | 0.022 | 2100 | 1 | 2100 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 139 | 1 | 139 | 0.01 | 0.020682707 | 2.874896241 | 0.028748962 | 0.029 | 2610 | 1 | 2610 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 82.5 | 1 | 82.5 | 0.01 | 0.020682707 | 1.706323308 | 0.017063233 | 0.017 | 4440 | 1 | 4440 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 67 | 1 | 67 | 0.01 | 0.020682707 | 1.385741353 | 0.013857414 | 0.014 | 1750 | 1 | 1750 | 0.0003 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 172 | 1 | 172 | 0.01 | 0.020682707 | 3.557425564 | 0.035574256 | 0.036 | 2870 | 1 | 2870 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 111 | 1 | 111 | 0.01 | 0.020682707 | 2.295780451 | 0.022957805 | 0.023 | 1470 | 1 | 1470 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 89.9 | 1 | 89.9 | 0.01 | 0.020682707 | 1.859375338 | 0.018593753 | 0.019 | 2010 | 1 | 2010 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 296 | 1 | 296 | 0.01 | 0.020682707 | 6.122081203 | 0.061220812 | 0.061 | 5020 | 1 | 5020 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 25.6 | 1 | 25.6 | 0.01 | 0.020682707 | 0.529477293 | 0.005294773 | 0.0053 | 582 | 1 | 582 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 64 | 1 | 64 | 0.01 | 0.020682707 | 1.323693233 | 0.013236932 | 0.013 | 1150 | 1 | 1150 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 135 | 1 | 135 | 0.01 | 0.020682707 | 2.792165414 | 0.027921654 | 0.028 | 2010 | 1 | 2010 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 71.9 | 1 | 71.9 | 0.01 | 0.020682707 | 1.487086617 | 0.014870866 | 0.015 | 1760 | 1 | 1760 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 33.3 | 1 | 33.3 | 0.01 | 0.020682707 | 0.688734135 | 0.006887341 | 0.0069 | 2090 | 1 | 2090 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 55.1 | 1 | 55.1 | 0.01 | 0.020682707 | 1.139617143 | 0.011396171 | 0.011 | 2130 | 1 | 2130 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 11.8 | 1 | 11.8 | 0.01 | 0.020682707 | 0.24405594 | 0.002440559 | 0.0024 | 1290 | 1 | 1290 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 86.8 | 1 | 86.8 | 0.01 | 0.020682707 | 1.795258947 | 0.017952589 | 0.018 | 2730 | 1 | 2730 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 51.3 | 1 | 51.3 | 0.01 | 0.020682707 | 1.061022857 | 0.010610229 | 0.011 | 2360 | 1 | 2360 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 59.3 | 1 | 59.3 | 0.01 | 0.020682707 | 1.226484511 | 0.012264845 | 0.012 | 1950 | 1 | 1950 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 86.1 | 1 | 86.1 | 0.01 | 0.020682707 | 1.780781053 | 0.017807811 | 0.018 | 3450 | 1 | 3450 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 41.4 | 1 | 41.4 | 0.01 | 0.020682707 | 0.85626406 | 0.008562641 | 0.0086 | 2705 | 1 | 2705 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.01 | 0.020682707 | | | | | | | 0.0003 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 52.2 | 1 | 52.2 | 0.01 | 0.020682707 | 1.079637293 | 0.010796373 | 0.011 | 1890 | 1 | 1890 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 38.2 | 1 | 38.2 | 0.01 | 0.020682707 | 0.790079398 | 0.007900794 | 0.0079 | 1010 | 1 | 1010 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 36 | 1 | 36 | 0.01 | 0.020682707 | 0.744577444 | 0.007445774 | 0.0074 | 2170 | 1 | 2170 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 168 | 1 | 168 | 0.01 | 0.020682707 | 3.474694737 | 0.034746947 | 0.035 | 2980 | 1 | 2980 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 55.2 | 1 | 55.2 | 0.01 | 0.020682707 | 1.141685414 | 0.011416854 | 0.011 | 3220 | 1 | 3220 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 17.7 | 1 | 17.7 | 0.01 | 0.020682707 | 0.36608391 | 0.003660839 | 0.0037 | 1660 | 1 | 1660 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 62.3 | 1 | 62.3 | 0.01 | 0.020682707 | 1.288532632 | 0.012885326 | 0.013 | 2130 | 1 | 2130 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 68.3 | 1 | 68.3 | 0.01 | 0.020682707 | 1.412628872 | 0.014126289 | 0.014 | 2710 | 1 | 2710 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 143.5 | 1 | 143.5 | 0.01 | 0.020682707 | 2.967968421 | 0.029679684 | 0.03 | 2595 | 1 | 2595 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.01 | 0.020682707 | | | | | | | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 106 | 1 | 106 | 0.01 | 0.020682707 | 2.192366917 | 0.021923669 | 0.022 | 1750 | 1 | 1750 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 41.3 | 1 | 41.3 | 0.01 | 0.020682707 | 0.854195789 | 0.008541958 | 0.0085 | 2380 | 1 | 2380 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 59.2 | 1 | 59.2 | 0.01 | 0.020682707 | 1.224416241 | 0.012244162 | 0.012 | 3240 | 1 | 3240 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.01 | 0.020682707 | | | | | | | 0.0003 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 79.8 | 1 | 79.8 | 0.01 | 0.020682707 | 1.65048 | 0.0165048 | 0.017 | 1210 | 1 | 1210 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 105 | 1 | 105 | 0.01 | 0.020682707 | 2.171684211 | 0.021716842 | 0.022 | 2130 | 1 | 2130 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 77.6 | 1 | 77.6 | 0.01 | 0.020682707 | 1.604978045 | 0.01604978 | 0.016 | 1630 | 1 | 1630 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 32.8 | 1 | 32.8 | 0.01 | 0.020682707 | 0.678392782 | 0.006783928 | 0.0068 | 977 | 1 | 977 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 38.1 | 1 | 38.1 | 0.01 | 0.020682707 | 0.788011128 | 0.007880111 | 0.0079 | 924 | 1 | 924 | 0.0003 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 28.1 | 1 | 28.1 | 0.01 | 0.020682707 | 0.58118406 | 0.005811841 | 0.0058 | 899 | 1 | 899 | 0.0003 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 250 | 1 | 250 | 0.01 | 0.020682707 | 5.170676692 | 0.051706767 | 0.052 | 4200 | 1 | 4200 | 0.0003 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 25.5 | 1 | 25.5 | 0.01 | 0.020682707 | 0.527409023 | 0.00527409 | 0.0053 | 590 | 1 | 590 | 0.0003 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 40.8 | 1 | 40.8 | 0.01 | 0.020682707 | 0.843854436 | 0.008438544 | 0.0084 | 1080 | 1 | 1080 | 0.0003 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 58.8 | 1 | 58.8 | 0.01 | 0.020682707 | 1.216143158 | 0.012161432 | 0.012 | 1320 | 1 | 1320 | 0.0003 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 27.9 | 1 | 27.9 | 0.01 | 0.020682707 | 0.577047519 | 0.005770475 | 0.0058 | 353 | 1 | 353 | 0.0003 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 135 | 1 | 135 | 0.01 | 0.020682707 | 2.792165414 | 0.027921654 | 0.028 | 9960 | 1 | 9960 | 0.0003 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 48 | 1 | 48 | 0.01 | 0.020682707 | 0.992769925 | 0.009927699 | 0.0099 | 1490 | 1 | 1490 | 0.0003 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.01 | 0.394620209 | 0.974711916 | 0.009747119 | 0.0097 | 94.4 | 1 | 94.4 | 0.0003 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.01 | 0.394620209 | 21.15164319 | 0.211516432 | 0.21 | 995 | 1 | 995 | 0.0003 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.01 | 0.394620209 | 5.682531006 | 0.05682531 | 0.057 | 487 | 1 | 487 | 0.0003 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.01 | 0.394620209 | 46.56518464 | 0.465651846 | 0.47 | 2100 | 1 | 2100 | 0.0003 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.01 | 0.394620209 | 3.571312889 | 0.035713129 | 0.036 | 170 | 1 | 170 | 0.0003 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.01 | 0.394620209 | 1.089151776 | 0.010891518 | 0.011 | 45.3 | 1 | 45.3 | 0.0003 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.01 | 0.394620209 | 5.090600693 | 0.050906007 | 0.051 | 279 | 1 | 279 | 0.0003 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.01 | 0.394620209 | 37.13376165 | 0.371337616 | 0.37 | 2030 | 1 | 2030 | 0.0003 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.01 | 0.394620209 | 9.234112885 | 0.092341129 | 0.092 | 371 | 1 | 371 | 0.0003 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.01 | 0.394620209 | 7.931866196 | 0.079318662 | 0.079 | 307 | 1 | 307 | 0.0003 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | 0.394620209 | | | | | | | 0.0003 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 0.394620209 | | | | | | | 0.0003 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 0.394620209 | | | | | | | 0.0003 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 0.394620209 | | | | | | | 0.0003 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.01 | 0.701358619 | 1.732355789 | 0.017323558 | 0.017 | 94.4 | 1 | 94.4 | 0.0003 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.01 | 0.701358619 | 37.59282197 | 0.37592822 | 0.38 | 995 | 1 | 995 | 0.0003 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.01 | 0.701358619 | 10.09956411 | 0.100995641 | 0.1 | 487 | 1 | 487 | 0.0003 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.01 | 0.701358619 | 82.76031703 | 0.82760317 | 0.83 | 2100 | 1 | 2100 | 0.0003 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.01 | 0.701358619 | 6.347295501 | 0.063472955 | 0.063 | 170 | 1 | 170 | 0.0003 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.01 | 0.701358619 | 1.935749788 | 0.019357498 | 0.019 | 45.3 | 1 | 45.3 | 0.0003 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.01 | 0.701358619 | 9.047526183 | 0.090475262 | 0.09 | 279 | 1 | 279 | 0.0003 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.01 | 0.701358619 | 65.99784604 | 0.65997846 | 0.66 | 2030 | 1 | 2030 | 0.0003 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.01 | 0.701358619 | 16.41179168 | 0.164117917 | 0.16 | 371 | 1 | 371 | 0.0003 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.01 | 0.701358619 | 14.09730824 | 0.140973082 | 0.14 | 307 | 1 | 307 | 0.0003 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | 0.701358619 | | | | | | | 0.0003 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 0.701358619 | | | | | | | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 0.701358619 | | | | | | | 0.0003 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 0.701358619 | | | | | | | 0.0003 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.01 | 0.110238153 | 0.272288238 | 0.002722882 | 0.0027 | 94.4 | 1 | 94.4 | 0.0003 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.01 | 0.110238153 | 5.908765012 | 0.05908765 | 0.059 | 995 | 1 | 995 | 0.0003 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.01 | 0.110238153 | 1.587429406 | 0.015874294 | 0.016 | 487 | 1 | 487 | 0.0003 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.01 | 0.110238153 | 13.00810208 | 0.130081021 | 0.13 | 2100 | 1 | 2100 | 0.0003 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.01 | 0.110238153 | 0.997655287 | 0.009976553 | 0.01 | 170 | 1 | 170 | 0.0003 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.01 | 0.110238153 | 0.304257303 | 0.003042573 | 0.003 | 45.3 | 1 | 45.3 | 0.0003 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.01 | 0.110238153 | 1.422072176 | 0.014220722 | 0.014 | 279 | 1 | 279 | 0.0003 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.01 | 0.110238153 | 10.37341022 | 0.103734102 | 0.1 | 2030 | 1 | 2030 | 0.0003 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.01 | 0.110238153 | 2.579572785 | 0.025795728 | 0.026 | 371 | 1 | 371 | 0.0003 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.01 | 0.110238153 | 2.215786879 | 0.022157869 | 0.022 | 307 | 1 | 307 | 0.0003 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | 0.110238153 | | | | | | | 0.0003 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 0.110238153 | | | | | | | 0.0003 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 0.110238153 | | | | | | | 0.0003 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 0.110238153 | | | | | | | 0.0003 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.01 | 4.547920463 | 11.23336354 | 0.112333635 | 0.11 | 94.4 | 1 | 94.4 | 0.0003 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.01 | 4.547920463 | 243.7685368 | 2.437685368 | 2.4 | 995 | 1 | 995 | 0.0003 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.01 | 4.547920463 | 65.49005467 | 0.654900547 | 0.65 | 487 | 1 | 487 | 0.0003 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.01 | 4.547920463 | 536.6546146 | 5.366546146 | 5.4 | 2100 | 1 | 2100 | 0.0003 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.01 | 4.547920463 | 41.15868019 | 0.411586802 | 0.41 | 170 | 1 | 170 | 0.0003 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.01 | 4.547920463 | 12.55226048 | 0.125522605 | 0.13 | 45.3 | 1 | 45.3 | 0.0003 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.01 | 4.547920463 | 58.66817397 | 0.58668174 | 0.59 | 279 | 1 | 279 | 0.0003 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.01 | 4.547920463 | 427.9593156 | 4.279593156 | 4.3 | 2030 | 1 | 2030 | 0.0003 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.01 | 4.547920463 | 106.4213388 | 1.064213388 | 1.1 | 371 | 1 | 371 | 0.0003 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.01 | 4.547920463 | 91.41320131 | 0.914132013 | 0.91 | 307 | 1 | 307 | 0.0003 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | 4.547920463 | | | | | | | 0.0003 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 4.547920463 | | | | | | | 0.0003 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 4.547920463 | | | | | | | 0.0003 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 4.547920463 | | | | | | | 0.0003 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.01 | NA | 0 | 0 | 0 | 94.4 | 1 | 94.4 | 0.0003 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.01 | NA | 0 | 0 | 0 | 995 | 1 | 995 | 0.0003 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.01 | NA | 0 | 0 | 0 | 487 | 1 | 487 | 0.0003 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.01 | NA | 0 | 0 | 0 | 2100 | 1 | 2100 | 0.0003 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.01 | NA | 0 | 0 | 0 | 170 | 1 | 170 | 0.0003 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.01 | NA | 0 | 0 | 0 | 45.3 | 1 | 45.3 | 0.0003 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.01 | NA | 0 | 0 | 0 | 279 | 1 | 279 | 0.0003 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.01 | NA | 0 | 0 | 0 | 2030 | 1 | 2030 | 0.0003 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.01 | NA | 0 | 0 | 0 | 371 | 1 | 371 | 0.0003 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.01 | NA | 0 | 0 | 0 | 307 | 1 | 307 | 0.0003 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.01 | NA | 0 | 0 | 0 | 94.4 | 1 | 94.4 | 0.0003 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.01 | NA | 0 | 0 | 0 | 995 | 1 | 995 | 0.0003 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.01 | NA | 0 | 0 | 0 | 487 | 1 | 487 | 0.0003 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.01 | NA | 0 | 0 | 0 | 2100 | 1 | 2100 | 0.0003 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.01 | NA | 0 | 0 | 0 | 170 | 1 | 170 | 0.0003 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.01 | NA | 0 | 0 | 0 | 45.3 | 1 | 45.3 | 0.0003 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.01 | NA | 0 | 0 | 0 | 279 | 1 | 279 | 0.0003 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.01 | NA | 0 | 0 | 0 | 2030 | 1 | 2030 | 0.0003 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.01 | NA | 0 | 0 | 0 | 371 | 1 | 371 | 0.0003 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.01 | NA | 0 | 0 | 0 | 307 | 1 | 307 | 0.0003 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.01 | NA | 0 | 0 | 0 | 94.4 | 1 | 94.4 | 0.0003 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.01 | NA | 0 | 0 | 0 | 995 | 1 | 995 | 0.0003 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.01 | NA | 0 | 0 | 0 | 487 | 1 | 487 | 0.0003 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.01 | NA | 0 | 0 | 0 | 2100 | 1 | 2100 | 0.0003 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.01 | NA | 0 | 0 | 0 | 170 | 1 | 170 | 0.0003 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.01 | NA | 0 | 0 | 0 | 45.3 | 1 | 45.3 | 0.0003 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.01 | NA | 0 | 0 | 0 | 279 | 1 | 279 | 0.0003 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.01 | NA | 0 | 0 | 0 | 2030 | 1 | 2030 | 0.0003 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.01 | NA | 0 | 0 | 0 | 371 | 1 | 371 | 0.0003 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.01 | NA | 0 | 0 | 0 | 307 | 1 | 307 | 0.0003 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.01 | 0.195560414 | 0.483034223 | 0.004830342 | 0.0048 | 94.4 | 1 | 94.4 | 0.0003 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.01 | 0.195560414 | 10.4820382 | 0.104820382 | 0.1 | 995 | 1 | 995 | 0.0003 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.01 | 0.195560414 | 2.816069964 | 0.0281607 | 0.028 | 487 | 1 | 487 | 0.0003 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.01 | 0.195560414 | 23.07612888 | 0.230761289 | 0.23 | 2100 | 1 | 2100 | 0.0003 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.01 | 0.195560414 | 1.769821749 | 0.017698217 | 0.018 | 170 | 1 | 170 | 0.0003 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.01 | 0.195560414 | 0.539746743 | 0.005397467 | 0.0054 | 45.3 | 1 | 45.3 | 0.0003 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.01 | 0.195560414 | 2.522729343 | 0.025227293 | 0.025 | 279 | 1 | 279 | 0.0003 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.01 | 0.195560414 | 18.40223498 | 0.18402235 | 0.18 | 2030 | 1 | 2030 | 0.0003 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.01 | 0.195560414 | 4.576113692 | 0.045761137 | 0.046 | 371 | 1 | 371 | 0.0003 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.01 | 0.195560414 | 3.930764325 | 0.039307643 | 0.039 | 307 | 1 | 307 | 0.0003 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | 0.195560414 | | | | | | | 0.0003 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 0.195560414 | | | | | | | 0.0003 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 0.195560414 | | | | | | | 0.0003 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 0.195560414 | | | | | | | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.01 | NA | 0 | 0 | 0 | 94.4 | 1 | 94.4 | 0.0003 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.01 | NA | 0 | 0 | 0 | 995 | 1 | 995 | 0.0003 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.01 | NA | 0 | 0 | 0 | 487 | 1 | 487 | 0.0003 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.01 | NA | 0 | 0 | 0 | 2100 | 1 | 2100 | 0.0003 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.01 | NA | 0 | 0 | 0 | 170 | 1 | 170 | 0.0003 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.01 | NA | 0 | 0 | 0 | 45.3 | 1 | 45.3 | 0.0003 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.01 | NA | 0 | 0 | 0 | 279 | 1 | 279 | 0.0003 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.01 | NA | 0 | 0 | 0 | 2030 | 1 | 2030 | 0.0003 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.01 | NA | 0 | 0 | 0 | 371 | 1 | 371 | 0.0003 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.01 | NA | 0 | 0 | 0 | 307 | 1 | 307 | 0.0003 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.01 | 0.551942941 | 1.363299065 | 0.013632991 | 0.014 | 94.4 | 1 | 94.4 | 0.0003 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.01 | 0.551942941 | 29.58414166 | 0.295841417 | 0.3 | 995 | 1 | 995 | 0.0003 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.01 | 0.551942941 | 7.947978356 | 0.079479784 | 0.079 | 487 | 1 | 487 | 0.0003 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.01 | 0.551942941 | 65.12926708 | 0.651292671 | 0.65 | 2100 | 1 | 2100 | 0.0003 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.01 | 0.551942941 | 4.995083619 | 0.049950836 | 0.05 | 170 | 1 | 170 | 0.0003 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.01 | 0.551942941 | 1.523362518 | 0.015233625 | 0.015 | 45.3 | 1 | 45.3 | 0.0003 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.01 | 0.551942941 | 7.120063944 | 0.071200639 | 0.071 | 279 | 1 | 279 | 0.0003 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.01 | 0.551942941 | 51.93783078 | 0.519378308 | 0.52 | 2030 | 1 | 2030 | 0.0003 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.01 | 0.551942941 | 12.91546483 | 0.129154648 | 0.13 | 371 | 1 | 371 | 0.0003 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.01 | 0.551942941 | 11.09405312 | 0.110940531 | 0.11 | 307 | 1 | 307 | 0.0003 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | 0.551942941 | | | | | | | 0.0003 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 0.551942941 | | | | | | | 0.0003 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 0.551942941 | | | | | | | 0.0003 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 0.551942941 | | | | | | | 0.0003 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.01 | NA | 0 | 0 | 0 | 94.4 | 1 | 94.4 | 0.0003 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.01 | NA | 0 | 0 | 0 | 995 | 1 | 995 | 0.0003 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.01 | NA | 0 | 0 | 0 | 487 | 1 | 487 | 0.0003 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.01 | NA | 0 | 0 | 0 | 2100 | 1 | 2100 | 0.0003 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.01 | NA | 0 | 0 | 0 | 170 | 1 | 170 | 0.0003 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.01 | NA | 0 | 0 | 0 | 45.3 | 1 | 45.3 | 0.0003 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.01 | NA | 0 | 0 | 0 | 279 | 1 | 279 | 0.0003 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.01 | NA | 0 | 0 | 0 | 2030 | 1 | 2030 | 0.0003 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.01 | NA | 0 | 0 | 0 | 371 | 1 | 371 | 0.0003 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.01 | NA | 0 | 0 | 0 | 307 | 1 | 307 | 0.0003 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.025644517 | 76.9335512 | 0.023080065 | 0.023 | 38.6 | 1 | 38.6 | 0.1 | 0.040140658 | 1.549429406 | 0.154942941 | 0.15 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.025644517 | 76.67710603 | 0.023003132 | 0.023 | 11.8 | 1 | 11.8 | 0.1 | 0.040140658 | 0.473659766 | 0.047365977 | 0.047 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.025644517 | 81.03667393 | 0.024311002 | 0.024 | 81 | 1 | 81 | 0.1 | 0.040140658 | 3.251393312 | 0.325139331 | 0.33 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.025644517 | 44.87790487 | 0.013463371 | 0.013 | 23.1 | 1 | 23.1 | 0.1 | 0.040140658 | 0.927249204 | 0.09272492 | 0.093 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.025644517 | 55.9050472 | 0.016771514 | 0.017 | 13.7 | 1 | 13.7 | 0.1 | 0.040140658 | 0.549927017 | 0.054992702 | 0.055 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.025644517 | 78.72866739 | 0.0236186 | 0.024 | 14.1 | 1 | 14.1 | 0.1 | 0.040140658 | 0.56598328 | 0.056598328 | 0.057 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.025644517 | 57.95660857 | 0.017386983 | 0.017 | 10.8 | 1 | 10.8 | 0.1 | 0.040140658 | 0.433519108 | 0.043351911 | 0.043 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.025644517 | 34.1072077 | 0.010232162 | 0.01 | 1.71 | 1 | 1.71 | 0.1 | 0.040140658 | 0.068640525 | 0.006864053 | 0.0069 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.025644517 | 175.6649419 | 0.052699483 | 0.053 | 30 | 1 | 30 | 0.1 | 0.040140658 | 1.204219745 | 0.120421975 | 0.12 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.025644517 | 150.7897603 | 0.045236928 | 0.045 | 22.9 | 1 | 22.9 | 0.1 | 0.040140658 | 0.919221072 | 0.091922107 | 0.092 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.025644517 | 53.85348584 | 0.016156046 | 0.016 | 17.7 | 1 | 17.7 | 0.1 | 0.040140658 | 0.71048965 | 0.071048965 | 0.071 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.025644517 | 206.9512527 | 0.062085376 | 0.062 | 23.3 | 1 | 23.3 | 0.1 | 0.040140658 | 0.935277335 | 0.093527734 | 0.094 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.025644517 | 157.71378 | 0.047314134 | 0.047 | 23.4 | 1 | 23.4 | 0.1 | 0.040140658 | 0.939291401 | 0.09392914 | 0.094 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.025644517 | 145.9173021 | 0.043775191 | 0.044 | 23 | 1 | 23 | 0.1 | 0.040140658 | 0.923235138 | 0.092323514 | 0.092 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.025644517 | | | | | | | 0.1 | 0.040140658 | | | |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.025644517 | 49.75036311 | 0.014925109 | 0.015 | 15.2 | 1 | 15.2 | 0.1 | 0.040140658 | 0.610138004 | 0.0610138 | 0.061 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.025644517 | 102.8345134 | 0.030850354 | 0.031 | 7.65 | 0 | 0 | 0.1 | 0.040140658 | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.025644517 | 128.2225853 | 0.038466776 | 0.038 | 4.17 | 1 | 4.17 | 0.1 | 0.040140658 | 0.167386545 | 0.016738654 | 0.017 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.025644517 | 94.11537763 | 0.028234613 | 0.028 | 3.83 | 1 | 3.83 | 0.1 | 0.040140658 | 0.153738721 | 0.015373872 | 0.015 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.025644517 | 82.83179012 | 0.024849537 | 0.025 | 22.6 | 1 | 22.6 | 0.1 | 0.040140658 | 0.907178875 | 0.090717887 | 0.091 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.025644517 | 132.5821532 | 0.039774646 | 0.04 | 21 | 1 | 21 | 0.1 | 0.040140658 | 0.842953822 | 0.084295382 | 0.084 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.025644517 | 40.77478214 | 0.012232435 | 0.012 | 5.37 | 1 | 5.37 | 0.1 | 0.040140658 | 0.215555334 | 0.021555533 | 0.022 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.025644517 | 74.88198983 | 0.022464597 | 0.022 | 11.5 | 1 | 11.5 | 0.1 | 0.040140658 | 0.461617569 | 0.046161757 | 0.046 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.025644517 | 53.85348584 | 0.016156046 | 0.016 | 36.3 | 1 | 36.3 | 0.1 | 0.040140658 | 1.457105892 | 0.145710589 | 0.15 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.025644517 | 22.41330792 | 0.006723992 | 0.0067 | 20.9 | 1 | 20.9 | 0.1 | 0.040140658 | 0.838939756 | 0.083893976 | 0.084 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.025644517 | 41.03122731 | 0.012309368 | 0.012 | 56.8 | 0 | 0 | 0.1 | 0.040140658 | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.025644517 | 43.08278867 | 0.012924837 | 0.013 | 33.7 | 1 | 33.7 | 0.1 | 0.040140658 | 1.35274018 | 0.135274018 | 0.14 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.025644517 | 43.33923384 | 0.01300177 | 0.013 | 61 | 1 | 61 | 0.1 | 0.040140658 | 2.448580149 | 0.244858015 | 0.24 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.025644517 | 49.23747277 | 0.014771242 | 0.015 | 36.6 | 0 | 0 | 0.1 | 0.040140658 | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.025644517 | 47.1859114 | 0.014155773 | 0.014 | 8.14 | 1 | 8.14 | 0.1 | 0.040140658 | 0.326744958 | 0.032674496 | 0.033 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.025644517 | 30.77342048 | 0.009232026 | 0.0092 | 12.6 | 1 | 12.6 | 0.1 | 0.040140658 | 0.505772293 | 0.050577229 | 0.051 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.025644517 | 33.85076253 | 0.010155229 | 0.01 | 12.6 | 1 | 12.6 | 0.1 | 0.040140658 | 0.505772293 | 0.050577229 | 0.051 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.025644517 | 167.2022513 | 0.050160675 | 0.05 | 17.4 | 1 | 17.4 | 0.1 | 0.040140658 | 0.698447452 | 0.069844745 | 0.07 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.025644517 | 32.3120915 | 0.009693627 | 0.0097 | 14 | 1 | 14 | 0.1 | 0.040140658 | 0.561969214 | 0.056196921 | 0.056 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.025644517 | 66.67574437 | 0.020002723 | 0.02 | 12.1 | 1 | 12.1 | 0.1 | 0.040140658 | 0.485701964 | 0.048570196 | 0.049 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.025644517 | 61.29039579 | 0.018387119 | 0.018 | 19.1 | 1 | 19.1 | 0.1 | 0.040140658 | 0.766686571 | 0.076668657 | 0.077 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.025644517 | 52.31481481 | 0.015694444 | 0.016 | 27.5 | 1 | 27.5 | 0.1 | 0.040140658 | 1.1038681 | 0.11038681 | 0.11 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.025644517 | | | | | | | 0.1 | 0.040140658 | | | |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.025644517 | 57.44371823 | 0.017233115 | 0.017 | 17.7 | 1 | 17.7 | 0.1 | 0.040140658 | 0.71048965 | 0.071048965 | 0.071 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.025644517 | 48.21169208 | 0.014463508 | 0.014 | 13.1 | 1 | 13.1 | 0.1 | 0.040140658 | 0.525842622 | 0.052584262 | 0.053 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.025644517 | 61.80328613 | 0.018540986 | 0.019 | 22.1 | 1 | 22.1 | 0.1 | 0.040140658 | 0.887108546 | 0.088710855 | 0.089 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.025644517 | 44.87790487 | 0.013463371 | 0.013 | 68.5 | 1 | 68.5 | 0.1 | 0.040140658 | 2.749635085 | 0.274963508 | 0.27 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.025644517 | 80.78022876 | 0.024234069 | 0.024 | 38.4 | 1 | 38.4 | 0.1 | 0.040140658 | 1.541401274 | 0.154140127 | 0.15 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.025644517 | 50.00680828 | 0.015002042 | 0.015 | 79.9 | 1 | 79.9 | 0.1 | 0.040140658 | 3.207238588 | 0.320723859 | 0.32 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.025644517 | 72.5739833 | 0.021772195 | 0.022 | 88.9 | 1 | 88.9 | 0.1 | 0.040140658 | 3.568504512 | 0.356850451 | 0.36 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.025644517 | 108.7327524 | 0.032619826 | 0.033 | 140 | 1 | 140 | 0.1 | 0.040140658 | 5.619692144 | 0.561969214 | 0.56 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.025644517 | 37.95388526 | 0.011386166 | 0.011 | 70.6 | 1 | 70.6 | 0.1 | 0.040140658 | 2.833930467 | 0.283393047 | 0.28 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.025644517 | 22.36201888 | 0.006708606 | 0.0067 | 63.9 | 1 | 63.9 | 0.1 | 0.040140658 | 2.564988057 | 0.256498806 | 0.26 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.025644517 | 75.39488017 | 0.022618464 | 0.023 | 69 | 1 | 69 | 0.1 | 0.040140658 | 2.769705414 | 0.276970541 | 0.28 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.025644517 | 65.13707335 | 0.019541122 | 0.02 | 32.5 | 1 | 32.5 | 0.1 | 0.040140658 | 1.304571391 | 0.130457139 | 0.13 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.025644517 | 55.9050472 | 0.016771514 | 0.017 | 97.7 | 1 | 97.7 | 0.1 | 0.040140658 | 3.921742304 | 0.39217423 | 0.39 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.025644517 | 72.31753813 | 0.021695261 | 0.022 | 28.9 | 1 | 28.9 | 0.1 | 0.040140658 | 1.160065021 | 0.116006502 | 0.12 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.025644517 | 37.44099492 | 0.011232298 | 0.011 | 26.3 | 1 | 26.3 | 0.1 | 0.040140658 | 1.05569931 | 0.105569931 | 0.11 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.025644517 | 11.30923203 | 0.00339277 | 0.0034 | 117 | 1 | 117 | 0.1 | 0.040140658 | 4.696457006 | 0.469645701 | 0.47 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.025644517 | | | | | | | 0.1 | 0.040140658 | | | |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.025644517 | 57.18727306 | 0.017156182 | 0.017 | 94.9 | 1 | 94.9 | 0.1 | 0.040140658 | 3.809348461 | 0.380934846 | 0.38 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.025644517 | 94.88471314 | 0.028465414 | 0.028 | 304 | 0 | 0 | 0.1 | 0.040140658 | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.025644517 | 44.36501452 | 0.013309504 | 0.013 | 122 | 1 | 122 | 0.1 | 0.040140658 | 4.897160297 | 0.48971603 | 0.49 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.025644517 | 53.85348584 | 0.016156046 | 0.016 | 76.4 | 1 | 76.4 | 0.1 | 0.040140658 | 3.066746285 | 0.306674628 | 0.31 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.025644517 | 66.93218954 | 0.020079657 | 0.02 | 35.6 | 1 | 35.6 | 0.1 | 0.040140658 | 1.429007431 | 0.142900743 | 0.14 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.025644517 | 113.8616558 | 0.034158497 | 0.034 | 29.1 | 1 | 29.1 | 0.1 | 0.040140658 | 1.168093153 | 0.116809315 | 0.12 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.025644517 | 44.87790487 | 0.013463371 | 0.013 | 30.5 | 1 | 30.5 | 0.1 | 0.040140658 | 1.224290074 | 0.122429007 | 0.12 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.025644517 | 73.59976398 | 0.022079929 | 0.022 | 279 | 1 | 279 | 0.1 | 0.040140658 | 11.19924363 | 1.119924363 | 1.1 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.025644517 | 37.69744009 | 0.011309232 | 0.011 | 437 | 1 | 437 | 0.1 | 0.040140658 | 17.54146762 | 1.754146762 | 1.8 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.025644517 | 51.5454793 | 0.015463644 | 0.015 | 26.8 | 1 | 26.8 | 0.1 | 0.040140658 | 1.075769639 | 0.107576964 | 0.11 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.025644517 | 128.7354757 | 0.038620643 | 0.039 | 602 | 0 | 0 | 0.1 | 0.040140658 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.025644517 | 14.92510893 | 0.004477533 | 0.0045 | 108 | 1 | 108 | 0.1 | 0.040140658 | 4.335191083 | 0.433519108 | 0.43 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.025644517 | 29.49119463 | 0.008847358 | 0.0088 | 16.6 | 1 | 16.6 | 0.1 | 0.040140658 | 0.666334926 | 0.066633493 | 0.067 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.025644517 | 51.5454793 | 0.015463644 | 0.015 | 47.6 | 1 | 47.6 | 0.1 | 0.040140658 | 1.910695329 | 0.191069533 | 0.19 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.025644517 | 45.13435004 | 0.013540305 | 0.014 | 6.81 | 1 | 6.81 | 0.1 | 0.040140658 | 0.273357882 | 0.027335788 | 0.027 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.025644517 | 53.59704067 | 0.016079112 | 0.016 | 1.24 | 1 | 1.24 | 0.1 | 0.040140658 | 0.049774416 | 0.004977442 | 0.005 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.025644517 | 54.62282135 | 0.016386846 | 0.016 | 4.18 | 1 | 4.18 | 0.1 | 0.040140658 | 0.167787951 | 0.016778795 | 0.017 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.025644517 | 33.08142702 | 0.009924428 | 0.0099 | 0.58 | 0 | 0 | 0.1 | 0.040140658 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.025644517 | 70.00953159 | 0.021002859 | 0.021 | 10.2 | 1 | 10.2 | 0.1 | 0.040140658 | 0.409434713 | 0.040943471 | 0.041 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.025644517 | 60.52106028 | 0.018156318 | 0.018 | 4.32 | 0 | 0 | 0.1 | 0.040140658 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.025644517 | 50.00680828 | 0.015002042 | 0.015 | 20.8 | 1 | 20.8 | 0.1 | 0.040140658 | 0.83492569 | 0.083492569 | 0.083 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.025644517 | 88.47358388 | 0.026542075 | 0.027 | 24.1 | 1 | 24.1 | 0.1 | 0.040140658 | 0.967389862 | 0.096738986 | 0.097 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.025644517 | 69.36841866 | 0.020810526 | 0.021 | 4.7 | 1 | 4.7 | 0.1 | 0.040140658 | 0.188661093 | 0.018866109 | 0.019 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.025644517 | | | | | | | 0.1 | 0.040140658 | | | |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.025644517 | 48.46813725 | 0.014540441 | 0.015 | 22.7 | 1 | 22.7 | 0.1 | 0.040140658 | 0.911192941 | 0.091119294 | 0.091 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.025644517 | 25.90096224 | 0.007770289 | 0.0078 | 8.27 | 1 | 8.27 | 0.1 | 0.040140658 | 0.331963243 | 0.033196324 | 0.033 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.025644517 | 55.64860203 | 0.016694581 | 0.017 | 3.8 | 1 | 3.8 | 0.1 | 0.040140658 | 0.152534501 | 0.01525345 | 0.015 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.025644517 | 76.42066086 | 0.022926198 | 0.023 | 683 | 1 | 683 | 0.1 | 0.040140658 | 27.41606953 | 2.741606953 | 2.7 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.025644517 | 82.57534495 | 0.024772603 | 0.025 | 1.28 | 1 | 1.28 | 0.1 | 0.040140658 | 0.051380042 | 0.005138004 | 0.0051 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.025644517 | 42.56989833 | 0.012770969 | 0.013 | 2.1 | 1 | 2.1 | 0.1 | 0.040140658 | 0.084295382 | 0.008429538 | 0.0084 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.025644517 | 54.62282135 | 0.016386846 | 0.016 | 3 | 1 | 3 | 0.1 | 0.040140658 | 0.120421975 | 0.012042197 | 0.012 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.025644517 | 69.49664125 | 0.020848992 | 0.021 | 2.1 | 1 | 2.1 | 0.1 | 0.040140658 | 0.084295382 | 0.008429538 | 0.0084 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.025644517 | 66.54752179 | 0.019964257 | 0.02 | 422.6 | 1 | 422.6 | 0.1 | 0.040140658 | 16.96344214 | 1.696344214 | 1.7 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.025644517 | | | | | | | 0.1 | 0.040140658 | | | |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.025644517 | 44.87790487 | 0.013463371 | 0.013 | 182 | 1 | 182 | 0.1 | 0.040140658 | 7.305599788 | 0.730559979 | 0.73 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.025644517 | 61.03395062 | 0.018310185 | 0.018 | 38.4 | 1 | 38.4 | 0.1 | 0.040140658 | 1.541401274 | 0.154140127 | 0.15 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.025644517 | 83.08823529 | 0.024926471 | 0.025 | 34.8 | 1 | 34.8 | 0.1 | 0.040140658 | 1.396894904 | 0.13968949 | 0.14 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.025644517 | | | | | | | 0.1 | 0.040140658 | | | |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.025644517 | 31.02986565 | 0.00930896 | 0.0093 | 15.2 | 1 | 15.2 | 0.1 | 0.040140658 | 0.610138004 | 0.0610138 | 0.061 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.025644517 | 54.62282135 | 0.016386846 | 0.016 | 556 | 1 | 556 | 0.1 | 0.040140658 | 22.31820594 | 2.231820594 | 2.2 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.025644517 | 41.80056282 | 0.012540169 | 0.013 | 28.7 | 1 | 28.7 | 0.1 | 0.040140658 | 1.15203689 | 0.115203689 | 0.12 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.025644517 | 25.05469317 | 0.007516408 | 0.0075 | 12.6 | 1 | 12.6 | 0.1 | 0.040140658 | 0.505772293 | 0.050577229 | 0.051 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.025644517 | 23.69553377 | 0.00710866 | 0.0071 | 10.5 | 1 | 10.5 | 0.1 | 0.040140658 | 0.421476911 | 0.042147691 | 0.042 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.025644517 | 23.05442084 | 0.006916326 | 0.0069 | 6.5 | 1 | 6.5 | 0.1 | 0.040140658 | 0.260914278 | 0.026091428 | 0.026 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.025644517 | 107.7069717 | 0.032312092 | 0.032 | 65.7 | 1 | 65.7 | 0.1 | 0.040140658 | 2.637241242 | 0.263724124 | 0.26 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.025644517 | 15.13026507 | 0.00453908 | 0.0045 | 5.3 | 1 | 5.3 | 0.1 | 0.040140658 | 0.212745488 | 0.021274549 | 0.021 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.025644517 | 27.69607843 | 0.008308824 | 0.0083 | 7.5 | 1 | 7.5 | 0.1 | 0.040140658 | 0.301054936 | 0.030105494 | 0.03 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.025644517 | 33.85076253 | 0.010155229 | 0.01 | 11.8 | 1 | 11.8 | 0.1 | 0.040140658 | 0.473659766 | 0.047365977 | 0.047 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.025644517 | 9.052514524 | 0.002715754 | 0.0027 | 30.9 | 1 | 30.9 | 0.1 | 0.040140658 | 1.240346338 | 0.124034634 | 0.12 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.025644517 | 255.41939 | 0.076625817 | 0.077 | 12.2 | 1 | 12.2 | 0.1 | 0.040140658 | 0.48971603 | 0.048971603 | 0.049 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.025644517 | 38.21033043 | 0.011463099 | 0.011 | 17.7 | 1 | 17.7 | 0.1 | 0.040140658 | 0.71048965 | 0.071048965 | 0.071 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.087377433 | 262.1322987 | 0.07863969 | 0.079 | 38.6 | 1 | 38.6 | 0.1 | 0.08111926 | 3.131203424 | 0.313120342 | 0.31 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.087377433 | 261.2585244 | 0.078377557 | 0.078 | 11.8 | 1 | 11.8 | 0.1 | 0.08111926 | 0.957207264 | 0.095720726 | 0.096 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.087377433 | 276.112688 | 0.082833806 | 0.083 | 81 | 1 | 81 | 0.1 | 0.08111926 | 6.570660035 | 0.657066004 | 0.66 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.087377433 | 152.9105076 | 0.045873152 | 0.046 | 23.1 | 1 | 23.1 | 0.1 | 0.08111926 | 1.873854899 | 0.18738549 | 0.19 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.087377433 | 190.4828037 | 0.057144841 | 0.057 | 13.7 | 1 | 13.7 | 0.1 | 0.08111926 | 1.111333858 | 0.111133386 | 0.11 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.087377433 | 268.248719 | 0.080474616 | 0.08 | 14.1 | 1 | 14.1 | 0.1 | 0.08111926 | 1.143781562 | 0.114378156 | 0.11 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.087377433 | 197.4729983 | 0.0592419 | 0.059 | 10.8 | 1 | 10.8 | 0.1 | 0.08111926 | 0.876088005 | 0.0876088 | 0.088 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.087377433 | 116.2119858 | 0.034863596 | 0.035 | 1.71 | 1 | 1.71 | 0.1 | 0.08111926 | 0.138713934 | 0.013871393 | 0.014 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.087377433 | 598.5354153 | 0.179560625 | 0.18 | 30 | 1 | 30 | 0.1 | 0.08111926 | 2.433577791 | 0.243357779 | 0.24 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.087377433 | 513.7793054 | 0.154133792 | 0.15 | 22.9 | 1 | 22.9 | 0.1 | 0.08111926 | 1.857631047 | 0.185763105 | 0.19 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.087377433 | 183.4926091 | 0.055047783 | 0.055 | 17.7 | 1 | 17.7 | 0.1 | 0.08111926 | 1.435810897 | 0.14358109 | 0.14 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.087377433 | 705.1358835 | 0.211540765 | 0.21 | 23.3 | 1 | 23.3 | 0.1 | 0.08111926 | 1.890078751 | 0.189007875 | 0.19 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.087377433 | 537.3712123 | 0.161211364 | 0.16 | 23.4 | 1 | 23.4 | 0.1 | 0.08111926 | 1.898190677 | 0.189819068 | 0.19 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.087377433 | 497.1775932 | 0.149153278 | 0.15 | 23 | 1 | 23 | 0.1 | 0.08111926 | 1.865742973 | 0.186574297 | 0.19 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.087377433 | | | | | | | 0.1 | 0.08111926 | | | |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.087377433 | 169.5122198 | 0.050853666 | 0.051 | 15.2 | 1 | 15.2 | 0.1 | 0.08111926 | 1.233012747 | 0.123301275 | 0.12 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.087377433 | 350.3835059 | 0.105115052 | 0.11 | 7.65 | 0 | 0 | 0.1 | 0.08111926 | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.087377433 | 436.8871645 | 0.131066149 | 0.13 | 4.17 | 1 | 4.17 | 0.1 | 0.08111926 | 0.338267313 | 0.033826731 | 0.034 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.087377433 | 320.6751787 | 0.096202554 | 0.096 | 3.83 | 1 | 3.83 | 0.1 | 0.08111926 | 0.310686765 | 0.031068676 | 0.031 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.087377433 | 282.2291083 | 0.084668732 | 0.085 | 22.6 | 1 | 22.6 | 0.1 | 0.08111926 | 1.833295269 | 0.183329527 | 0.18 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.087377433 | 451.7413281 | 0.135522398 | 0.14 | 21 | 1 | 21 | 0.1 | 0.08111926 | 1.703504454 | 0.170350445 | 0.17 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.087377433 | 138.9301183 | 0.041679035 | 0.042 | 5.37 | 1 | 5.37 | 0.1 | 0.08111926 | 0.435610425 | 0.043561042 | 0.044 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.087377433 | 255.1421041 | 0.076542631 | 0.077 | 11.5 | 1 | 11.5 | 0.1 | 0.08111926 | 0.932871486 | 0.093287149 | 0.093 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.087377433 | 183.4926091 | 0.055047783 | 0.055 | 36.3 | 1 | 36.3 | 0.1 | 0.08111926 | 2.944629127 | 0.294462913 | 0.29 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.087377433 | 76.36787635 | 0.022910363 | 0.023 | 20.9 | 1 | 20.9 | 0.1 | 0.08111926 | 1.695392528 | 0.169539253 | 0.17 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.087377433 | 139.8038926 | 0.041941168 | 0.042 | 56.8 | 0 | 0 | 0.1 | 0.08111926 | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.087377433 | 146.7940873 | 0.044038226 | 0.044 | 33.7 | 1 | 33.7 | 0.1 | 0.08111926 | 2.733719052 | 0.273371905 | 0.27 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.087377433 | 147.6678616 | 0.044300358 | 0.044 | 61 | 1 | 61 | 0.1 | 0.08111926 | 4.948274841 | 0.494827484 | 0.49 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.087377433 | 167.7646712 | 0.050329401 | 0.05 | 36.6 | 0 | 0 | 0.1 | 0.08111926 | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.087377433 | 160.7744765 | 0.048232343 | 0.048 | 8.14 | 1 | 8.14 | 0.1 | 0.08111926 | 0.660310774 | 0.066031077 | 0.066 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.087377433 | 104.8529195 | 0.031455876 | 0.031 | 12.6 | 1 | 12.6 | 0.1 | 0.08111926 | 1.022102672 | 0.102210267 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.087377433 | 115.3382114 | 0.034601463 | 0.035 | 12.6 | 1 | 12.6 | 0.1 | 0.08111926 | 1.022102672 | 0.102210267 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.087377433 | 569.7008625 | 0.170910259 | 0.17 | 17.4 | 1 | 17.4 | 0.1 | 0.08111926 | 1.411475119 | 0.141147512 | 0.14 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.087377433 | 110.0955655 | 0.03302867 | 0.033 | 14 | 1 | 14 | 0.1 | 0.08111926 | 1.135669636 | 0.113566964 | 0.11 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.087377433 | 227.1813255 | 0.068154398 | 0.068 | 12.1 | 1 | 12.1 | 0.1 | 0.08111926 | 0.981543042 | 0.098154304 | 0.098 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.087377433 | 208.8320646 | 0.062649619 | 0.063 | 19.1 | 1 | 19.1 | 0.1 | 0.08111926 | 1.54937786 | 0.154937786 | 0.15 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.087377433 | 178.2499631 | 0.053474989 | 0.053 | 27.5 | 1 | 27.5 | 0.1 | 0.08111926 | 2.230779642 | 0.223077964 | 0.22 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.087377433 | | | | | | | 0.1 | 0.08111926 | | | |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.087377433 | 195.7254497 | 0.058717635 | 0.059 | 17.7 | 1 | 17.7 | 0.1 | 0.08111926 | 1.435810897 | 0.14358109 | 0.14 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.087377433 | 164.2695738 | 0.049280872 | 0.049 | 13.1 | 1 | 13.1 | 0.1 | 0.08111926 | 1.062662302 | 0.10626623 | 0.11 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.087377433 | 210.5796133 | 0.063173884 | 0.063 | 22.1 | 1 | 22.1 | 0.1 | 0.08111926 | 1.792735639 | 0.179273564 | 0.18 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.087377433 | 152.9105076 | 0.045873152 | 0.046 | 68.5 | 1 | 68.5 | 0.1 | 0.08111926 | 5.556669289 | 0.555666929 | 0.56 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.087377433 | 275.2389136 | 0.082571674 | 0.083 | 38.4 | 1 | 38.4 | 0.1 | 0.08111926 | 3.114979572 | 0.311497957 | 0.31 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.087377433 | 170.3859941 | 0.051115798 | 0.051 | 79.9 | 1 | 79.9 | 0.1 | 0.08111926 | 6.481428849 | 0.648142885 | 0.65 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.087377433 | 247.2781351 | 0.074183441 | 0.074 | 88.9 | 1 | 88.9 | 0.1 | 0.08111926 | 7.211502187 | 0.721150219 | 0.72 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.087377433 | 370.4803155 | 0.111144095 | 0.11 | 140 | 1 | 140 | 0.1 | 0.08111926 | 11.35669636 | 1.135669636 | 1.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.087377433 | 129.3186007 | 0.03879558 | 0.039 | 70.6 | 1 | 70.6 | 0.1 | 0.08111926 | 5.727019734 | 0.572701973 | 0.57 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.087377433 | 76.19312149 | 0.022857936 | 0.023 | 63.9 | 1 | 63.9 | 0.1 | 0.08111926 | 5.183520694 | 0.518352069 | 0.52 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.087377433 | 256.8896527 | 0.077066896 | 0.077 | 69 | 1 | 69 | 0.1 | 0.08111926 | 5.597228919 | 0.559722892 | 0.56 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.087377433 | 221.9386796 | 0.066581604 | 0.067 | 32.5 | 1 | 32.5 | 0.1 | 0.08111926 | 2.63637594 | 0.263637594 | 0.26 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.087377433 | 190.4828037 | 0.057144841 | 0.057 | 97.7 | 1 | 97.7 | 0.1 | 0.08111926 | 7.925351672 | 0.792535167 | 0.79 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.087377433 | 246.4043608 | 0.073921308 | 0.074 | 28.9 | 1 | 28.9 | 0.1 | 0.08111926 | 2.344346605 | 0.234434661 | 0.23 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.087377433 | 127.571052 | 0.038271316 | 0.038 | 26.3 | 1 | 26.3 | 0.1 | 0.08111926 | 2.13343653 | 0.213343653 | 0.21 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.087377433 | 38.53344791 | 0.011560034 | 0.012 | 117 | 1 | 117 | 0.1 | 0.08111926 | 9.490953384 | 0.949095338 | 0.95 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.087377433 | | | | | | | 0.1 | 0.08111926 | | | |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.087377433 | 194.8516754 | 0.058455503 | 0.058 | 94.9 | 1 | 94.9 | 0.1 | 0.08111926 | 7.698217745 | 0.769821774 | 0.77 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.087377433 | 323.2965017 | 0.096988951 | 0.097 | 304 | 0 | 0 | 0.1 | 0.08111926 | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.087377433 | 151.1629589 | 0.045348888 | 0.045 | 122 | 1 | 122 | 0.1 | 0.08111926 | 9.896549682 | 0.989654968 | 0.99 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.087377433 | 183.4926091 | 0.055047783 | 0.055 | 76.4 | 1 | 76.4 | 0.1 | 0.08111926 | 6.19751144 | 0.619751144 | 0.62 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.087377433 | 228.0550999 | 0.06841653 | 0.068 | 35.6 | 1 | 35.6 | 0.1 | 0.08111926 | 2.887845645 | 0.288784565 | 0.29 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.087377433 | 387.9558021 | 0.116386741 | 0.12 | 29.1 | 1 | 29.1 | 0.1 | 0.08111926 | 2.360570457 | 0.236057046 | 0.24 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.087377433 | 152.9105076 | 0.045873152 | 0.046 | 30.5 | 1 | 30.5 | 0.1 | 0.08111926 | 2.474137421 | 0.247413742 | 0.25 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.087377433 | 250.7732324 | 0.07523197 | 0.075 | 279 | 1 | 279 | 0.1 | 0.08111926 | 22.63227345 | 2.263227345 | 2.3 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.087377433 | 128.4448264 | 0.038533448 | 0.039 | 437 | 1 | 437 | 0.1 | 0.08111926 | 35.44911649 | 3.544911649 | 3.5 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.087377433 | 175.6286401 | 0.052688592 | 0.053 | 26.8 | 1 | 26.8 | 0.1 | 0.08111926 | 2.17399616 | 0.217399616 | 0.22 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.087377433 | 438.6347131 | 0.131590414 | 0.13 | 602 | 0 | 0 | 0.1 | 0.08111926 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.087377433 | 50.85366595 | 0.0152561 | 0.015 | 108 | 1 | 108 | 0.1 | 0.08111926 | 8.760880047 | 0.876088005 | 0.88 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.087377433 | 100.4840478 | 0.030145214 | 0.03 | 16.6 | 1 | 16.6 | 0.1 | 0.08111926 | 1.346579711 | 0.134657971 | 0.13 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.087377433 | 175.6286401 | 0.052688592 | 0.053 | 47.6 | 1 | 47.6 | 0.1 | 0.08111926 | 3.861276761 | 0.386127676 | 0.39 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.087377433 | 153.7842819 | 0.046135285 | 0.046 | 6.81 | 1 | 6.81 | 0.1 | 0.08111926 | 0.552422158 | 0.055242216 | 0.055 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.087377433 | 182.6188348 | 0.05478565 | 0.055 | 1.24 | 1 | 1.24 | 0.1 | 0.08111926 | 0.100587882 | 0.010058788 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.087377433 | 186.1139321 | 0.05583418 | 0.056 | 4.18 | 1 | 4.18 | 0.1 | 0.08111926 | 0.339078506 | 0.033907851 | 0.034 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.087377433 | 112.7168884 | 0.033815067 | 0.034 | 0.58 | 0 | 0 | 0.1 | 0.08111926 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.087377433 | 238.5403918 | 0.071562118 | 0.072 | 10.2 | 1 | 10.2 | 0.1 | 0.08111926 | 0.827416449 | 0.082741645 | 0.083 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.087377433 | 206.2107416 | 0.061863222 | 0.062 | 4.32 | 0 | 0 | 0.1 | 0.08111926 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.087377433 | 170.3859941 | 0.051115798 | 0.051 | 20.8 | 1 | 20.8 | 0.1 | 0.08111926 | 1.687280602 | 0.16872806 | 0.17 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.087377433 | 301.4521435 | 0.090435643 | 0.09 | 24.1 | 1 | 24.1 | 0.1 | 0.08111926 | 1.954974159 | 0.195497416 | 0.2 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.087377433 | 236.355956 | 0.070906787 | 0.071 | 4.7 | 1 | 4.7 | 0.1 | 0.08111926 | 0.381260521 | 0.038126052 | 0.038 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.087377433 | | | | | | | 0.1 | 0.08111926 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.087377433 | 165.1433482 | 0.049543004 | 0.05 | 22.7 | 1 | 22.7 | 0.1 | 0.08111926 | 1.841407195 | 0.184140719 | 0.18 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.087377433 | 88.25120723 | 0.026475362 | 0.026 | 8.27 | 1 | 8.27 | 0.1 | 0.08111926 | 0.670856278 | 0.067085628 | 0.067 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.087377433 | 189.6090294 | 0.056882709 | 0.057 | 3.8 | 1 | 3.8 | 0.1 | 0.08111926 | 0.308253187 | 0.030825319 | 0.031 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.087377433 | 260.38475 | 0.078115425 | 0.078 | 683 | 1 | 683 | 0.1 | 0.08111926 | 55.40445437 | 5.540445437 | 5.5 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.087377433 | 281.3553339 | 0.0844066 | 0.084 | 1.28 | 1 | 1.28 | 0.1 | 0.08111926 | 0.103832652 | 0.010383265 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.087377433 | 145.0465386 | 0.043513962 | 0.044 | 2.1 | 1 | 2.1 | 0.1 | 0.08111926 | 0.170350445 | 0.017035045 | 0.017 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.087377433 | 186.1139321 | 0.05583418 | 0.056 | 3 | 1 | 3 | 0.1 | 0.08111926 | 0.243357779 | 0.024335778 | 0.024 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.087377433 | 236.7928432 | 0.071037853 | 0.071 | 2.1 | 1 | 2.1 | 0.1 | 0.08111926 | 0.170350445 | 0.017035045 | 0.017 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.087377433 | 226.7444384 | 0.068023332 | 0.068 | 422.6 | 1 | 422.6 | 0.1 | 0.08111926 | 34.28099915 | 3.428099915 | 3.4 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.087377433 | | | | | | | 0.1 | 0.08111926 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.087377433 | 152.9105076 | 0.045873152 | 0.046 | 182 | 1 | 182 | 0.1 | 0.08111926 | 14.76370526 | 1.476370526 | 1.5 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.087377433 | 207.9582903 | 0.062387487 | 0.062 | 38.4 | 1 | 38.4 | 0.1 | 0.08111926 | 3.114979572 | 0.311497957 | 0.31 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.087377433 | 283.1028826 | 0.084930865 | 0.085 | 34.8 | 1 | 34.8 | 0.1 | 0.08111926 | 2.822950237 | 0.282295024 | 0.28 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.087377433 | | | | | | | 0.1 | 0.08111926 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.087377433 | 105.7266938 | 0.031718008 | 0.032 | 15.2 | 1 | 15.2 | 0.1 | 0.08111926 | 1.233012747 | 0.123301275 | 0.12 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.087377433 | 186.1139321 | 0.05583418 | 0.056 | 556 | 1 | 556 | 0.1 | 0.08111926 | 45.10230839 | 4.510230839 | 4.5 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.087377433 | 142.4252156 | 0.042727565 | 0.043 | 28.7 | 1 | 28.7 | 0.1 | 0.08111926 | 2.328122753 | 0.232812275 | 0.23 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.087377433 | 85.36775194 | 0.025610326 | 0.026 | 12.6 | 1 | 12.6 | 0.1 | 0.08111926 | 1.022102672 | 0.102210267 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.087377433 | 80.736748 | 0.024221024 | 0.024 | 10.5 | 1 | 10.5 | 0.1 | 0.08111926 | 0.851752227 | 0.085175223 | 0.085 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.087377433 | 78.55231217 | 0.023565694 | 0.024 | 6.5 | 1 | 6.5 | 0.1 | 0.08111926 | 0.527275188 | 0.052727519 | 0.053 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.087377433 | 366.9852182 | 0.110095565 | 0.11 | 65.7 | 1 | 65.7 | 0.1 | 0.08111926 | 5.329535362 | 0.532953536 | 0.53 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.087377433 | 51.55268541 | 0.015465806 | 0.015 | 5.3 | 1 | 5.3 | 0.1 | 0.08111926 | 0.429932076 | 0.042993208 | 0.043 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.087377433 | 94.36762753 | 0.028310288 | 0.028 | 7.5 | 1 | 7.5 | 0.1 | 0.08111926 | 0.608394448 | 0.060839445 | 0.061 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.087377433 | 115.3382114 | 0.034601463 | 0.035 | 11.8 | 1 | 11.8 | 0.1 | 0.08111926 | 0.957207264 | 0.095720726 | 0.096 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.087377433 | 30.84423381 | 0.00925327 | 0.0093 | 30.9 | 1 | 30.9 | 0.1 | 0.08111926 | 2.506585124 | 0.250658512 | 0.25 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.087377433 | 870.2792317 | 0.261083769 | 0.26 | 12.2 | 1 | 12.2 | 0.1 | 0.08111926 | 0.989654968 | 0.098965497 | 0.099 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.087377433 | 130.192375 | 0.039057713 | 0.039 | 17.7 | 1 | 17.7 | 0.1 | 0.08111926 | 1.435810897 | 0.14358109 | 0.14 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.025524812 | 76.57443609 | 0.022972331 | 0.023 | 38.6 | 1 | 38.6 | 0.1 | 0.104070677 | 4.01712812 | 0.401712812 | 0.4 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.025524812 | 76.31918797 | 0.022895756 | 0.023 | 11.8 | 1 | 11.8 | 0.1 | 0.104070677 | 1.228033985 | 0.122803398 | 0.12 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.025524812 | 80.65840602 | 0.024197522 | 0.024 | 81 | 1 | 81 | 0.1 | 0.104070677 | 8.429724812 | 0.842972481 | 0.84 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.025524812 | 44.66842105 | 0.013400526 | 0.013 | 23.1 | 1 | 23.1 | 0.1 | 0.104070677 | 2.404032632 | 0.240403263 | 0.24 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.025524812 | 55.64409023 | 0.016693227 | 0.017 | 13.7 | 1 | 13.7 | 0.1 | 0.104070677 | 1.425768271 | 0.142576827 | 0.14 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.025524812 | 78.36117293 | 0.023508352 | 0.024 | 14.1 | 1 | 14.1 | 0.1 | 0.104070677 | 1.467396541 | 0.146739654 | 0.15 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.025524812 | 57.68607519 | 0.017305823 | 0.017 | 10.8 | 1 | 10.8 | 0.1 | 0.104070677 | 1.123963308 | 0.112396331 | 0.11 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.025524812 | 33.948 | 0.0101844 | 0.01 | 1.71 | 1 | 1.71 | 0.1 | 0.104070677 | 0.177960857 | 0.017796086 | 0.018 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.025524812 | 174.8449624 | 0.052453489 | 0.052 | 30 | 1 | 30 | 0.1 | 0.104070677 | 3.122120301 | 0.31221203 | 0.31 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.025524812 | 150.0858947 | 0.045025768 | 0.045 | 22.9 | 1 | 22.9 | 0.1 | 0.104070677 | 2.383218496 | 0.23832185 | 0.24 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.025524812 | 53.60210526 | 0.016080632 | 0.016 | 17.7 | 1 | 17.7 | 0.1 | 0.104070677 | 1.842050977 | 0.184205098 | 0.18 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.025524812 | 205.9852331 | 0.06179557 | 0.062 | 23.3 | 1 | 23.3 | 0.1 | 0.104070677 | 2.424846767 | 0.242484677 | 0.24 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.025524812 | 156.977594 | 0.047093278 | 0.047 | 23.4 | 1 | 23.4 | 0.1 | 0.104070677 | 2.435253835 | 0.243525383 | 0.24 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.025524812 | 145.2361805 | 0.043570854 | 0.044 | 23 | 1 | 23 | 0.1 | 0.104070677 | 2.393625564 | 0.239362556 | 0.24 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.025524812 | | | | | | | 0.1 | 0.104070677 | | | |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.025524812 | 49.51813534 | 0.014855441 | 0.015 | 15.2 | 1 | 15.2 | 0.1 | 0.104070677 | 1.581874286 | 0.158187429 | 0.16 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.025524812 | 102.3544962 | 0.030706349 | 0.031 | 7.65 | 0 | 0 | 0.1 | 0.104070677 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.025524812 | 127.6240602 | 0.038287218 | 0.038 | 4.17 | 1 | 4.17 | 0.1 | 0.104070677 | 0.433974722 | 0.043397472 | 0.043 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.025524812 | 93.67606015 | 0.028102818 | 0.028 | 3.83 | 1 | 3.83 | 0.1 | 0.104070677 | 0.398590692 | 0.039859069 | 0.04 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.025524812 | 82.44514286 | 0.024733543 | 0.025 | 22.6 | 1 | 22.6 | 0.1 | 0.104070677 | 2.351997293 | 0.235199729 | 0.24 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.025524812 | 131.9632782 | 0.039588983 | 0.04 | 21 | 1 | 21 | 0.1 | 0.104070677 | 2.185484211 | 0.218548421 | 0.22 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.025524812 | 40.58445113 | 0.012175335 | 0.012 | 5.37 | 1 | 5.37 | 0.1 | 0.104070677 | 0.558859534 | 0.055885953 | 0.056 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.025524812 | 74.53245113 | 0.022359735 | 0.022 | 11.5 | 1 | 11.5 | 0.1 | 0.104070677 | 1.196812782 | 0.119681278 | 0.12 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.025524812 | 53.60210526 | 0.016080632 | 0.016 | 36.3 | 1 | 36.3 | 0.1 | 0.104070677 | 3.777765564 | 0.377776556 | 0.38 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.025524812 | 22.30868571 | 0.006692606 | 0.0067 | 20.9 | 1 | 20.9 | 0.1 | 0.104070677 | 2.175077143 | 0.217507714 | 0.22 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.025524812 | 40.83969925 | 0.01225191 | 0.012 | 56.8 | 0 | 0 | 0.1 | 0.104070677 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.025524812 | 42.88168421 | 0.012864505 | 0.013 | 33.7 | 1 | 33.7 | 0.1 | 0.104070677 | 3.507181805 | 0.35071818 | 0.35 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.025524812 | 43.13693233 | 0.01294108 | 0.013 | 61 | 1 | 61 | 0.1 | 0.104070677 | 6.348311278 | 0.634831128 | 0.63 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.025524812 | 49.0076391 | 0.014702292 | 0.015 | 36.6 | 0 | 0 | 0.1 | 0.104070677 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.025524812 | 46.96565414 | 0.014089696 | 0.014 | 8.14 | 1 | 8.14 | 0.1 | 0.104070677 | 0.847135308 | 0.084713531 | 0.085 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.025524812 | 30.62977444 | 0.009188932 | 0.0092 | 12.6 | 1 | 12.6 | 0.1 | 0.104070677 | 1.311290526 | 0.131129053 | 0.13 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.025524812 | 33.69275188 | 0.010107826 | 0.01 | 12.6 | 1 | 12.6 | 0.1 | 0.104070677 | 1.311290526 | 0.131129053 | 0.13 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.025524812 | 166.4217744 | 0.049926532 | 0.05 | 17.4 | 1 | 17.4 | 0.1 | 0.104070677 | 1.810829774 | 0.181082977 | 0.18 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.025524812 | 32.16126316 | 0.009648379 | 0.0096 | 14 | 1 | 14 | 0.1 | 0.104070677 | 1.456989474 | 0.145698947 | 0.15 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.025524812 | 66.36451128 | 0.019909353 | 0.02 | 12.1 | 1 | 12.1 | 0.1 | 0.104070677 | 1.259255188 | 0.125925519 | 0.13 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.025524812 | 61.00430075 | 0.01830129 | 0.018 | 19.1 | 1 | 19.1 | 0.1 | 0.104070677 | 1.987749925 | 0.198774992 | 0.2 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.025524812 | 52.07061654 | 0.015621185 | 0.016 | 27.5 | 1 | 27.5 | 0.1 | 0.104070677 | 2.861943609 | 0.286194361 | 0.29 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.025524812 | | | | | | | 0.1 | 0.104070677 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.025524812 | 57.17557895 | 0.017152674 | 0.017 | 17.7 | 1 | 17.7 | 0.1 | 0.104070677 | 1.842050977 | 0.184205098 | 0.18 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.025524812 | 47.98664662 | 0.014395994 | 0.014 | 13.1 | 1 | 13.1 | 0.1 | 0.104070677 | 1.363325865 | 0.136332586 | 0.14 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.025524812 | 61.51479699 | 0.018454439 | 0.018 | 22.1 | 1 | 22.1 | 0.1 | 0.104070677 | 2.299961955 | 0.229996195 | 0.23 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.025524812 | 44.66842105 | 0.013400526 | 0.013 | 68.5 | 1 | 68.5 | 0.1 | 0.104070677 | 7.128841353 | 0.712884135 | 0.71 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.025524812 | 80.40315789 | 0.024120947 | 0.024 | 38.4 | 1 | 38.4 | 0.1 | 0.104070677 | 3.996313985 | 0.399631398 | 0.4 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.025524812 | 49.77338346 | 0.014932015 | 0.015 | 79.9 | 1 | 79.9 | 0.1 | 0.104070677 | 8.315247068 | 0.831524707 | 0.83 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.025524812 | 72.23521805 | 0.021670565 | 0.022 | 88.9 | 1 | 88.9 | 0.1 | 0.104070677 | 9.251883158 | 0.925188316 | 0.93 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.025524812 | 108.225203 | 0.032467561 | 0.032 | 140 | 1 | 140 | 0.1 | 0.104070677 | 14.56989474 | 1.456989474 | 1.5 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.025524812 | 37.7767218 | 0.011333017 | 0.011 | 70.6 | 1 | 70.6 | 0.1 | 0.104070677 | 7.347389774 | 0.734738977 | 0.73 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.025524812 | 22.25763609 | 0.006677291 | 0.0067 | 63.9 | 1 | 63.9 | 0.1 | 0.104070677 | 6.650116241 | 0.665011624 | 0.67 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.025524812 | 75.04294737 | 0.022512884 | 0.023 | 69 | 1 | 69 | 0.1 | 0.104070677 | 7.180876692 | 0.718087669 | 0.72 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.025524812 | 64.83302256 | 0.019449907 | 0.019 | 32.5 | 1 | 32.5 | 0.1 | 0.104070677 | 3.382296992 | 0.338229699 | 0.34 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.025524812 | 55.64409023 | 0.016693227 | 0.017 | 97.7 | 1 | 97.7 | 0.1 | 0.104070677 | 10.16770511 | 1.016770511 | 1 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.025524812 | 71.97996992 | 0.021593991 | 0.022 | 28.9 | 1 | 28.9 | 0.1 | 0.104070677 | 3.007642556 | 0.300764256 | 0.3 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.025524812 | 37.26622556 | 0.011179868 | 0.011 | 26.3 | 1 | 26.3 | 0.1 | 0.104070677 | 2.737058797 | 0.27370588 | 0.27 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.025524812 | 11.25644211 | 0.003376933 | 0.0034 | 117 | 1 | 117 | 0.1 | 0.104070677 | 12.17626917 | 1.217626917 | 1.2 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.025524812 | | | | | | | 0.1 | 0.104070677 | | | |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.025524812 | 56.92033083 | 0.017076099 | 0.017 | 94.9 | 1 | 94.9 | 0.1 | 0.104070677 | 9.876307218 | 0.987630722 | 0.99 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.025524812 | 94.44180451 | 0.028332541 | 0.028 | 304 | 0 | 0 | 0.1 | 0.104070677 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.025524812 | 44.15792481 | 0.013247377 | 0.013 | 122 | 1 | 122 | 0.1 | 0.104070677 | 12.69662256 | 1.269662256 | 1.3 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.025524812 | 53.60210526 | 0.016080632 | 0.016 | 76.4 | 1 | 76.4 | 0.1 | 0.104070677 | 7.950999699 | 0.79509997 | 0.8 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.025524812 | 66.6197594 | 0.019985928 | 0.02 | 35.6 | 1 | 35.6 | 0.1 | 0.104070677 | 3.70491609 | 0.370491609 | 0.37 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.025524812 | 113.3301654 | 0.03399905 | 0.034 | 29.1 | 1 | 29.1 | 0.1 | 0.104070677 | 3.028456692 | 0.302845669 | 0.3 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.025524812 | 44.66842105 | 0.013400526 | 0.013 | 30.5 | 1 | 30.5 | 0.1 | 0.104070677 | 3.174155639 | 0.317415564 | 0.32 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.025524812 | 73.25621053 | 0.021976863 | 0.022 | 279 | 1 | 279 | 0.1 | 0.104070677 | 29.0357188 | 2.90357188 | 2.9 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.025524812 | 37.52147368 | 0.011256442 | 0.011 | 437 | 1 | 437 | 0.1 | 0.104070677 | 45.47888571 | 4.547888571 | 4.5 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.025524812 | 51.30487218 | 0.015391462 | 0.015 | 26.8 | 1 | 26.8 | 0.1 | 0.104070677 | 2.789094135 | 0.278909414 | 0.28 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.025524812 | 128.1345564 | 0.038440367 | 0.038 | 602 | 0 | 0 | 0.1 | 0.104070677 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.025524812 | 14.8554406 | 0.004456632 | 0.0045 | 108 | 1 | 108 | 0.1 | 0.104070677 | 11.23963308 | 1.123963308 | 1.1 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.025524812 | 29.35353383 | 0.00880606 | 0.0088 | 16.6 | 1 | 16.6 | 0.1 | 0.104070677 | 1.727573233 | 0.172757323 | 0.17 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.025524812 | 51.30487218 | 0.015391462 | 0.015 | 47.6 | 1 | 47.6 | 0.1 | 0.104070677 | 4.953764211 | 0.495376421 | 0.5 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.025524812 | 44.92366917 | 0.013477101 | 0.013 | 6.81 | 1 | 6.81 | 0.1 | 0.104070677 | 0.708721308 | 0.070872131 | 0.071 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.025524812 | 53.34685714 | 0.016004057 | 0.016 | 1.24 | 1 | 1.24 | 0.1 | 0.104070677 | 0.129047639 | 0.012904764 | 0.013 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.025524812 | 54.36784962 | 0.016310355 | 0.016 | 4.18 | 1 | 4.18 | 0.1 | 0.104070677 | 0.435015429 | 0.043501543 | 0.044 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.025524812 | 32.92700752 | 0.009878102 | 0.0099 | 0.58 | 0 | 0 | 0.1 | 0.104070677 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.025524812 | 69.68273684 | 0.020904821 | 0.021 | 10.2 | 1 | 10.2 | 0.1 | 0.104070677 | 1.061520902 | 0.10615209 | 0.11 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.025524812 | 60.23855639 | 0.018071567 | 0.018 | 4.32 | 0 | 0 | 0.1 | 0.104070677 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.025524812 | 49.77338346 | 0.014932015 | 0.015 | 20.8 | 1 | 20.8 | 0.1 | 0.104070677 | 2.164670075 | 0.216467008 | 0.22 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.025524812 | 88.0606015 | 0.02641818 | 0.026 | 24.1 | 1 | 24.1 | 0.1 | 0.104070677 | 2.508103308 | 0.250810331 | 0.25 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.025524812 | 69.04461654 | 0.020713385 | 0.021 | 4.7 | 1 | 4.7 | 0.1 | 0.104070677 | 0.48913218 | 0.048913218 | 0.049 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.025524812 | | | | | | | 0.1 | 0.104070677 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.025524812 | 48.24189474 | 0.014472568 | 0.014 | 22.7 | 1 | 22.7 | 0.1 | 0.104070677 | 2.362404361 | 0.236240436 | 0.24 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.025524812 | 25.78006015 | 0.007734018 | 0.0077 | 8.27 | 1 | 8.27 | 0.1 | 0.104070677 | 0.860664496 | 0.08606645 | 0.086 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.025524812 | 55.38884211 | 0.016616653 | 0.017 | 3.8 | 1 | 3.8 | 0.1 | 0.104070677 | 0.395468571 | 0.039546857 | 0.04 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.025524812 | 76.06393985 | 0.022819182 | 0.023 | 683 | 1 | 683 | 0.1 | 0.104070677 | 71.08027218 | 7.108027218 | 7.1 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.025524812 | 82.18989474 | 0.024656968 | 0.025 | 1.28 | 1 | 1.28 | 0.1 | 0.104070677 | 0.133210466 | 0.013321047 | 0.013 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.025524812 | 42.37118797 | 0.012711356 | 0.013 | 2.1 | 1 | 2.1 | 0.1 | 0.104070677 | 0.218548421 | 0.021854842 | 0.022 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.025524812 | 54.36784962 | 0.016310355 | 0.016 | 3 | 1 | 3 | 0.1 | 0.104070677 | 0.31221203 | 0.031221203 | 0.031 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.025524812 | 69.1722406 | 0.020751672 | 0.021 | 2.1 | 1 | 2.1 | 0.1 | 0.104070677 | 0.218548421 | 0.021854842 | 0.022 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.025524812 | 66.23688722 | 0.019871066 | 0.02 | 422.6 | 1 | 422.6 | 0.1 | 0.104070677 | 43.98026797 | 4.398026797 | 4.4 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.025524812 | | | | | | | 0.1 | 0.104070677 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.025524812 | 44.66842105 | 0.013400526 | 0.013 | 182 | 1 | 182 | 0.1 | 0.104070677 | 18.94086316 | 1.894086316 | 1.9 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.025524812 | 60.74905263 | 0.018224716 | 0.018 | 38.4 | 1 | 38.4 | 0.1 | 0.104070677 | 3.996313985 | 0.399631398 | 0.4 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.025524812 | 82.70039098 | 0.024810117 | 0.025 | 34.8 | 1 | 34.8 | 0.1 | 0.104070677 | 3.621659549 | 0.362165955 | 0.36 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.025524812 | | | | | | | 0.1 | 0.104070677 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.025524812 | 30.88502256 | 0.009265507 | 0.0093 | 15.2 | 1 | 15.2 | 0.1 | 0.104070677 | 1.581874286 | 0.158187429 | 0.16 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.025524812 | 54.36784962 | 0.016310355 | 0.016 | 556 | 1 | 556 | 0.1 | 0.104070677 | 57.86329624 | 5.786329624 | 5.8 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.025524812 | 41.60544361 | 0.012481633 | 0.012 | 28.7 | 1 | 28.7 | 0.1 | 0.104070677 | 2.986828421 | 0.298682842 | 0.3 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.025524812 | 24.93774135 | 0.007481322 | 0.0075 | 12.6 | 1 | 12.6 | 0.1 | 0.104070677 | 1.311290526 | 0.131129053 | 0.13 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.025524812 | 23.58492632 | 0.007075478 | 0.0071 | 10.5 | 1 | 10.5 | 0.1 | 0.104070677 | 1.092742105 | 0.109274211 | 0.11 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.025524812 | 22.94680602 | 0.006884042 | 0.0069 | 6.5 | 1 | 6.5 | 0.1 | 0.104070677 | 0.676459398 | 0.06764594 | 0.068 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.025524812 | 107.2042105 | 0.032161263 | 0.032 | 65.7 | 1 | 65.7 | 0.1 | 0.104070677 | 6.837443459 | 0.683744346 | 0.68 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.025524812 | 15.0596391 | 0.004517892 | 0.0045 | 5.3 | 1 | 5.3 | 0.1 | 0.104070677 | 0.551574586 | 0.055157459 | 0.055 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.025524812 | 27.56679699 | 0.008270039 | 0.0083 | 7.5 | 1 | 7.5 | 0.1 | 0.104070677 | 0.780530075 | 0.078053008 | 0.078 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.025524812 | 33.69275188 | 0.010107826 | 0.01 | 11.8 | 1 | 11.8 | 0.1 | 0.104070677 | 1.228033985 | 0.122803398 | 0.12 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.025524812 | 9.010258647 | 0.002703078 | 0.0027 | 30.9 | 1 | 30.9 | 0.1 | 0.104070677 | 3.21578391 | 0.321578391 | 0.32 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.025524812 | 254.2271278 | 0.076268138 | 0.076 | 12.2 | 1 | 12.2 | 0.1 | 0.104070677 | 1.269662256 | 0.126966226 | 0.13 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.025524812 | 38.03196992 | 0.011409591 | 0.011 | 17.7 | 1 | 17.7 | 0.1 | 0.104070677 | 1.842050977 | 0.184205098 | 0.18 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.243414559 | 22.97833439 | 0.0068935 | 0.0069 | 0.15 | 0 | 0 | 0.1 | 1.563527814 | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.243414559 | 242.1974864 | 0.072659246 | 0.073 | 64.2 | 1 | 64.2 | 0.1 | 1.563527814 | 100.3784856 | 10.03784856 | 10 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.243414559 | 118.5428903 | 0.035562867 | 0.036 | 0.63 | 1 | 0.63 | 0.1 | 1.563527814 | 0.985022523 | 0.098502252 | 0.099 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.243414559 | 511.1705742 | 0.153351172 | 0.15 | 30.8 | 1 | 30.8 | 0.1 | 1.563527814 | 48.15665666 | 4.815665666 | 4.8 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.243414559 | 41.38047506 | 0.012414143 | 0.012 | 5.92 | 1 | 5.92 | 0.1 | 1.563527814 | 9.256084656 | 0.925608466 | 0.93 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.243414559 | 11.02667953 | 0.003308004 | 0.0033 | 1.91 | 1 | 1.91 | 0.1 | 1.563527814 | 2.986338124 | 0.298633812 | 0.3 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.243414559 | 67.91266201 | 0.020373799 | 0.02 | 9.18 | 1 | 9.18 | 0.1 | 1.563527814 | 14.35318533 | 1.435318533 | 1.4 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.243414559 | 494.1315551 | 0.148239467 | 0.15 | 33.3 | 1 | 33.3 | 0.1 | 1.563527814 | 52.06547619 | 5.206547619 | 5.2 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.243414559 | 90.30680145 | 0.02709204 | 0.027 | 12.6 | 1 | 12.6 | 0.1 | 1.563527814 | 19.70045045 | 1.970045045 | 2 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.243414559 | 74.72826966 | 0.022418481 | 0.022 | 9.82 | 1 | 9.82 | 0.1 | 1.563527814 | 15.35384313 | 1.535384313 | 1.5 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.243414559 | | | | | | | 0.1 | 1.563527814 | | | |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.243414559 | | | | | | | 0.1 | 1.563527814 | | | |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.243414559 | | | | | | | 0.1 | 1.563527814 | | | |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.243414559 | | | | | | | 0.1 | 1.563527814 | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.365299926 | 34.48431306 | 0.010345294 | 0.01 | 0.15 | 0 | 0 | 0.1 | 6.498702092 | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.365299926 | 363.4734268 | 0.109042028 | 0.11 | 64.2 | 1 | 64.2 | 0.1 | 6.498702092 | 417.2166743 | 41.72166743 | 42 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.365299926 | 177.9010642 | 0.053370319 | 0.053 | 0.63 | 1 | 0.63 | 0.1 | 6.498702092 | 4.094182318 | 0.409418232 | 0.41 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.365299926 | 767.1298456 | 0.230138954 | 0.23 | 30.8 | 1 | 30.8 | 0.1 | 6.498702092 | 200.1600244 | 20.01600244 | 20 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.365299926 | 62.1009875 | 0.018630296 | 0.019 | 5.92 | 1 | 5.92 | 0.1 | 6.498702092 | 38.47231638 | 3.847231638 | 3.8 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.365299926 | 16.54808667 | 0.004964426 | 0.005 | 1.91 | 1 | 1.91 | 0.1 | 6.498702092 | 12.412521 | 1.2412521 | 1.2 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.365299926 | 101.9186795 | 0.030575604 | 0.031 | 9.18 | 1 | 9.18 | 0.1 | 6.498702092 | 59.6580852 | 5.96580852 | 6 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.365299926 | 741.5588507 | 0.222467655 | 0.22 | 33.3 | 1 | 33.3 | 0.1 | 6.498702092 | 216.4067797 | 21.64067797 | 22 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.365299926 | 135.5262727 | 0.040657882 | 0.041 | 12.6 | 1 | 12.6 | 0.1 | 6.498702092 | 81.88364636 | 8.188364636 | 8.2 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.365299926 | 112.1470774 | 0.033644123 | 0.034 | 9.82 | 1 | 9.82 | 0.1 | 6.498702092 | 63.81725454 | 6.381725454 | 6.4 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.365299926 | | | | | | | 0.1 | 6.498702092 | | | |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.365299926 | | | | | | | 0.1 | 6.498702092 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.365299926 | | | | | | | 0.1 | 6.498702092 | | | |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.365299926 | | | | | | | 0.1 | 6.498702092 | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.062199168 | 5.871601461 | 0.00176148 | 0.0018 | 0.15 | 0 | 0 | 0.1 | 1.055917984 | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.062199168 | 61.88817218 | 0.018566452 | 0.019 | 64.2 | 1 | 64.2 | 0.1 | 1.055917984 | 67.78993456 | 6.778993456 | 6.8 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.062199168 | 30.29099482 | 0.009087298 | 0.0091 | 0.63 | 1 | 0.63 | 0.1 | 1.055917984 | 0.66522833 | 0.066522833 | 0.067 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.062199168 | 130.6182528 | 0.039185476 | 0.039 | 30.8 | 1 | 30.8 | 0.1 | 1.055917984 | 32.5222739 | 3.25222739 | 3.3 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.062199168 | 10.57385856 | 0.003172158 | 0.0032 | 5.92 | 1 | 5.92 | 0.1 | 1.055917984 | 6.251034464 | 0.625103446 | 0.63 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.062199168 | 2.817622311 | 0.000845287 | 0.00085 | 1.91 | 1 | 1.91 | 0.1 | 1.055917984 | 2.016803349 | 0.201680335 | 0.2 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.062199168 | 17.35356788 | 0.00520607 | 0.0052 | 9.18 | 1 | 9.18 | 0.1 | 1.055917984 | 9.693327091 | 0.969332709 | 0.97 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.062199168 | 126.2643111 | 0.037879293 | 0.038 | 33.3 | 1 | 33.3 | 0.1 | 1.055917984 | 35.16206886 | 3.516206886 | 3.5 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.062199168 | 23.07589133 | 0.006922767 | 0.0069 | 12.6 | 1 | 12.6 | 0.1 | 1.055917984 | 13.3045666 | 1.33045666 | 1.3 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.062199168 | 19.09514458 | 0.005728543 | 0.0057 | 9.82 | 1 | 9.82 | 0.1 | 1.055917984 | 10.3691146 | 1.03691146 | 1 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.062199168 | | | | | | | 0.1 | 1.055917984 | | | |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.062199168 | | | | | | | 0.1 | 1.055917984 | | | |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.062199168 | | | | | | | 0.1 | 1.055917984 | | | |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.062199168 | | | | | | | 0.1 | 1.055917984 | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1.864010117 | 175.962555 | 0.052788767 | 0.053 | 0.15 | 0 | 0 | 0.1 | 2.751320803 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 1.864010117 | 1854.690066 | 0.55640702 | 0.56 | 64.2 | 1 | 64.2 | 0.1 | 2.751320803 | 176.6347956 | 17.66347956 | 18 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 1.864010117 | 907.772927 | 0.272331878 | 0.27 | 0.63 | 1 | 0.63 | 0.1 | 2.751320803 | 1.733332106 | 0.173333211 | 0.17 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.864010117 | 3914.421246 | 1.174326374 | 1.2 | 30.8 | 1 | 30.8 | 0.1 | 2.751320803 | 84.74068075 | 8.474068075 | 8.5 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 1.864010117 | 316.8817199 | 0.095064516 | 0.095 | 5.92 | 1 | 5.92 | 0.1 | 2.751320803 | 16.28781916 | 1.628781916 | 1.6 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.864010117 | 84.4396583 | 0.025331897 | 0.025 | 1.91 | 1 | 1.91 | 0.1 | 2.751320803 | 5.255022735 | 0.525502273 | 0.53 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.864010117 | 520.0588226 | 0.156017647 | 0.16 | 9.18 | 1 | 9.18 | 0.1 | 2.751320803 | 25.25712498 | 2.525712498 | 2.5 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.864010117 | 3783.940537 | 1.135182161 | 1.1 | 33.3 | 1 | 33.3 | 0.1 | 2.751320803 | 91.61898276 | 9.161898276 | 9.2 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 1.864010117 | 691.5477534 | 0.207464326 | 0.21 | 12.6 | 1 | 12.6 | 0.1 | 2.751320803 | 34.66664212 | 3.466664212 | 3.5 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.864010117 | 572.2511059 | 0.171675332 | 0.17 | 9.82 | 1 | 9.82 | 0.1 | 2.751320803 | 27.01797029 | 2.701797029 | 2.7 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 1.864010117 | | | | | | | 0.1 | 2.751320803 | | | |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 1.864010117 | | | | | | | 0.1 | 2.751320803 | | | |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1.864010117 | | | | | | | 0.1 | 2.751320803 | | | |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 1.864010117 | | | | | | | 0.1 | 2.751320803 | | | |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.03151318 | 2.974844187 | 0.000892453 | 0.00089 | 0.15 | 0 | 0 | 0.1 | 12.59337653 | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.03151318 | 31.35561405 | 0.009406684 | 0.0094 | 64.2 | 1 | 64.2 | 0.1 | 12.59337653 | 808.4947731 | 80.84947731 | 81 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.03151318 | 15.34691864 | 0.004604076 | 0.0046 | 0.63 | 1 | 0.63 | 0.1 | 12.59337653 | 7.933827213 | 0.793382721 | 0.79 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.03151318 | 66.17767789 | 0.019853303 | 0.02 | 30.8 | 1 | 30.8 | 0.1 | 12.59337653 | 387.8759971 | 38.78759971 | 39 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.03151318 | 5.357240591 | 0.001607172 | 0.0016 | 5.92 | 1 | 5.92 | 0.1 | 12.59337653 | 74.55278905 | 7.455278905 | 7.5 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.03151318 | 1.427547052 | 0.000428264 | 0.00043 | 1.91 | 1 | 1.91 | 0.1 | 12.59337653 | 24.05334917 | 2.405334917 | 2.4 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.03151318 | 8.792177206 | 0.002637653 | 0.0026 | 9.18 | 1 | 9.18 | 0.1 | 12.59337653 | 115.6071965 | 11.56071965 | 12 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.03151318 | 63.9717553 | 0.019191527 | 0.019 | 33.3 | 1 | 33.3 | 0.1 | 12.59337653 | 419.3594384 | 41.93594384 | 42 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.03151318 | 11.69138976 | 0.003507417 | 0.0035 | 12.6 | 1 | 12.6 | 0.1 | 12.59337653 | 158.6765443 | 15.86765443 | 16 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.03151318 | 9.674546244 | 0.002902364 | 0.0029 | 9.82 | 1 | 9.82 | 0.1 | 12.59337653 | 123.6669575 | 12.36669575 | 12 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.03151318 | | | | | | | 0.1 | 12.59337653 | | | |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.03151318 | | | | | | | 0.1 | 12.59337653 | | | |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.03151318 | | | | | | | 0.1 | 12.59337653 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.03151318 | | | | | | | 0.1 | 12.59337653 | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.090869309 | 8.578062741 | 0.002573419 | 0.0026 | 0.15 | 0 | 0 | 0.1 | 9.476238553 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.090869309 | 90.41496215 | 0.027124489 | 0.027 | 64.2 | 1 | 64.2 | 0.1 | 9.476238553 | 608.3745151 | 60.83745151 | 61 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.090869309 | 44.25335333 | 0.013276006 | 0.013 | 0.63 | 1 | 0.63 | 0.1 | 9.476238553 | 5.970030289 | 0.597003029 | 0.6 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.090869309 | 190.8255483 | 0.057247664 | 0.057 | 30.8 | 1 | 30.8 | 0.1 | 9.476238553 | 291.8681474 | 29.18681474 | 29 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.090869309 | 15.44778248 | 0.004634335 | 0.0046 | 5.92 | 1 | 5.92 | 0.1 | 9.476238553 | 56.09933224 | 5.609933224 | 5.6 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.090869309 | 4.116379684 | 0.001234914 | 0.0012 | 1.91 | 1 | 1.91 | 0.1 | 9.476238553 | 18.09961564 | 1.809961564 | 1.8 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.090869309 | 25.35253713 | 0.007605761 | 0.0076 | 9.18 | 1 | 9.18 | 0.1 | 9.476238553 | 86.99186992 | 8.699186992 | 8.7 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.090869309 | 184.4646967 | 0.055339409 | 0.055 | 33.3 | 1 | 33.3 | 0.1 | 9.476238553 | 315.5587438 | 31.55587438 | 32 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.090869309 | 33.71251353 | 0.010113754 | 0.01 | 12.6 | 1 | 12.6 | 0.1 | 9.476238553 | 119.4006058 | 11.94006058 | 12 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.090869309 | 27.89687777 | 0.008369063 | 0.0084 | 9.82 | 1 | 9.82 | 0.1 | 9.476238553 | 93.05666259 | 9.305666259 | 9.3 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.090869309 | | | | | | | 0.1 | 9.476238553 | | | |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.090869309 | | | | | | | 0.1 | 9.476238553 | | | |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.090869309 | | | | | | | 0.1 | 9.476238553 | | | |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.090869309 | | | | | | | 0.1 | 9.476238553 | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 | 12.56371677 | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 64.2 | 1 | 64.2 | 0.1 | 12.56371677 | 806.5906167 | 80.65906167 | 81 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | 12.56371677 | 7.915141566 | 0.791514157 | 0.79 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 30.8 | 1 | 30.8 | 0.1 | 12.56371677 | 386.9624765 | 38.69624765 | 39 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.92 | 1 | 5.92 | 0.1 | 12.56371677 | 74.37720328 | 7.437720328 | 7.4 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.1 | 12.56371677 | 23.99669903 | 2.399669903 | 2.4 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 9.18 | 1 | 9.18 | 0.1 | 12.56371677 | 115.33492 | 11.533492 | 12 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 33.3 | 1 | 33.3 | 0.1 | 12.56371677 | 418.3717685 | 41.83717685 | 42 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 12.6 | 1 | 12.6 | 0.1 | 12.56371677 | 158.3028313 | 15.83028313 | 16 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 9.82 | 1 | 9.82 | 0.1 | 12.56371677 | 123.3756987 | 12.33756987 | 12 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | 12.56371677 | | | |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | 12.56371677 | | | |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | 12.56371677 | | | |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | 12.56371677 | | | |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.039575092 | 3.735888678 | 0.001120767 | 0.0011 | 0.15 | 0 | 0 | 0.1 | 0.83878342 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.039575092 | 39.37721647 | 0.011813165 | 0.012 | 64.2 | 1 | 64.2 | 0.1 | 0.83878342 | 53.84989557 | 5.384989557 | 5.4 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.039575092 | 19.27306977 | 0.005781921 | 0.0058 | 0.63 | 1 | 0.63 | 0.1 | 0.83878342 | 0.528433555 | 0.052843355 | 0.053 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.039575092 | 83.10769305 | 0.024932308 | 0.025 | 30.8 | 1 | 30.8 | 0.1 | 0.83878342 | 25.83452934 | 2.583452934 | 2.6 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.039575092 | 6.727765628 | 0.00201833 | 0.002 | 5.92 | 1 | 5.92 | 0.1 | 0.83878342 | 4.965597847 | 0.496559785 | 0.5 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.039575092 | 1.792751664 | 0.000537825 | 0.00054 | 1.91 | 1 | 1.91 | 0.1 | 0.83878342 | 1.602076332 | 0.160207633 | 0.16 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.039575092 | 11.04145065 | 0.003312435 | 0.0033 | 9.18 | 1 | 9.18 | 0.1 | 0.83878342 | 7.700031797 | 0.77000318 | 0.77 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.039575092 | 80.33743662 | 0.024101231 | 0.024 | 33.3 | 1 | 33.3 | 0.1 | 0.83878342 | 27.93148789 | 2.793148789 | 2.8 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.039575092 | 14.68235911 | 0.004404708 | 0.0044 | 12.6 | 1 | 12.6 | 0.1 | 0.83878342 | 10.56867109 | 1.056867109 | 1.1 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.039575092 | 12.14955322 | 0.003644866 | 0.0036 | 9.82 | 1 | 9.82 | 0.1 | 0.83878342 | 8.236853185 | 0.823685319 | 0.82 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.039575092 | | | | | | | 0.1 | 0.83878342 | | | |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.039575092 | | | | | | | 0.1 | 0.83878342 | | | |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.039575092 | | | | | | | 0.1 | 0.83878342 | | | |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.039575092 | | | | | | | 0.1 | 0.83878342 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.055022704 | 5.194143268 | 0.001558243 | 0.0016 | 0.15 | 0 | 0 | 0.1 | 0.982800983 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.055022704 | 54.74759058 | 0.016424277 | 0.016 | 64.2 | 1 | 64.2 | 0.1 | 0.982800983 | 63.0958231 | 6.30958231 | 6.3 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.055022704 | 26.7960569 | 0.008038817 | 0.008 | 0.63 | 1 | 0.63 | 0.1 | 0.982800983 | 0.619164619 | 0.061916462 | 0.062 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.055022704 | 115.5476786 | 0.034664304 | 0.035 | 30.8 | 1 | 30.8 | 0.1 | 0.982800983 | 30.27027027 | 3.027027027 | 3 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.055022704 | 9.353859698 | 0.002806158 | 0.0028 | 5.92 | 1 | 5.92 | 0.1 | 0.982800983 | 5.818181818 | 0.581818182 | 0.58 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.055022704 | 2.492528496 | 0.000747759 | 0.00075 | 1.91 | 1 | 1.91 | 0.1 | 0.982800983 | 1.877149877 | 0.187714988 | 0.19 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.055022704 | 15.35133445 | 0.0046054 | 0.0046 | 9.18 | 1 | 9.18 | 0.1 | 0.982800983 | 9.022113022 | 0.902211302 | 0.9 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.055022704 | 111.6960893 | 0.033508827 | 0.034 | 33.3 | 1 | 33.3 | 0.1 | 0.982800983 | 32.72727273 | 3.272727273 | 3.3 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.055022704 | 20.41342322 | 0.006124027 | 0.0061 | 12.6 | 1 | 12.6 | 0.1 | 0.982800983 | 12.38329238 | 1.238329238 | 1.2 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.055022704 | 16.89197016 | 0.005067591 | 0.0051 | 9.82 | 1 | 9.82 | 0.1 | 0.982800983 | 9.651105651 | 0.965110565 | 0.97 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.055022704 | | | | | | | 0.1 | 0.982800983 | | | |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.055022704 | | | | | | | 0.1 | 0.982800983 | | | |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.055022704 | | | | | | | 0.1 | 0.982800983 | | | |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.055022704 | | | | | | | 0.1 | 0.982800983 | | | |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.47142285 | 44.50231707 | 0.013350695 | 0.013 | 0.15 | 0 | 0 | 0.1 | 55.03211386 | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.47142285 | 469.065736 | 0.140719721 | 0.14 | 64.2 | 1 | 64.2 | 0.1 | 55.03211386 | 3533.06171 | 353.306171 | 350 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.47142285 | 229.5829281 | 0.068874878 | 0.069 | 0.63 | 1 | 0.63 | 0.1 | 55.03211386 | 34.67023173 | 3.467023173 | 3.5 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.47142285 | 989.9879856 | 0.296996396 | 0.3 | 30.8 | 1 | 30.8 | 0.1 | 55.03211386 | 1694.989107 | 169.4989107 | 170 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.47142285 | 80.14188455 | 0.024042565 | 0.024 | 5.92 | 1 | 5.92 | 0.1 | 55.03211386 | 325.790114 | 32.5790114 | 33 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.47142285 | 21.35545512 | 0.006406637 | 0.0064 | 1.91 | 1 | 1.91 | 0.1 | 55.03211386 | 105.1113375 | 10.51113375 | 11 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.47142285 | 131.5269752 | 0.039458093 | 0.039 | 9.18 | 1 | 9.18 | 0.1 | 55.03211386 | 505.1948052 | 50.51948052 | 51 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.47142285 | 956.9883861 | 0.287096516 | 0.29 | 33.3 | 1 | 33.3 | 0.1 | 55.03211386 | 1832.569391 | 183.2569391 | 180 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.47142285 | 174.8978775 | 0.052469363 | 0.052 | 12.6 | 1 | 12.6 | 0.1 | 55.03211386 | 693.4046346 | 69.34046346 | 69 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.47142285 | 144.726815 | 0.043418045 | 0.043 | 9.82 | 1 | 9.82 | 0.1 | 55.03211386 | 540.4153581 | 54.04153581 | 54 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.47142285 | | | | | | | 0.1 | 55.03211386 | | | |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.47142285 | | | | | | | 0.1 | 55.03211386 | | | |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.47142285 | | | | | | | 0.1 | 55.03211386 | | | |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.47142285 | | | | | | | 0.1 | 55.03211386 | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.081658966 | 7.708606425 | 0.002312582 | 0.0023 | 0.15 | 0 | 0 | 0.1 | 10.24849883 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.081658966 | 81.25067154 | 0.024375201 | 0.024 | 64.2 | 1 | 64.2 | 0.1 | 10.24849883 | 657.9536248 | 65.79536248 | 66 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.081658966 | 39.76791662 | 0.011930375 | 0.012 | 0.63 | 1 | 0.63 | 0.1 | 10.24849883 | 6.456554262 | 0.645655426 | 0.65 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.081658966 | 171.4838294 | 0.051445149 | 0.051 | 30.8 | 1 | 30.8 | 0.1 | 10.24849883 | 315.6537639 | 31.56537639 | 32 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.081658966 | 13.88202428 | 0.004164607 | 0.0042 | 5.92 | 1 | 5.92 | 0.1 | 10.24849883 | 60.67111306 | 6.067111306 | 6.1 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.081658966 | 3.699151177 | 0.001109745 | 0.0011 | 1.91 | 1 | 1.91 | 0.1 | 10.24849883 | 19.57463276 | 1.957463276 | 2 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.081658966 | 22.78285162 | 0.006834855 | 0.0068 | 9.18 | 1 | 9.18 | 0.1 | 10.24849883 | 94.08121924 | 9.408121924 | 9.4 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.081658966 | 165.7677017 | 0.049730311 | 0.05 | 33.3 | 1 | 33.3 | 0.1 | 10.24849883 | 341.275011 | 34.1275011 | 34 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.081658966 | 30.29547652 | 0.009088643 | 0.0091 | 12.6 | 1 | 12.6 | 0.1 | 10.24849883 | 129.1310852 | 12.91310852 | 13 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.081658966 | 25.06930268 | 0.007520791 | 0.0075 | 9.82 | 1 | 9.82 | 0.1 | 10.24849883 | 100.6402585 | 10.06402585 | 10 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.081658966 | | | | | | | 0.1 | 10.24849883 | | | |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.081658966 | | | | | | | 0.1 | 10.24849883 | | | |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.081658966 | | | | | | | 0.1 | 10.24849883 | | | |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.081658966 | | | | | | | 0.1 | 10.24849883 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 45.7 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 17.3 | 1 | 17.3 | 0.3 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 2.7 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 5.2 | 1 | 5.2 | 0.3 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 3.4 | 1 | 3.4 | 0.03 | NA | 0 | 0 | 0 | 6.6 | 1 | 6.6 | 0.3 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 12.5 | 1 | 12.5 | 0.03 | NA | 0 | 0 | 0 | 24.4 | 1 | 24.4 | 0.3 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 7.33 | 1 | 7.33 | 0.03 | NA | 0 | 0 | 0 | 16.4 | 1 | 16.4 | 0.3 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 6.66 | 1 | 6.66 | 0.03 | NA | 0 | 0 | 0 | 12.2 | 1 | 12.2 | 0.3 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 5.95 | 1 | 5.95 | 0.03 | NA | 0 | 0 | 0 | 13.9 | 1 | 13.9 | 0.3 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.11 | 1 | 1.11 | 0.03 | NA | 0 | 0 | 0 | 1.63 | 1 | 1.63 | 0.3 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 11.3 | 1 | 11.3 | 0.03 | NA | 0 | 0 | 0 | 21.2 | 1 | 21.2 | 0.3 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 8.84 | 1 | 8.84 | 0.03 | NA | 0 | 0 | 0 | 15.5 | 1 | 15.5 | 0.3 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 6.01 | 1 | 6.01 | 0.03 | NA | 0 | 0 | 0 | 9.81 | 1 | 9.81 | 0.3 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 6.86 | 1 | 6.86 | 0.03 | NA | 0 | 0 | 0 | 10.6 | 1 | 10.6 | 0.3 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7.7 | 1 | 7.7 | 0.03 | NA | 0 | 0 | 0 | 14.6 | 1 | 14.6 | 0.3 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7.87 | 1 | 7.87 | 0.03 | NA | 0 | 0 | 0 | 15.5 | 1 | 15.5 | 0.3 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 6.4 | 1 | 6.4 | 0.03 | NA | 0 | 0 | 0 | 9.52 | 1 | 9.52 | 0.3 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 2.8 | 1 | 2.8 | 0.03 | NA | 0 | 0 | 0 | 6.92 | 1 | 6.92 | 0.3 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.47 | 1 | 2.47 | 0.03 | NA | 0 | 0 | 0 | 4.09 | 1 | 4.09 | 0.3 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.42 | 1 | 2.42 | 0.03 | NA | 0 | 0 | 0 | 4.02 | 1 | 4.02 | 0.3 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 13.2 | 1 | 13.2 | 0.03 | NA | 0 | 0 | 0 | 26.8 | 1 | 26.8 | 0.3 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 5.66 | 1 | 5.66 | 0.03 | NA | 0 | 0 | 0 | 7.72 | 1 | 7.72 | 0.3 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.25 | 1 | 3.25 | 0.03 | NA | 0 | 0 | 0 | 5.73 | 1 | 5.73 | 0.3 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 5.83 | 1 | 5.83 | 0.03 | NA | 0 | 0 | 0 | 11 | 1 | 11 | 0.3 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 2.73 | 1 | 2.73 | 0.03 | NA | 0 | 0 | 0 | 5.72 | 1 | 5.72 | 0.3 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 5.36 | 1 | 5.36 | 0.03 | NA | 0 | 0 | 0 | 10.2 | 1 | 10.2 | 0.3 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 13.7 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 28.4 | 1 | 28.4 | 0.3 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 7.72 | 1 | 7.72 | 0.03 | NA | 0 | 0 | 0 | 12.7 | 1 | 12.7 | 0.3 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 7.61 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 17 | 1 | 17 | 0.3 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 11.5 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 21.4 | 1 | 21.4 | 0.3 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 4.66 | 1 | 4.66 | 0.03 | NA | 0 | 0 | 0 | 6.37 | 1 | 6.37 | 0.3 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 5.38 | 1 | 5.38 | 0.03 | NA | 0 | 0 | 0 | 11.4 | 1 | 11.4 | 0.3 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 6.34 | 1 | 6.34 | 0.03 | NA | 0 | 0 | 0 | 12.7 | 1 | 12.7 | 0.3 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 5.58 | 1 | 5.58 | 0.03 | NA | 0 | 0 | 0 | 7.85 | 1 | 7.85 | 0.3 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 9.61 | 1 | 9.61 | 0.03 | NA | 0 | 0 | 0 | 16.7 | 1 | 16.7 | 0.3 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 5.15 | 1 | 5.15 | 0.03 | NA | 0 | 0 | 0 | 7.95 | 1 | 7.95 | 0.3 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 11.3 | 1 | 11.3 | 0.03 | NA | 0 | 0 | 0 | 18.4 | 1 | 18.4 | 0.3 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 12.22 | 1 | 12.22 | 0.03 | NA | 0 | 0 | 0 | 19 | 1 | 19 | 0.3 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9.72 | 1 | 9.72 | 0.03 | NA | 0 | 0 | 0 | 16.8 | 1 | 16.8 | 0.3 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 6.16 | 1 | 6.16 | 0.03 | NA | 0 | 0 | 0 | 11.3 | 1 | 11.3 | 0.3 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 13 | 1 | 13 | 0.03 | NA | 0 | 0 | 0 | 23.8 | 1 | 23.8 | 0.3 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 15.2 | 1 | 15.2 | 0.03 | NA | 0 | 0 | 0 | 25.8 | 1 | 25.8 | 0.3 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 15.3 | 1 | 15.3 | 0.03 | NA | 0 | 0 | 0 | 28.6 | 1 | 28.6 | 0.3 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 1.22 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 4.08 | 1 | 4.08 | 0.3 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 17.6 | 1 | 17.6 | 0.03 | NA | 0 | 0 | 0 | 35 | 1 | 35 | 0.3 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 13.8 | 1 | 13.8 | 0.03 | NA | 0 | 0 | 0 | 19.4 | 1 | 19.4 | 0.3 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 5.75 | 1 | 5.75 | 0.03 | NA | 0 | 0 | 0 | 5.66 | 1 | 5.66 | 0.3 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 5.58 | 1 | 5.58 | 0.03 | NA | 0 | 0 | 0 | 7.93 | 1 | 7.93 | 0.3 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 7.69 | 1 | 7.69 | 0.03 | NA | 0 | 0 | 0 | 30.7 | 1 | 30.7 | 0.3 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 14.6 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 19.8 | 1 | 19.8 | 0.3 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.815 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 10.8 | 1 | 10.8 | 0.3 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 2.4 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 3.61 | 0 | 0 | 0.3 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 1 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 10.8 | 1 | 10.8 | 0.3 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 11.4 | 1 | 11.4 | 0.03 | NA | 0 | 0 | 0 | 73.7 | 1 | 73.7 | 0.3 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 1.3 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 7.57 | 1 | 7.57 | 0.3 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.44 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 9.89 | 1 | 9.89 | 0.3 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.864 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 5.32 | 1 | 5.32 | 0.3 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.866 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 11.5 | 1 | 11.5 | 0.3 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 9.04 | 1 | 9.04 | 0.03 | NA | 0 | 0 | 0 | 18.9 | 1 | 18.9 | 0.3 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3.84 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 6.43 | 1 | 6.43 | 0.3 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 10.1 | 1 | 10.1 | 0.03 | NA | 0 | 0 | 0 | 15 | 1 | 15 | 0.3 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16.9 | 1 | 16.9 | 0.03 | NA | 0 | 0 | 0 | 32.3 | 1 | 32.3 | 0.3 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 8.82 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 19.5 | 1 | 19.5 | 0.3 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 7.59 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 0.3 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 1140 | 1 | 1140 | 0.03 | NA | 0 | 0 | 0 | 23.7 | 1 | 23.7 | 0.3 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4.38 | 1 | 4.38 | 0.03 | NA | 0 | 0 | 0 | 6.26 | 1 | 6.26 | 0.3 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4.56 | 1 | 4.56 | 0.03 | NA | 0 | 0 | 0 | 9.23 | 1 | 9.23 | 0.3 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 780 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 15.3 | 0 | 0 | 0.3 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 2.22 | 1 | 2.22 | 0.03 | NA | 0 | 0 | 0 | 4.65 | 1 | 4.65 | 0.3 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.4 | 1 | 0.4 | 0.03 | NA | 0 | 0 | 0 | 0.66 | 1 | 0.66 | 0.3 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1.69 | 1 | 1.69 | 0.03 | NA | 0 | 0 | 0 | 2.51 | 1 | 2.51 | 0.3 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.13 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 0.14 | 0 | 0 | 0.3 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 4.32 | 1 | 4.32 | 0.03 | NA | 0 | 0 | 0 | 6.76 | 1 | 6.76 | 0.3 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 7.71 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 1.8 | 1 | 1.8 | 0.3 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 73.6 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 4.73 | 0 | 0 | 0.3 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 101 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 9.3 | 1 | 9.3 | 0.3 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 3.55 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.3 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1.1 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 2.6 | 1 | 2.6 | 0.3 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1.2 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 2.3 | 1 | 2.3 | 0.3 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 3.4 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 3.5 | 0 | 0 | 0.3 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 11.5 | 1 | 11.5 | 0.03 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 0.3 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.47 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 0.48 | 0 | 0 | 0.3 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.5 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 0.3 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1.7 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 1.7 | 1 | 1.7 | 0.3 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 2.28 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 1.3 | 1 | 1.3 | 0.3 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 17.65 | 1 | 17.65 | 0.03 | NA | 0 | 0 | 0 | 26.75 | 1 | 26.75 | 0.3 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 1.1 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 8 | 1 | 8 | 0.3 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.57 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 1.76 | 1 | 1.76 | 0.3 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 2.53 | 1 | 2.53 | 0.03 | NA | 0 | 0 | 0 | 1.98 | 1 | 1.98 | 0.3 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 322 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 4.7 | 1 | 4.7 | 0.3 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 708 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 3.23 | 0 | 0 | 0.3 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 27.9 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 18.2 | 1 | 18.2 | 0.3 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 158 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 4.6 | 1 | 4.6 | 0.3 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 126 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 4 | 1 | 4 | 0.3 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 58.8 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 0.455 | 0 | 0 | 0.3 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 23.6 | 1 | 23.6 | 0.03 | NA | 0 | 0 | 0 | 37.1 | 1 | 37.1 | 0.3 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.83 | 1 | 1.83 | 0.03 | NA | 0 | 0 | 0 | 3.17 | 1 | 3.17 | 0.3 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.65 | 1 | 2.65 | 0.03 | NA | 0 | 0 | 0 | 3.85 | 1 | 3.85 | 0.3 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 4.77 | 1 | 4.77 | 0.03 | NA | 0 | 0 | 0 | 7.26 | 1 | 7.26 | 0.3 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 6.8 | 1 | 6.8 | 0.03 | NA | 0 | 0 | 0 | 16.1 | 1 | 16.1 | 0.3 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 4.12 | 1 | 4.12 | 0.03 | NA | 0 | 0 | 0 | 8.47 | 1 | 8.47 | 0.3 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 6.25 | 1 | 6.25 | 0.03 | NA | 0 | 0 | 0 | 10.4 | 1 | 10.4 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 45.7 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 17.3 | 1 | 17.3 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 2.7 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 5.2 | 1 | 5.2 | 0.3 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 3.4 | 1 | 3.4 | 0.03 | NA | 0 | 0 | 0 | 6.6 | 1 | 6.6 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 12.5 | 1 | 12.5 | 0.03 | NA | 0 | 0 | 0 | 24.4 | 1 | 24.4 | 0.3 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 7.33 | 1 | 7.33 | 0.03 | NA | 0 | 0 | 0 | 16.4 | 1 | 16.4 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 6.66 | 1 | 6.66 | 0.03 | NA | 0 | 0 | 0 | 12.2 | 1 | 12.2 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 5.95 | 1 | 5.95 | 0.03 | NA | 0 | 0 | 0 | 13.9 | 1 | 13.9 | 0.3 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.11 | 1 | 1.11 | 0.03 | NA | 0 | 0 | 0 | 1.63 | 1 | 1.63 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 11.3 | 1 | 11.3 | 0.03 | NA | 0 | 0 | 0 | 21.2 | 1 | 21.2 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 8.84 | 1 | 8.84 | 0.03 | NA | 0 | 0 | 0 | 15.5 | 1 | 15.5 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 6.01 | 1 | 6.01 | 0.03 | NA | 0 | 0 | 0 | 9.81 | 1 | 9.81 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 6.86 | 1 | 6.86 | 0.03 | NA | 0 | 0 | 0 | 10.6 | 1 | 10.6 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7.7 | 1 | 7.7 | 0.03 | NA | 0 | 0 | 0 | 14.6 | 1 | 14.6 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7.87 | 1 | 7.87 | 0.03 | NA | 0 | 0 | 0 | 15.5 | 1 | 15.5 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 6.4 | 1 | 6.4 | 0.03 | NA | 0 | 0 | 0 | 9.52 | 1 | 9.52 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 2.8 | 1 | 2.8 | 0.03 | NA | 0 | 0 | 0 | 6.92 | 1 | 6.92 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.47 | 1 | 2.47 | 0.03 | NA | 0 | 0 | 0 | 4.09 | 1 | 4.09 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.42 | 1 | 2.42 | 0.03 | NA | 0 | 0 | 0 | 4.02 | 1 | 4.02 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 13.2 | 1 | 13.2 | 0.03 | NA | 0 | 0 | 0 | 26.8 | 1 | 26.8 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 5.66 | 1 | 5.66 | 0.03 | NA | 0 | 0 | 0 | 7.72 | 1 | 7.72 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.25 | 1 | 3.25 | 0.03 | NA | 0 | 0 | 0 | 5.73 | 1 | 5.73 | 0.3 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 5.83 | 1 | 5.83 | 0.03 | NA | 0 | 0 | 0 | 11 | 1 | 11 | 0.3 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 2.73 | 1 | 2.73 | 0.03 | NA | 0 | 0 | 0 | 5.72 | 1 | 5.72 | 0.3 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 5.36 | 1 | 5.36 | 0.03 | NA | 0 | 0 | 0 | 10.2 | 1 | 10.2 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 13.7 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 28.4 | 1 | 28.4 | 0.3 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 7.72 | 1 | 7.72 | 0.03 | NA | 0 | 0 | 0 | 12.7 | 1 | 12.7 | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 7.61 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 17 | 1 | 17 | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 11.5 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 21.4 | 1 | 21.4 | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 4.66 | 1 | 4.66 | 0.03 | NA | 0 | 0 | 0 | 6.37 | 1 | 6.37 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 5.38 | 1 | 5.38 | 0.03 | NA | 0 | 0 | 0 | 11.4 | 1 | 11.4 | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 6.34 | 1 | 6.34 | 0.03 | NA | 0 | 0 | 0 | 12.7 | 1 | 12.7 | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 5.58 | 1 | 5.58 | 0.03 | NA | 0 | 0 | 0 | 7.85 | 1 | 7.85 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 9.61 | 1 | 9.61 | 0.03 | NA | 0 | 0 | 0 | 16.7 | 1 | 16.7 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 5.15 | 1 | 5.15 | 0.03 | NA | 0 | 0 | 0 | 7.95 | 1 | 7.95 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 11.3 | 1 | 11.3 | 0.03 | NA | 0 | 0 | 0 | 18.4 | 1 | 18.4 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 12.22 | 1 | 12.22 | 0.03 | NA | 0 | 0 | 0 | 19 | 1 | 19 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9.72 | 1 | 9.72 | 0.03 | NA | 0 | 0 | 0 | 16.8 | 1 | 16.8 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 6.16 | 1 | 6.16 | 0.03 | NA | 0 | 0 | 0 | 11.3 | 1 | 11.3 | 0.3 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 13 | 1 | 13 | 0.03 | NA | 0 | 0 | 0 | 23.8 | 1 | 23.8 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 15.2 | 1 | 15.2 | 0.03 | NA | 0 | 0 | 0 | 25.8 | 1 | 25.8 | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 15.3 | 1 | 15.3 | 0.03 | NA | 0 | 0 | 0 | 28.6 | 1 | 28.6 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 1.22 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 4.08 | 1 | 4.08 | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 17.6 | 1 | 17.6 | 0.03 | NA | 0 | 0 | 0 | 35 | 1 | 35 | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 13.8 | 1 | 13.8 | 0.03 | NA | 0 | 0 | 0 | 19.4 | 1 | 19.4 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 5.75 | 1 | 5.75 | 0.03 | NA | 0 | 0 | 0 | 5.66 | 1 | 5.66 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 5.58 | 1 | 5.58 | 0.03 | NA | 0 | 0 | 0 | 7.93 | 1 | 7.93 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 7.69 | 1 | 7.69 | 0.03 | NA | 0 | 0 | 0 | 30.7 | 1 | 30.7 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 14.6 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 19.8 | 1 | 19.8 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.815 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 10.8 | 1 | 10.8 | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 2.4 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 3.61 | 0 | 0 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 1 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 10.8 | 1 | 10.8 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 11.4 | 1 | 11.4 | 0.03 | NA | 0 | 0 | 0 | 73.7 | 1 | 73.7 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 1.3 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 7.57 | 1 | 7.57 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.44 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 9.89 | 1 | 9.89 | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.864 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 5.32 | 1 | 5.32 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.866 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 11.5 | 1 | 11.5 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 9.04 | 1 | 9.04 | 0.03 | NA | 0 | 0 | 0 | 18.9 | 1 | 18.9 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3.84 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 6.43 | 1 | 6.43 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 10.1 | 1 | 10.1 | 0.03 | NA | 0 | 0 | 0 | 15 | 1 | 15 | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16.9 | 1 | 16.9 | 0.03 | NA | 0 | 0 | 0 | 32.3 | 1 | 32.3 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 8.82 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 19.5 | 1 | 19.5 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 7.59 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 1140 | 1 | 1140 | 0.03 | NA | 0 | 0 | 0 | 23.7 | 1 | 23.7 | 0.3 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4.38 | 1 | 4.38 | 0.03 | NA | 0 | 0 | 0 | 6.26 | 1 | 6.26 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4.56 | 1 | 4.56 | 0.03 | NA | 0 | 0 | 0 | 9.23 | 1 | 9.23 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 780 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 15.3 | 0 | 0 | 0.3 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 2.22 | 1 | 2.22 | 0.03 | NA | 0 | 0 | 0 | 4.65 | 1 | 4.65 | 0.3 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.4 | 1 | 0.4 | 0.03 | NA | 0 | 0 | 0 | 0.66 | 1 | 0.66 | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1.69 | 1 | 1.69 | 0.03 | NA | 0 | 0 | 0 | 2.51 | 1 | 2.51 | 0.3 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.13 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 0.14 | 0 | 0 | 0.3 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 4.32 | 1 | 4.32 | 0.03 | NA | 0 | 0 | 0 | 6.76 | 1 | 6.76 | 0.3 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 7.71 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 1.8 | 1 | 1.8 | 0.3 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 73.6 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 4.73 | 0 | 0 | 0.3 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 101 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 9.3 | 1 | 9.3 | 0.3 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 3.55 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.3 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1.1 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 2.6 | 1 | 2.6 | 0.3 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1.2 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 2.3 | 1 | 2.3 | 0.3 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 3.4 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 3.5 | 0 | 0 | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 11.5 | 1 | 11.5 | 0.03 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 0.3 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.47 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 0.48 | 0 | 0 | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.5 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 0.3 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1.7 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 1.7 | 1 | 1.7 | 0.3 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 2.28 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 1.3 | 1 | 1.3 | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 17.65 | 1 | 17.65 | 0.03 | NA | 0 | 0 | 0 | 26.75 | 1 | 26.75 | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 1.1 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 8 | 1 | 8 | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.57 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 1.76 | 1 | 1.76 | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 2.53 | 1 | 2.53 | 0.03 | NA | 0 | 0 | 0 | 1.98 | 1 | 1.98 | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 322 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 4.7 | 1 | 4.7 | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 708 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 3.23 | 0 | 0 | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 27.9 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 18.2 | 1 | 18.2 | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 158 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 4.6 | 1 | 4.6 | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 126 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 4 | 1 | 4 | 0.3 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 58.8 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 0.455 | 0 | 0 | 0.3 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 23.6 | 1 | 23.6 | 0.03 | NA | 0 | 0 | 0 | 37.1 | 1 | 37.1 | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.83 | 1 | 1.83 | 0.03 | NA | 0 | 0 | 0 | 3.17 | 1 | 3.17 | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.65 | 1 | 2.65 | 0.03 | NA | 0 | 0 | 0 | 3.85 | 1 | 3.85 | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 4.77 | 1 | 4.77 | 0.03 | NA | 0 | 0 | 0 | 7.26 | 1 | 7.26 | 0.3 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 6.8 | 1 | 6.8 | 0.03 | NA | 0 | 0 | 0 | 16.1 | 1 | 16.1 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 4.12 | 1 | 4.12 | 0.03 | NA | 0 | 0 | 0 | 8.47 | 1 | 8.47 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 6.25 | 1 | 6.25 | 0.03 | NA | 0 | 0 | 0 | 10.4 | 1 | 10.4 | 0.3 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 45.7 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 17.3 | 1 | 17.3 | 0.3 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 2.7 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 5.2 | 1 | 5.2 | 0.3 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 3.4 | 1 | 3.4 | 0.03 | 0.076574436 | 0.260353083 | 0.007810592 | 0.0078 | 6.6 | 1 | 6.6 | 0.3 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 12.5 | 1 | 12.5 | 0.03 | 0.076574436 | 0.957180451 | 0.028715414 | 0.029 | 24.4 | 1 | 24.4 | 0.3 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 7.33 | 1 | 7.33 | 0.03 | 0.076574436 | 0.561290617 | 0.016838718 | 0.017 | 16.4 | 1 | 16.4 | 0.3 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 6.66 | 1 | 6.66 | 0.03 | 0.076574436 | 0.509985744 | 0.015299572 | 0.015 | 12.2 | 1 | 12.2 | 0.3 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 5.95 | 1 | 5.95 | 0.03 | 0.076574436 | 0.455617895 | 0.013668537 | 0.014 | 13.9 | 1 | 13.9 | 0.3 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.11 | 1 | 1.11 | 0.03 | 0.076574436 | 0.084997624 | 0.002549929 | 0.0025 | 1.63 | 1 | 1.63 | 0.3 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 11.3 | 1 | 11.3 | 0.03 | 0.076574436 | 0.865291128 | 0.025958734 | 0.026 | 21.2 | 1 | 21.2 | 0.3 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 8.84 | 1 | 8.84 | 0.03 | 0.076574436 | 0.676918015 | 0.02030754 | 0.02 | 15.5 | 1 | 15.5 | 0.3 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 6.01 | 1 | 6.01 | 0.03 | 0.076574436 | 0.460212361 | 0.013806371 | 0.014 | 9.81 | 1 | 9.81 | 0.3 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 6.86 | 1 | 6.86 | 0.03 | 0.076574436 | 0.525300632 | 0.015759019 | 0.016 | 10.6 | 1 | 10.6 | 0.3 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7.7 | 1 | 7.7 | 0.03 | 0.076574436 | 0.589623158 | 0.017688695 | 0.018 | 14.6 | 1 | 14.6 | 0.3 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7.87 | 1 | 7.87 | 0.03 | 0.076574436 | 0.602640812 | 0.018079224 | 0.018 | 15.5 | 1 | 15.5 | 0.3 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.03 | 0.076574436 | | | | | | | 0.3 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 6.4 | 1 | 6.4 | 0.03 | 0.076574436 | 0.490076391 | 0.014702292 | 0.015 | 9.52 | 1 | 9.52 | 0.3 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 2.8 | 1 | 2.8 | 0.03 | 0.076574436 | 0.214408421 | 0.006432253 | 0.0064 | 6.92 | 1 | 6.92 | 0.3 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.47 | 1 | 2.47 | 0.03 | 0.076574436 | 0.189138857 | 0.005674166 | 0.0057 | 4.09 | 1 | 4.09 | 0.3 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.42 | 1 | 2.42 | 0.03 | 0.076574436 | 0.185310135 | 0.005559304 | 0.0056 | 4.02 | 1 | 4.02 | 0.3 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 13.2 | 1 | 13.2 | 0.03 | 0.076574436 | 1.010782556 | 0.030323477 | 0.03 | 26.8 | 1 | 26.8 | 0.3 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 5.66 | 1 | 5.66 | 0.03 | 0.076574436 | 0.433411308 | 0.013002339 | 0.013 | 7.72 | 1 | 7.72 | 0.3 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.25 | 1 | 3.25 | 0.03 | 0.076574436 | 0.248866917 | 0.007466008 | 0.0075 | 5.73 | 1 | 5.73 | 0.3 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 5.83 | 1 | 5.83 | 0.03 | 0.076574436 | 0.446428962 | 0.013392869 | 0.013 | 11 | 1 | 11 | 0.3 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 2.73 | 1 | 2.73 | 0.03 | 0.076574436 | 0.209048211 | 0.006271446 | 0.0063 | 5.72 | 1 | 5.72 | 0.3 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 5.36 | 1 | 5.36 | 0.03 | 0.076574436 | 0.410438977 | 0.012313169 | 0.012 | 10.2 | 1 | 10.2 | 0.3 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 13.7 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 28.4 | 1 | 28.4 | 0.3 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 7.72 | 1 | 7.72 | 0.03 | 0.076574436 | 0.591154647 | 0.017734639 | 0.018 | 12.7 | 1 | 12.7 | 0.3 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 7.61 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 17 | 1 | 17 | 0.3 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 11.5 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 21.4 | 1 | 21.4 | 0.3 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 4.66 | 1 | 4.66 | 0.03 | 0.076574436 | 0.356836872 | 0.010705106 | 0.011 | 6.37 | 1 | 6.37 | 0.3 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 5.38 | 1 | 5.38 | 0.03 | 0.076574436 | 0.411970466 | 0.012359114 | 0.012 | 11.4 | 1 | 11.4 | 0.3 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 6.34 | 1 | 6.34 | 0.03 | 0.076574436 | 0.485481925 | 0.014564458 | 0.015 | 12.7 | 1 | 12.7 | 0.3 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 5.58 | 1 | 5.58 | 0.03 | 0.076574436 | 0.427285353 | 0.012818561 | 0.013 | 7.85 | 1 | 7.85 | 0.3 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 9.61 | 1 | 9.61 | 0.03 | 0.076574436 | 0.735880331 | 0.02207641 | 0.022 | 16.7 | 1 | 16.7 | 0.3 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 5.15 | 1 | 5.15 | 0.03 | 0.076574436 | 0.394358346 | 0.01183075 | 0.012 | 7.95 | 1 | 7.95 | 0.3 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 11.3 | 1 | 11.3 | 0.03 | 0.076574436 | 0.865291128 | 0.025958734 | 0.026 | 18.4 | 1 | 18.4 | 0.3 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 12.22 | 1 | 12.22 | 0.03 | 0.076574436 | 0.935739609 | 0.028072188 | 0.028 | 19 | 1 | 19 | 0.3 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.03 | 0.076574436 | | | | | | | 0.3 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9.72 | 1 | 9.72 | 0.03 | 0.076574436 | 0.744303519 | 0.022329106 | 0.022 | 16.8 | 1 | 16.8 | 0.3 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 6.16 | 1 | 6.16 | 0.03 | 0.076574436 | 0.471698526 | 0.014150956 | 0.014 | 11.3 | 1 | 11.3 | 0.3 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 13 | 1 | 13 | 0.03 | 0.076574436 | 0.995467669 | 0.02986403 | 0.03 | 23.8 | 1 | 23.8 | 0.3 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 15.2 | 1 | 15.2 | 0.03 | 0.076574436 | 1.163931429 | 0.034917943 | 0.035 | 25.8 | 1 | 25.8 | 0.3 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 15.3 | 1 | 15.3 | 0.03 | 0.076574436 | 1.171588872 | 0.035147666 | 0.035 | 28.6 | 1 | 28.6 | 0.3 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 1.22 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 4.08 | 1 | 4.08 | 0.3 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 17.6 | 1 | 17.6 | 0.03 | 0.076574436 | 1.347710075 | 0.040431302 | 0.04 | 35 | 1 | 35 | 0.3 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 13.8 | 1 | 13.8 | 0.03 | 0.076574436 | 1.056727218 | 0.031701817 | 0.032 | 19.4 | 1 | 19.4 | 0.3 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 5.75 | 1 | 5.75 | 0.03 | 0.076574436 | 0.440303008 | 0.01320909 | 0.013 | 5.66 | 1 | 5.66 | 0.3 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 5.58 | 1 | 5.58 | 0.03 | 0.076574436 | 0.427285353 | 0.012818561 | 0.013 | 7.93 | 1 | 7.93 | 0.3 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 7.69 | 1 | 7.69 | 0.03 | 0.076574436 | 0.588857414 | 0.017665722 | 0.018 | 30.7 | 1 | 30.7 | 0.3 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 14.6 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 19.8 | 1 | 19.8 | 0.3 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.815 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 10.8 | 1 | 10.8 | 0.3 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 2.4 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 3.61 | 0 | 0 | 0.3 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 1 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 10.8 | 1 | 10.8 | 0.3 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 11.4 | 1 | 11.4 | 0.03 | 0.076574436 | 0.872948571 | 0.026188457 | 0.026 | 73.7 | 1 | 73.7 | 0.3 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.03 | 0.076574436 | | | | | | | 0.3 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 1.3 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 7.57 | 1 | 7.57 | 0.3 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.44 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 9.89 | 1 | 9.89 | 0.3 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.864 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 5.32 | 1 | 5.32 | 0.3 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.866 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 11.5 | 1 | 11.5 | 0.3 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 9.04 | 1 | 9.04 | 0.03 | 0.076574436 | 0.692232902 | 0.020766987 | 0.021 | 18.9 | 1 | 18.9 | 0.3 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3.84 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 6.43 | 1 | 6.43 | 0.3 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 10.1 | 1 | 10.1 | 0.03 | 0.076574436 | 0.773401805 | 0.023202054 | 0.023 | 15 | 1 | 15 | 0.3 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16.9 | 1 | 16.9 | 0.03 | 0.076574436 | 1.29410797 | 0.038823239 | 0.039 | 32.3 | 1 | 32.3 | 0.3 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 8.82 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 19.5 | 1 | 19.5 | 0.3 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 7.59 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 0.3 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 1140 | 1 | 1140 | 0.03 | 0.076574436 | 87.29485714 | 2.618845714 | 2.6 | 23.7 | 1 | 23.7 | 0.3 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4.38 | 1 | 4.38 | 0.03 | 0.076574436 | 0.33539603 | 0.010061881 | 0.01 | 6.26 | 1 | 6.26 | 0.3 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4.56 | 1 | 4.56 | 0.03 | 0.076574436 | 0.349179429 | 0.010475383 | 0.01 | 9.23 | 1 | 9.23 | 0.3 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 780 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 15.3 | 0 | 0 | 0.3 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 2.22 | 1 | 2.22 | 0.03 | 0.076574436 | 0.169995248 | 0.005099857 | 0.0051 | 4.65 | 1 | 4.65 | 0.3 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.4 | 1 | 0.4 | 0.03 | 0.076574436 | 0.030629774 | 0.000918893 | 0.00092 | 0.66 | 1 | 0.66 | 0.3 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1.69 | 1 | 1.69 | 0.03 | 0.076574436 | 0.129410797 | 0.003882324 | 0.0039 | 2.51 | 1 | 2.51 | 0.3 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.13 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 0.14 | 0 | 0 | 0.3 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 4.32 | 1 | 4.32 | 0.03 | 0.076574436 | 0.330801564 | 0.009924047 | 0.0099 | 6.76 | 1 | 6.76 | 0.3 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 7.71 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 1.8 | 1 | 1.8 | 0.3 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 73.6 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 4.73 | 0 | 0 | 0.3 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 101 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 9.3 | 1 | 9.3 | 0.3 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 3.55 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.3 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.03 | 0.076574436 | | | | | | | 0.3 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1.1 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 2.6 | 1 | 2.6 | 0.3 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1.2 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 2.3 | 1 | 2.3 | 0.3 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 3.4 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 3.5 | 0 | 0 | 0.3 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 11.5 | 1 | 11.5 | 0.03 | 0.076574436 | 0.880606015 | 0.02641818 | 0.026 | 13.6 | 1 | 13.6 | 0.3 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.47 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 0.48 | 0 | 0 | 0.3 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.5 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 0.51 | 0 | 0 | 0.3 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1.7 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 1.7 | 1 | 1.7 | 0.3 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 2.28 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 1.3 | 1 | 1.3 | 0.3 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 17.65 | 1 | 17.65 | 0.03 | 0.076574436 | 1.351538797 | 0.040546164 | 0.041 | 26.75 | 1 | 26.75 | 0.3 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.03 | 0.076574436 | | | | | | | 0.3 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 1.1 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 8 | 1 | 8 | 0.3 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.57 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 1.76 | 1 | 1.76 | 0.3 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 2.53 | 1 | 2.53 | 0.03 | 0.076574436 | 0.193733323 | 0.005812 | 0.0058 | 1.98 | 1 | 1.98 | 0.3 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.03 | 0.076574436 | | | | | | | 0.3 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 322 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 4.7 | 1 | 4.7 | 0.3 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 708 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 3.23 | 0 | 0 | 0.3 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 27.9 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 18.2 | 1 | 18.2 | 0.3 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 158 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 4.6 | 1 | 4.6 | 0.3 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 126 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 4 | 1 | 4 | 0.3 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 58.8 | 0 | 0 | 0.03 | 0.076574436 | 0 | 0 | 0 | 0.455 | 0 | 0 | 0.3 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 23.6 | 1 | 23.6 | 0.03 | 0.076574436 | 1.807156692 | 0.054214701 | 0.054 | 37.1 | 1 | 37.1 | 0.3 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.83 | 1 | 1.83 | 0.03 | 0.076574436 | 0.140131218 | 0.004203937 | 0.0042 | 3.17 | 1 | 3.17 | 0.3 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.65 | 1 | 2.65 | 0.03 | 0.076574436 | 0.202922256 | 0.006087668 | 0.0061 | 3.85 | 1 | 3.85 | 0.3 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 4.77 | 1 | 4.77 | 0.03 | 0.076574436 | 0.36526006 | 0.010957802 | 0.011 | 7.26 | 1 | 7.26 | 0.3 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 6.8 | 1 | 6.8 | 0.03 | 0.076574436 | 0.520706165 | 0.015621185 | 0.016 | 16.1 | 1 | 16.1 | 0.3 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 4.12 | 1 | 4.12 | 0.03 | 0.076574436 | 0.315486677 | 0.0094646 | 0.0095 | 8.47 | 1 | 8.47 | 0.3 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 6.25 | 1 | 6.25 | 0.03 | 0.076574436 | 0.478590226 | 0.014357707 | 0.014 | 10.4 | 1 | 10.4 | 0.3 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.03 | 0.556600948 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.3 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.03 | 0.556600948 | 10.96503868 | 0.32895116 | 0.33 | 19.6 | 1 | 19.6 | 0.3 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.03 | 0.556600948 | 0.178112303 | 0.005343369 | 0.0053 | 0.28 | 1 | 0.28 | 0.3 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.03 | 0.556600948 | 2.783004741 | 0.083490142 | 0.083 | 12.8 | 1 | 12.8 | 0.3 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.03 | 0.556600948 | 0.486469229 | 0.014594077 | 0.015 | 2.04 | 1 | 2.04 | 0.3 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.03 | 0.556600948 | 0.271621263 | 0.008148638 | 0.0081 | 0.877 | 0 | 0 | 0.3 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.03 | 0.556600948 | 0.790373346 | 0.0237112 | 0.024 | 3.09 | 1 | 3.09 | 0.3 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.03 | 0.556600948 | 3.629038182 | 0.108871145 | 0.11 | 13 | 1 | 13 | 0.3 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.03 | 0.556600948 | 1.17999401 | 0.03539982 | 0.035 | 5.8 | 1 | 5.8 | 0.3 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.03 | 0.556600948 | 1.07423983 | 0.032227195 | 0.032 | 5.315 | 1 | 5.315 | 0.3 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.03 | 0.556600948 | | | | | | | 0.3 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.03 | 0.556600948 | | | | | | | 0.3 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.03 | 0.556600948 | | | | | | | 0.3 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.03 | 0.556600948 | | | | | | | 0.3 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.03 | 2.851005545 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.3 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.03 | 2.851005545 | 56.16480924 | 1.684944277 | 1.7 | 19.6 | 1 | 19.6 | 0.3 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.03 | 2.851005545 | 0.912321774 | 0.027369653 | 0.027 | 0.28 | 1 | 0.28 | 0.3 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.03 | 2.851005545 | 14.25502773 | 0.427650832 | 0.43 | 12.8 | 1 | 12.8 | 0.3 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.03 | 2.851005545 | 2.491778846 | 0.074753365 | 0.075 | 2.04 | 1 | 2.04 | 0.3 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.03 | 2.851005545 | 1.391290706 | 0.041738721 | 0.042 | 0.877 | 0 | 0 | 0.3 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.03 | 2.851005545 | 4.048427874 | 0.121452836 | 0.12 | 3.09 | 1 | 3.09 | 0.3 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.03 | 2.851005545 | 18.58855615 | 0.557656685 | 0.56 | 13 | 1 | 13 | 0.3 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.03 | 2.851005545 | 6.044131756 | 0.181323953 | 0.18 | 5.8 | 1 | 5.8 | 0.3 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.03 | 2.851005545 | 5.502440702 | 0.165073221 | 0.17 | 5.315 | 1 | 5.315 | 0.3 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.03 | 2.851005545 | | | | | | | 0.3 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.03 | 2.851005545 | | | | | | | 0.3 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.03 | 2.851005545 | | | | | | | 0.3 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.03 | 2.851005545 | | | | | | | 0.3 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.03 | 0.814556299 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.3 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.03 | 0.814556299 | 16.04675908 | 0.481402772 | 0.48 | 19.6 | 1 | 19.6 | 0.3 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.03 | 0.814556299 | 0.260658016 | 0.00781974 | 0.0078 | 0.28 | 1 | 0.28 | 0.3 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.03 | 0.814556299 | 4.072781493 | 0.122183445 | 0.12 | 12.8 | 1 | 12.8 | 0.3 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.03 | 0.814556299 | 0.711922205 | 0.021357666 | 0.021 | 2.04 | 1 | 2.04 | 0.3 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.03 | 0.814556299 | 0.397503474 | 0.011925104 | 0.012 | 0.877 | 0 | 0 | 0.3 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.03 | 0.814556299 | 1.156669944 | 0.034700098 | 0.035 | 3.09 | 1 | 3.09 | 0.3 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.03 | 0.814556299 | 5.310907067 | 0.159327212 | 0.16 | 13 | 1 | 13 | 0.3 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.03 | 0.814556299 | 1.726859353 | 0.051805781 | 0.052 | 5.8 | 1 | 5.8 | 0.3 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.03 | 0.814556299 | 1.572093656 | 0.04716281 | 0.047 | 5.315 | 1 | 5.315 | 0.3 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.03 | 0.814556299 | | | | | | | 0.3 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.03 | 0.814556299 | | | | | | | 0.3 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.03 | 0.814556299 | | | | | | | 0.3 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.03 | 0.814556299 | | | | | | | 0.3 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.03 | 2.106696236 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.3 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.03 | 2.106696236 | 41.50191585 | 1.245057475 | 1.2 | 19.6 | 1 | 19.6 | 0.3 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.03 | 2.106696236 | 0.674142795 | 0.020224284 | 0.02 | 0.28 | 1 | 0.28 | 0.3 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.03 | 2.106696236 | 10.53348118 | 0.316004435 | 0.32 | 12.8 | 1 | 12.8 | 0.3 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.03 | 2.106696236 | 1.84125251 | 0.055237575 | 0.055 | 2.04 | 1 | 2.04 | 0.3 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.03 | 2.106696236 | 1.028067763 | 0.030842033 | 0.031 | 0.877 | 0 | 0 | 0.3 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.03 | 2.106696236 | 2.991508655 | 0.08974526 | 0.09 | 3.09 | 1 | 3.09 | 0.3 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.03 | 2.106696236 | 13.73565946 | 0.412069784 | 0.41 | 13 | 1 | 13 | 0.3 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.03 | 2.106696236 | 4.46619602 | 0.133985881 | 0.13 | 5.8 | 1 | 5.8 | 0.3 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.03 | 2.106696236 | 4.065923735 | 0.121977712 | 0.12 | 5.315 | 1 | 5.315 | 0.3 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.03 | 2.106696236 | | | | | | | 0.3 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.03 | 2.106696236 | | | | | | | 0.3 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.03 | 2.106696236 | | | | | | | 0.3 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.03 | 2.106696236 | | | | | | | 0.3 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.3 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.03 | NA | 0 | 0 | 0 | 19.6 | 1 | 19.6 | 0.3 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.03 | NA | 0 | 0 | 0 | 0.28 | 1 | 0.28 | 0.3 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.03 | NA | 0 | 0 | 0 | 12.8 | 1 | 12.8 | 0.3 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.03 | NA | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.3 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.03 | NA | 0 | 0 | 0 | 0.877 | 0 | 0 | 0.3 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.03 | NA | 0 | 0 | 0 | 3.09 | 1 | 3.09 | 0.3 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.03 | NA | 0 | 0 | 0 | 13 | 1 | 13 | 0.3 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.03 | NA | 0 | 0 | 0 | 5.8 | 1 | 5.8 | 0.3 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.03 | NA | 0 | 0 | 0 | 5.315 | 1 | 5.315 | 0.3 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.03 | 4.349554586 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.3 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.03 | 4.349554586 | 85.68622535 | 2.57058676 | 2.6 | 19.6 | 1 | 19.6 | 0.3 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.03 | 4.349554586 | 1.391857468 | 0.041755724 | 0.042 | 0.28 | 1 | 0.28 | 0.3 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.03 | 4.349554586 | 21.74777293 | 0.652433188 | 0.65 | 12.8 | 1 | 12.8 | 0.3 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.03 | 4.349554586 | 3.801510708 | 0.114045321 | 0.11 | 2.04 | 1 | 2.04 | 0.3 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.03 | 4.349554586 | 2.122582638 | 0.063677479 | 0.064 | 0.877 | 0 | 0 | 0.3 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.03 | 4.349554586 | 6.176367512 | 0.185291025 | 0.19 | 3.09 | 1 | 3.09 | 0.3 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.03 | 4.349554586 | 28.3590959 | 0.850772877 | 0.85 | 13 | 1 | 13 | 0.3 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.03 | 4.349554586 | 9.221055723 | 0.276631672 | 0.28 | 5.8 | 1 | 5.8 | 0.3 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.03 | 4.349554586 | 8.394640351 | 0.251839211 | 0.25 | 5.315 | 1 | 5.315 | 0.3 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.03 | 4.349554586 | | | | | | | 0.3 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.03 | 4.349554586 | | | | | | | 0.3 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.03 | 4.349554586 | | | | | | | 0.3 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.03 | 4.349554586 | | | | | | | 0.3 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.3 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.03 | NA | 0 | 0 | 0 | 19.6 | 1 | 19.6 | 0.3 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.03 | NA | 0 | 0 | 0 | 0.28 | 1 | 0.28 | 0.3 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.03 | NA | 0 | 0 | 0 | 12.8 | 1 | 12.8 | 0.3 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.03 | NA | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.3 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.03 | NA | 0 | 0 | 0 | 0.877 | 0 | 0 | 0.3 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.03 | NA | 0 | 0 | 0 | 3.09 | 1 | 3.09 | 0.3 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.03 | NA | 0 | 0 | 0 | 13 | 1 | 13 | 0.3 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.03 | NA | 0 | 0 | 0 | 5.8 | 1 | 5.8 | 0.3 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.03 | NA | 0 | 0 | 0 | 5.315 | 1 | 5.315 | 0.3 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.03 | 0.999211784 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.3 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.03 | 0.999211784 | 19.68447215 | 0.590534165 | 0.59 | 19.6 | 1 | 19.6 | 0.3 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.03 | 0.999211784 | 0.319747771 | 0.009592433 | 0.0096 | 0.28 | 1 | 0.28 | 0.3 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.03 | 0.999211784 | 4.996058922 | 0.149881768 | 0.15 | 12.8 | 1 | 12.8 | 0.3 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.03 | 0.999211784 | 0.8733111 | 0.026199333 | 0.026 | 2.04 | 1 | 2.04 | 0.3 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.03 | 0.999211784 | 0.487615351 | 0.014628461 | 0.015 | 0.877 | 0 | 0 | 0.3 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.03 | 0.999211784 | 1.418880734 | 0.042566422 | 0.043 | 3.09 | 1 | 3.09 | 0.3 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.03 | 0.999211784 | 6.514860835 | 0.195445825 | 0.2 | 13 | 1 | 13 | 0.3 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.03 | 0.999211784 | 2.118328983 | 0.063549869 | 0.064 | 5.8 | 1 | 5.8 | 0.3 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.03 | 0.999211784 | 1.928478744 | 0.057854362 | 0.058 | 5.315 | 1 | 5.315 | 0.3 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.03 | 0.999211784 | | | | | | | 0.3 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.03 | 0.999211784 | | | | | | | 0.3 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.03 | 0.999211784 | | | | | | | 0.3 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.03 | 0.999211784 | | | | | | | 0.3 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.03 | 0.925056906 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.3 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.03 | 0.925056906 | 18.22362104 | 0.546708631 | 0.55 | 19.6 | 1 | 19.6 | 0.3 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.03 | 0.925056906 | 0.29601821 | 0.008880546 | 0.0089 | 0.28 | 1 | 0.28 | 0.3 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.03 | 0.925056906 | 4.625284529 | 0.138758536 | 0.14 | 12.8 | 1 | 12.8 | 0.3 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.03 | 0.925056906 | 0.808499736 | 0.024254992 | 0.024 | 2.04 | 1 | 2.04 | 0.3 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.03 | 0.925056906 | 0.45142777 | 0.013542833 | 0.014 | 0.877 | 0 | 0 | 0.3 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.03 | 0.925056906 | 1.313580806 | 0.039407424 | 0.039 | 3.09 | 1 | 3.09 | 0.3 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.03 | 0.925056906 | 6.031371026 | 0.180941131 | 0.18 | 13 | 1 | 13 | 0.3 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.03 | 0.925056906 | 1.96112064 | 0.058833619 | 0.059 | 5.8 | 1 | 5.8 | 0.3 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.03 | 0.925056906 | 1.785359828 | 0.053560795 | 0.054 | 5.315 | 1 | 5.315 | 0.3 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.03 | 0.925056906 | | | | | | | 0.3 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.03 | 0.925056906 | | | | | | | 0.3 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.03 | 0.925056906 | | | | | | | 0.3 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.03 | 0.925056906 | | | | | | | 0.3 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.3 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.03 | NA | 0 | 0 | 0 | 19.6 | 1 | 19.6 | 0.3 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.03 | NA | 0 | 0 | 0 | 0.28 | 1 | 0.28 | 0.3 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.03 | NA | 0 | 0 | 0 | 12.8 | 1 | 12.8 | 0.3 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.03 | NA | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.3 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.03 | NA | 0 | 0 | 0 | 0.877 | 0 | 0 | 0.3 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.03 | NA | 0 | 0 | 0 | 3.09 | 1 | 3.09 | 0.3 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.03 | NA | 0 | 0 | 0 | 13 | 1 | 13 | 0.3 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.03 | NA | 0 | 0 | 0 | 5.8 | 1 | 5.8 | 0.3 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.03 | NA | 0 | 0 | 0 | 5.315 | 1 | 5.315 | 0.3 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.03 | NA | 0 | 0 | 0 | | | | 0.3 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.03 | 4.349554586 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.3 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.03 | 4.349554586 | 85.68622535 | 2.57058676 | 2.6 | 19.6 | 1 | 19.6 | 0.3 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.03 | 4.349554586 | 1.391857468 | 0.041755724 | 0.042 | 0.28 | 1 | 0.28 | 0.3 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.03 | 4.349554586 | 21.74777293 | 0.652433188 | 0.65 | 12.8 | 1 | 12.8 | 0.3 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.03 | 4.349554586 | 3.801510708 | 0.114045321 | 0.11 | 2.04 | 1 | 2.04 | 0.3 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.03 | 4.349554586 | 2.122582638 | 0.063677479 | 0.064 | 0.877 | 0 | 0 | 0.3 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.03 | 4.349554586 | 6.176367512 | 0.185291025 | 0.19 | 3.09 | 1 | 3.09 | 0.3 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.03 | 4.349554586 | 28.3590959 | 0.850772877 | 0.85 | 13 | 1 | 13 | 0.3 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.03 | 4.349554586 | 9.221055723 | 0.276631672 | 0.28 | 5.8 | 1 | 5.8 | 0.3 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.03 | 4.349554586 | 8.394640351 | 0.251839211 | 0.25 | 5.315 | 1 | 5.315 | 0.3 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.03 | 4.349554586 | | | | | | | 0.3 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.03 | 4.349554586 | | | | | | | 0.3 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.03 | 4.349554586 | | | | | | | 0.3 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.03 | 4.349554586 | | | | | | | 0.3 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 1.757348914 | 30.40213621 | 9.120640862 | 9.1 | 43 | 1 | 43 | 0.1 | 0.18115942 | 7.789855072 | 0.778985507 | 0.78 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 1.757348914 | 9.138214351 | 2.741464305 | 2.7 | 10.7 | 1 | 10.7 | 0.1 | 0.18115942 | 1.938405797 | 0.19384058 | 0.19 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 1.757348914 | 11.59850283 | 3.479550849 | 3.5 | 19.9 | 1 | 19.9 | 0.1 | 0.18115942 | 3.605072464 | 0.360507246 | 0.36 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 1.757348914 | 42.87931349 | 12.86379405 | 13 | 57.5 | 1 | 57.5 | 0.1 | 0.18115942 | 10.41666667 | 1.041666667 | 1 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 1.757348914 | 28.82052218 | 8.646156655 | 8.6 | 37.2 | 1 | 37.2 | 0.1 | 0.18115942 | 6.739130435 | 0.673913043 | 0.67 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 1.757348914 | 21.43965675 | 6.431897024 | 6.4 | 26.4 | 1 | 26.4 | 0.1 | 0.18115942 | 4.782608696 | 0.47826087 | 0.48 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 1.757348914 | 24.4271499 | 7.32814497 | 7.3 | 33.2 | 1 | 33.2 | 0.1 | 0.18115942 | 6.014492754 | 0.601449275 | 0.6 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.757348914 | 2.864478729 | 0.859343619 | 0.86 | 4.19 | 1 | 4.19 | 0.1 | 0.18115942 | 0.759057971 | 0.075905797 | 0.076 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 1.757348914 | 37.25579697 | 11.17673909 | 11 | 43.9 | 1 | 43.9 | 0.1 | 0.18115942 | 7.952898551 | 0.795289855 | 0.8 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 1.757348914 | 27.23890816 | 8.171672448 | 8.2 | 35.2 | 1 | 35.2 | 0.1 | 0.18115942 | 6.376811594 | 0.637681159 | 0.64 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 1.757348914 | 17.23959284 | 5.171877853 | 5.2 | 23.3 | 1 | 23.3 | 0.1 | 0.18115942 | 4.221014493 | 0.422101449 | 0.42 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 1.757348914 | 18.62789848 | 5.588369545 | 5.6 | 24.3 | 1 | 24.3 | 0.1 | 0.18115942 | 4.402173913 | 0.440217391 | 0.44 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 1.757348914 | 25.65729414 | 7.697188242 | 7.7 | 32.2 | 1 | 32.2 | 0.1 | 0.18115942 | 5.833333333 | 0.583333333 | 0.58 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 1.757348914 | 27.23890816 | 8.171672448 | 8.2 | 31.8 | 1 | 31.8 | 0.1 | 0.18115942 | 5.760869565 | 0.576086957 | 0.58 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1.757348914 | | | | | | | 0.1 | 0.18115942 | | | |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 1.757348914 | 16.72996166 | 5.018988497 | 5 | 23.7 | 1 | 23.7 | 0.1 | 0.18115942 | 4.293478261 | 0.429347826 | 0.43 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1.757348914 | 12.16085448 | 3.648256345 | 3.6 | 17.7 | 1 | 17.7 | 0.1 | 0.18115942 | 3.206521739 | 0.320652174 | 0.32 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1.757348914 | 7.187557057 | 2.156267117 | 2.2 | 10.1 | 1 | 10.1 | 0.1 | 0.18115942 | 1.829710145 | 0.182971014 | 0.18 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 1.757348914 | 7.064542633 | 2.11936279 | 2.1 | 9.06 | 1 | 9.06 | 0.1 | 0.18115942 | 1.641304348 | 0.164130435 | 0.16 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 1.757348914 | 47.09695089 | 14.12908527 | 14 | 59 | 1 | 59 | 0.1 | 0.18115942 | 10.6884058 | 1.06884058 | 1.1 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 1.757348914 | 13.56673361 | 4.070020084 | 4.1 | 10.1 | 1 | 10.1 | 0.1 | 0.18115942 | 1.829710145 | 0.182971014 | 0.18 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 1.757348914 | 10.06960928 | 3.020882783 | 3 | 12.8 | 1 | 12.8 | 0.1 | 0.18115942 | 2.31884058 | 0.231884058 | 0.23 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 1.757348914 | 19.33083805 | 5.799251415 | 5.8 | 21.8 | 1 | 21.8 | 0.1 | 0.18115942 | 3.949275362 | 0.394927536 | 0.39 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 1.757348914 | 10.05203579 | 3.015610736 | 3 | 12.8 | 1 | 12.8 | 0.1 | 0.18115942 | 2.31884058 | 0.231884058 | 0.23 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 1.757348914 | 17.92495892 | 5.377487676 | 5.4 | 18.3 | 1 | 18.3 | 0.1 | 0.18115942 | 3.315217391 | 0.331521739 | 0.33 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 1.757348914 | 49.90870915 | 14.97261274 | 15 | 49.2 | 1 | 49.2 | 0.1 | 0.18115942 | 8.913043478 | 0.891304348 | 0.89 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 1.757348914 | 22.3183312 | 6.695499361 | 6.7 | 22.4 | 1 | 22.4 | 0.1 | 0.18115942 | 4.057971014 | 0.405797101 | 0.41 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 1.757348914 | 29.87493153 | 8.96247946 | 9 | 42.3 | 1 | 42.3 | 0.1 | 0.18115942 | 7.663043478 | 0.766304348 | 0.77 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 1.757348914 | 37.60726675 | 11.28218003 | 11 | 44.4 | 1 | 44.4 | 0.1 | 0.18115942 | 8.043478261 | 0.804347826 | 0.8 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 1.757348914 | 11.19431258 | 3.358293774 | 3.4 | 13.9 | 1 | 13.9 | 0.1 | 0.18115942 | 2.518115942 | 0.251811594 | 0.25 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 1.757348914 | 20.03377762 | 6.010133285 | 6 | 26 | 1 | 26 | 0.1 | 0.18115942 | 4.710144928 | 0.471014493 | 0.47 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 1.757348914 | 22.3183312 | 6.695499361 | 6.7 | 30.2 | 1 | 30.2 | 0.1 | 0.18115942 | 5.471014493 | 0.547101449 | 0.55 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 1.757348914 | 13.79518897 | 4.138556692 | 4.1 | 14.9 | 1 | 14.9 | 0.1 | 0.18115942 | 2.699275362 | 0.269927536 | 0.27 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 1.757348914 | 29.34772686 | 8.804318057 | 8.8 | 40.4 | 1 | 40.4 | 0.1 | 0.18115942 | 7.31884058 | 0.731884058 | 0.73 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 1.757348914 | 13.97092386 | 4.191277159 | 4.2 | 17.7 | 1 | 17.7 | 0.1 | 0.18115942 | 3.206521739 | 0.320652174 | 0.32 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 1.757348914 | 32.33522001 | 9.700566003 | 9.7 | 47.6 | 1 | 47.6 | 0.1 | 0.18115942 | 8.623188406 | 0.862318841 | 0.86 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 1.757348914 | 33.38962936 | 10.01688881 | 10 | 39.45 | 1 | 39.45 | 0.1 | 0.18115942 | 7.14673913 | 0.714673913 | 0.71 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 1.757348914 | | | | | | | 0.1 | 0.18115942 | | | |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 1.757348914 | 29.52346175 | 8.857038525 | 8.9 | 41.1 | 1 | 41.1 | 0.1 | 0.18115942 | 7.445652174 | 0.744565217 | 0.74 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 1.757348914 | 19.85804272 | 5.957412817 | 6 | 29.3 | 1 | 29.3 | 0.1 | 0.18115942 | 5.307971014 | 0.530797101 | 0.53 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 1.757348914 | 41.82490414 | 12.54747124 | 13 | 55.7 | 1 | 55.7 | 0.1 | 0.18115942 | 10.09057971 | 1.009057971 | 1 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 1.757348914 | 45.33960197 | 13.60188059 | 14 | 51.5 | 1 | 51.5 | 0.1 | 0.18115942 | 9.329710145 | 0.932971014 | 0.93 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 1.757348914 | 50.26017893 | 15.07805368 | 15 | 51.7 | 1 | 51.7 | 0.1 | 0.18115942 | 9.365942029 | 0.936594203 | 0.94 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 1.757348914 | 7.169983568 | 2.15099507 | 2.2 | 12.7 | 1 | 12.7 | 0.1 | 0.18115942 | 2.300724638 | 0.230072464 | 0.23 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 1.757348914 | 61.50721198 | 18.45216359 | 18 | 183 | 1 | 183 | 0.1 | 0.18115942 | 33.15217391 | 3.315217391 | 3.3 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 1.757348914 | 34.09256892 | 10.22777068 | 10 | 43.7 | 1 | 43.7 | 0.1 | 0.18115942 | 7.916666667 | 0.791666667 | 0.79 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 1.757348914 | 9.946594851 | 2.983978455 | 3 | 16.1 | 1 | 16.1 | 0.1 | 0.18115942 | 2.916666667 | 0.291666667 | 0.29 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 1.757348914 | 13.93577689 | 4.180733066 | 4.2 | 25.4 | 1 | 25.4 | 0.1 | 0.18115942 | 4.601449275 | 0.460144928 | 0.46 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 1.757348914 | 53.95061165 | 16.18518349 | 16 | 29.6 | 1 | 29.6 | 0.1 | 0.18115942 | 5.362318841 | 0.536231884 | 0.54 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 1.757348914 | 34.79550849 | 10.43865255 | 10 | 42 | 1 | 42 | 0.1 | 0.18115942 | 7.608695652 | 0.760869565 | 0.76 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 1.757348914 | 18.97936827 | 5.69381048 | 5.7 | 35.5 | 1 | 35.5 | 0.1 | 0.18115942 | 6.43115942 | 0.643115942 | 0.64 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1.757348914 | 0 | 0 | 0 | 6.63 | 0 | 0 | 0.1 | 0.18115942 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 1.757348914 | 18.97936827 | 5.69381048 | 5.7 | 28.6 | 1 | 28.6 | 0.1 | 0.18115942 | 5.18115942 | 0.518115942 | 0.52 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 1.757348914 | 129.5166149 | 38.85498448 | 39 | 120 | 1 | 120 | 0.1 | 0.18115942 | 21.73913043 | 2.173913043 | 2.2 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 1.757348914 | | | | | | | 0.1 | 0.18115942 | | | |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 1.757348914 | 13.30313128 | 3.990939383 | 4 | 32.5 | 1 | 32.5 | 0.1 | 0.18115942 | 5.887681159 | 0.588768116 | 0.59 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.757348914 | 17.38018076 | 5.214054227 | 5.2 | 40.6 | 1 | 40.6 | 0.1 | 0.18115942 | 7.355072464 | 0.735507246 | 0.74 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 1.757348914 | 9.349096221 | 2.804728866 | 2.8 | 22.1 | 1 | 22.1 | 0.1 | 0.18115942 | 4.003623188 | 0.400362319 | 0.4 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 1.757348914 | 20.20951251 | 6.062853752 | 6.1 | 29.9 | 1 | 29.9 | 0.1 | 0.18115942 | 5.416666667 | 0.541666667 | 0.54 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 1.757348914 | 33.21389447 | 9.96416834 | 10 | 30 | 1 | 30 | 0.1 | 0.18115942 | 5.434782609 | 0.543478261 | 0.54 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 1.757348914 | 11.29975351 | 3.389926054 | 3.4 | 12.4 | 1 | 12.4 | 0.1 | 0.18115942 | 2.246376812 | 0.224637681 | 0.22 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 1.757348914 | 26.3602337 | 7.908070111 | 7.9 | 27.2 | 1 | 27.2 | 0.1 | 0.18115942 | 4.927536232 | 0.492753623 | 0.49 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 1.757348914 | 56.76236991 | 17.02871097 | 17 | 52.9 | 1 | 52.9 | 0.1 | 0.18115942 | 9.583333333 | 0.958333333 | 0.96 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 1.757348914 | 34.26830382 | 10.28049114 | 10 | 47.8 | 1 | 47.8 | 0.1 | 0.18115942 | 8.65942029 | 0.865942029 | 0.87 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 1.757348914 | 23.89994523 | 7.169983568 | 7.2 | 24.7 | 1 | 24.7 | 0.1 | 0.18115942 | 4.474637681 | 0.447463768 | 0.45 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 1.757348914 | 41.64916925 | 12.49475078 | 12 | 97.4 | 1 | 97.4 | 0.1 | 0.18115942 | 17.64492754 | 1.764492754 | 1.8 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 1.757348914 | 11.0010042 | 3.30030126 | 3.3 | 13 | 1 | 13 | 0.1 | 0.18115942 | 2.355072464 | 0.235507246 | 0.24 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 1.757348914 | 16.22033047 | 4.866099142 | 4.9 | 17.7 | 1 | 17.7 | 0.1 | 0.18115942 | 3.206521739 | 0.320652174 | 0.32 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 1.757348914 | 0 | 0 | 0 | 44 | 1 | 44 | 0.1 | 0.18115942 | 7.971014493 | 0.797101449 | 0.8 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1.757348914 | 8.171672448 | 2.451501735 | 2.5 | 7.94 | 1 | 7.94 | 0.1 | 0.18115942 | 1.438405797 | 0.14384058 | 0.14 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1.757348914 | 1.159850283 | 0.347955085 | 0.35 | 0.99 | 0 | 0 | 0.1 | 0.18115942 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1.757348914 | 4.410945773 | 1.323283732 | 1.3 | 3.62 | 1 | 3.62 | 0.1 | 0.18115942 | 0.655797101 | 0.06557971 | 0.066 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1.757348914 | 0 | 0 | 0 | 0.082 | 0 | 0 | 0.1 | 0.18115942 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1.757348914 | 11.87967866 | 3.563903597 | 3.6 | 11.3 | 1 | 11.3 | 0.1 | 0.18115942 | 2.047101449 | 0.204710145 | 0.2 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1.757348914 | 3.163228045 | 0.948968413 | 0.95 | 2.9 | 1 | 2.9 | 0.1 | 0.18115942 | 0.525362319 | 0.052536232 | 0.053 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 1.757348914 | 0 | 0 | 0 | 9.6 | 1 | 9.6 | 0.1 | 0.18115942 | 1.739130435 | 0.173913043 | 0.17 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 1.757348914 | 16.3433449 | 4.903003469 | 4.9 | 21.1 | 1 | 21.1 | 0.1 | 0.18115942 | 3.822463768 | 0.382246377 | 0.38 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1.757348914 | 3.338962936 | 1.001688881 | 1 | 3.05 | 1 | 3.05 | 0.1 | 0.18115942 | 0.552536232 | 0.055253623 | 0.055 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 1.757348914 | | | | | | | 0.1 | 0.18115942 | | | |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1.757348914 | 4.569107175 | 1.370732153 | 1.4 | 7.38 | 1 | 7.38 | 0.1 | 0.18115942 | 1.336956522 | 0.133695652 | 0.13 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1.757348914 | 4.041902501 | 1.21257075 | 1.2 | 5.76 | 1 | 5.76 | 0.1 | 0.18115942 | 1.043478261 | 0.104347826 | 0.1 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1.757348914 | 0 | 0 | 0 | 1.19 | 1 | 1.19 | 0.1 | 0.18115942 | 0.21557971 | 0.021557971 | 0.022 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 1.757348914 | 23.89994523 | 7.169983568 | 7.2 | 54.5 | 1 | 54.5 | 0.1 | 0.18115942 | 9.873188406 | 0.987318841 | 0.99 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1.757348914 | 0 | 0 | 0 | 0.34 | 0 | 0 | 0.1 | 0.18115942 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1.757348914 | 0 | 0 | 0 | 0.59 | 1 | 0.59 | 0.1 | 0.18115942 | 0.106884058 | 0.010688406 | 0.011 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1.757348914 | 2.987493153 | 0.896247946 | 0.9 | 2.5 | 1 | 2.5 | 0.1 | 0.18115942 | 0.452898551 | 0.045289855 | 0.045 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1.757348914 | 2.284553588 | 0.685366076 | 0.69 | 1.6 | 1 | 1.6 | 0.1 | 0.18115942 | 0.289855072 | 0.028985507 | 0.029 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 1.757348914 | 47.00908344 | 14.10272503 | 14 | 49.65 | 1 | 49.65 | 0.1 | 0.18115942 | 8.994565217 | 0.899456522 | 0.9 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 1.757348914 | | | | | | | 0.1 | 0.18115942 | | | |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 1.757348914 | 14.05879131 | 4.217637393 | 4.2 | 13.5 | 1 | 13.5 | 0.1 | 0.18115942 | 2.445652174 | 0.244565217 | 0.24 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1.757348914 | 3.092934088 | 0.927880226 | 0.93 | 3.4 | 0 | 0 | 0.1 | 0.18115942 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1.757348914 | 3.479550849 | 1.043865255 | 1 | 10.355 | 1 | 10.355 | 0.1 | 0.18115942 | 1.875905797 | 0.18759058 | 0.19 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 1.757348914 | | | | | | | 0.1 | 0.18115942 | | | |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1.757348914 | 8.259539894 | 2.477861968 | 2.5 | 4.61 | 0 | 0 | 0.1 | 0.18115942 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 1.757348914 | 0 | 0 | 0 | 30.9 | 1 | 30.9 | 0.1 | 0.18115942 | 5.597826087 | 0.559782609 | 0.56 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 1.757348914 | 31.98375023 | 9.595125068 | 9.6 | 20.9 | 1 | 20.9 | 0.1 | 0.18115942 | 3.786231884 | 0.378623188 | 0.38 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 1.757348914 | 8.083805003 | 2.425141501 | 2.4 | 10.9 | 1 | 10.9 | 0.1 | 0.18115942 | 1.974637681 | 0.197463768 | 0.2 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 1.757348914 | 7.029395655 | 2.108818696 | 2.1 | 10.4 | 1 | 10.4 | 0.1 | 0.18115942 | 1.884057971 | 0.188405797 | 0.19 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 1.757348914 | 0 | 0 | 0 | 10.3 | 1 | 10.3 | 0.1 | 0.18115942 | 1.865942029 | 0.186594203 | 0.19 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 1.757348914 | 65.1976447 | 19.55929341 | 20 | 86.7 | 1 | 86.7 | 0.1 | 0.18115942 | 15.70652174 | 1.570652174 | 1.6 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.757348914 | 5.570796056 | 1.671238817 | 1.7 | 5.54 | 1 | 5.54 | 0.1 | 0.18115942 | 1.003623188 | 0.100362319 | 0.1 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 1.757348914 | 6.765793318 | 2.029737995 | 2 | 7.37 | 1 | 7.37 | 0.1 | 0.18115942 | 1.335144928 | 0.133514493 | 0.13 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 1.757348914 | 12.75835311 | 3.827505934 | 3.8 | 14 | 1 | 14 | 0.1 | 0.18115942 | 2.536231884 | 0.253623188 | 0.25 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 1.757348914 | 28.29331751 | 8.487995253 | 8.5 | 27.9 | 1 | 27.9 | 0.1 | 0.18115942 | 5.054347826 | 0.505434783 | 0.51 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 1.757348914 | 14.8847453 | 4.46542359 | 4.5 | 16.3 | 1 | 16.3 | 0.1 | 0.18115942 | 2.952898551 | 0.295289855 | 0.3 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 1.757348914 | 18.2764287 | 5.482928611 | 5.5 | 27.3 | 1 | 27.3 | 0.1 | 0.18115942 | 4.945652174 | 0.494565217 | 0.49 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 43 | 1 | 43 | 0.1 | 0.16359682 | 7.034663279 | 0.703466328 | 0.7 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 10.7 | 1 | 10.7 | 0.1 | 0.16359682 | 1.750485979 | 0.175048598 | 0.18 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 19.9 | 1 | 19.9 | 0.1 | 0.16359682 | 3.255576727 | 0.325557673 | 0.33 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 57.5 | 1 | 57.5 | 0.1 | 0.16359682 | 9.406817176 | 0.940681718 | 0.94 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 37.2 | 1 | 37.2 | 0.1 | 0.16359682 | 6.085801721 | 0.608580172 | 0.61 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 26.4 | 1 | 26.4 | 0.1 | 0.16359682 | 4.31895606 | 0.431895606 | 0.43 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 33.2 | 1 | 33.2 | 0.1 | 0.16359682 | 5.431414439 | 0.543141444 | 0.54 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 4.19 | 1 | 4.19 | 0.1 | 0.16359682 | 0.685470678 | 0.068547068 | 0.069 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 43.9 | 1 | 43.9 | 0.1 | 0.16359682 | 7.181900418 | 0.718190042 | 0.72 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 35.2 | 1 | 35.2 | 0.1 | 0.16359682 | 5.75860808 | 0.575860808 | 0.58 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 23.3 | 1 | 23.3 | 0.1 | 0.16359682 | 3.811805916 | 0.381180592 | 0.38 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 24.3 | 1 | 24.3 | 0.1 | 0.16359682 | 3.975402737 | 0.397540274 | 0.4 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 32.2 | 1 | 32.2 | 0.1 | 0.16359682 | 5.267817618 | 0.526781762 | 0.53 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 31.8 | 1 | 31.8 | 0.1 | 0.16359682 | 5.20237889 | 0.520237889 | 0.52 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | | | | 0.1 | 0.16359682 | | | |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 23.7 | 1 | 23.7 | 0.1 | 0.16359682 | 3.877244645 | 0.387724464 | 0.39 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 17.7 | 1 | 17.7 | 0.1 | 0.16359682 | 2.895663722 | 0.289566372 | 0.29 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 10.1 | 1 | 10.1 | 0.1 | 0.16359682 | 1.652327887 | 0.165232789 | 0.17 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 9.06 | 1 | 9.06 | 0.1 | 0.16359682 | 1.482187193 | 0.148218719 | 0.15 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 59 | 1 | 59 | 0.1 | 0.16359682 | 9.652212406 | 0.965221241 | 0.97 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 10.1 | 1 | 10.1 | 0.1 | 0.16359682 | 1.652327887 | 0.165232789 | 0.17 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 12.8 | 1 | 12.8 | 0.1 | 0.16359682 | 2.094039302 | 0.20940393 | 0.21 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 21.8 | 1 | 21.8 | 0.1 | 0.16359682 | 3.566410686 | 0.356641069 | 0.36 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 12.8 | 1 | 12.8 | 0.1 | 0.16359682 | 2.094039302 | 0.20940393 | 0.21 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 18.3 | 1 | 18.3 | 0.1 | 0.16359682 | 2.993821814 | 0.299382181 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 49.2 | 1 | 49.2 | 0.1 | 0.16359682 | 8.048963566 | 0.804896357 | 0.8 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 22.4 | 1 | 22.4 | 0.1 | 0.16359682 | 3.664568778 | 0.366456878 | 0.37 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 42.3 | 1 | 42.3 | 0.1 | 0.16359682 | 6.920145505 | 0.69201455 | 0.69 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 44.4 | 1 | 44.4 | 0.1 | 0.16359682 | 7.263698828 | 0.726369883 | 0.73 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 13.9 | 1 | 13.9 | 0.1 | 0.16359682 | 2.273995804 | 0.22739958 | 0.23 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 26 | 1 | 26 | 0.1 | 0.16359682 | 4.253517332 | 0.425351733 | 0.43 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 30.2 | 1 | 30.2 | 0.1 | 0.16359682 | 4.940623978 | 0.494062398 | 0.49 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 14.9 | 1 | 14.9 | 0.1 | 0.16359682 | 2.437592625 | 0.243759262 | 0.24 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 40.4 | 1 | 40.4 | 0.1 | 0.16359682 | 6.609311546 | 0.660931155 | 0.66 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 17.7 | 1 | 17.7 | 0.1 | 0.16359682 | 2.895663722 | 0.289566372 | 0.29 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 47.6 | 1 | 47.6 | 0.1 | 0.16359682 | 7.787208653 | 0.778720865 | 0.78 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 39.45 | 1 | 39.45 | 0.1 | 0.16359682 | 6.453894567 | 0.645389457 | 0.65 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 0.1 | 0.16359682 | | | |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 41.1 | 1 | 41.1 | 0.1 | 0.16359682 | 6.72382932 | 0.672382932 | 0.67 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 29.3 | 1 | 29.3 | 0.1 | 0.16359682 | 4.793386839 | 0.479338684 | 0.48 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 55.7 | 1 | 55.7 | 0.1 | 0.16359682 | 9.112342899 | 0.91123429 | 0.91 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 51.5 | 1 | 51.5 | 0.1 | 0.16359682 | 8.425236253 | 0.842523625 | 0.84 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 51.7 | 1 | 51.7 | 0.1 | 0.16359682 | 8.457955617 | 0.845795562 | 0.85 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 12.7 | 1 | 12.7 | 0.1 | 0.16359682 | 2.07767962 | 0.207767962 | 0.21 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 183 | 1 | 183 | 0.1 | 0.16359682 | 29.93821814 | 2.993821814 | 3 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 43.7 | 1 | 43.7 | 0.1 | 0.16359682 | 7.149181054 | 0.714918105 | 0.71 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 16.1 | 1 | 16.1 | 0.1 | 0.16359682 | 2.633908809 | 0.263390881 | 0.26 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 25.4 | 1 | 25.4 | 0.1 | 0.16359682 | 4.155359239 | 0.415535924 | 0.42 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 29.6 | 1 | 29.6 | 0.1 | 0.16359682 | 4.842465885 | 0.484246589 | 0.48 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 42 | 1 | 42 | 0.1 | 0.16359682 | 6.871066459 | 0.687106646 | 0.69 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 35.5 | 1 | 35.5 | 0.1 | 0.16359682 | 5.807687126 | 0.580768713 | 0.58 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 6.63 | 0 | 0 | 0.1 | 0.16359682 | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 28.6 | 1 | 28.6 | 0.1 | 0.16359682 | 4.678869065 | 0.467886906 | 0.47 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 120 | 1 | 120 | 0.1 | 0.16359682 | 19.63161845 | 1.963161845 | 2 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | | | | 0.1 | 0.16359682 | | | |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 32.5 | 1 | 32.5 | 0.1 | 0.16359682 | 5.316896665 | 0.531689666 | 0.53 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 40.6 | 1 | 40.6 | 0.1 | 0.16359682 | 6.64203091 | 0.664203091 | 0.66 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 22.1 | 1 | 22.1 | 0.1 | 0.16359682 | 3.615489732 | 0.361548973 | 0.36 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 29.9 | 1 | 29.9 | 0.1 | 0.16359682 | 4.891544931 | 0.489154493 | 0.49 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 30 | 1 | 30 | 0.1 | 0.16359682 | 4.907904613 | 0.490790461 | 0.49 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 12.4 | 1 | 12.4 | 0.1 | 0.16359682 | 2.028600574 | 0.202860057 | 0.2 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 27.2 | 1 | 27.2 | 0.1 | 0.16359682 | 4.449833516 | 0.444983352 | 0.44 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 52.9 | 1 | 52.9 | 0.1 | 0.16359682 | 8.654271802 | 0.86542718 | 0.87 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 47.8 | 1 | 47.8 | 0.1 | 0.16359682 | 7.819928017 | 0.781992802 | 0.78 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 24.7 | 1 | 24.7 | 0.1 | 0.16359682 | 4.040841465 | 0.404084147 | 0.4 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 97.4 | 1 | 97.4 | 0.1 | 0.16359682 | 15.93433031 | 1.593433031 | 1.6 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 13 | 1 | 13 | 0.1 | 0.16359682 | 2.126758666 | 0.212675867 | 0.21 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 17.7 | 1 | 17.7 | 0.1 | 0.16359682 | 2.895663722 | 0.289566372 | 0.29 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 44 | 1 | 44 | 0.1 | 0.16359682 | 7.1982601 | 0.71982601 | 0.72 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 7.94 | 1 | 7.94 | 0.1 | 0.16359682 | 1.298958754 | 0.129895875 | 0.13 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 0.99 | 0 | 0 | 0.1 | 0.16359682 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 3.62 | 1 | 3.62 | 0.1 | 0.16359682 | 0.59222049 | 0.059222049 | 0.059 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 0.082 | 0 | 0 | 0.1 | 0.16359682 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 11.3 | 1 | 11.3 | 0.1 | 0.16359682 | 1.848644071 | 0.184864407 | 0.18 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 2.9 | 1 | 2.9 | 0.1 | 0.16359682 | 0.474430779 | 0.047443078 | 0.047 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 9.6 | 1 | 9.6 | 0.1 | 0.16359682 | 1.570529476 | 0.157052948 | 0.16 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 21.1 | 1 | 21.1 | 0.1 | 0.16359682 | 3.451892911 | 0.345189291 | 0.35 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 3.05 | 1 | 3.05 | 0.1 | 0.16359682 | 0.498970302 | 0.04989703 | 0.05 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 0.1 | 0.16359682 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 7.38 | 1 | 7.38 | 0.1 | 0.16359682 | 1.207344535 | 0.120734453 | 0.12 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 5.76 | 1 | 5.76 | 0.1 | 0.16359682 | 0.942317686 | 0.094231769 | 0.094 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 1.19 | 1 | 1.19 | 0.1 | 0.16359682 | 0.194680216 | 0.019468022 | 0.019 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 54.5 | 1 | 54.5 | 0.1 | 0.16359682 | 8.916026714 | 0.891602671 | 0.89 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 0.34 | 0 | 0 | 0.1 | 0.16359682 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 0.59 | 1 | 0.59 | 0.1 | 0.16359682 | 0.096522124 | 0.009652212 | 0.0097 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 2.5 | 1 | 2.5 | 0.1 | 0.16359682 | 0.408992051 | 0.040899205 | 0.041 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 1.6 | 1 | 1.6 | 0.1 | 0.16359682 | 0.261754913 | 0.026175491 | 0.026 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 49.65 | 1 | 49.65 | 0.1 | 0.16359682 | 8.122582135 | 0.812258214 | 0.81 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 0.1 | 0.16359682 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 13.5 | 1 | 13.5 | 0.1 | 0.16359682 | 2.208557076 | 0.220855708 | 0.22 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 3.4 | 0 | 0 | 0.1 | 0.16359682 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 10.355 | 1 | 10.355 | 0.1 | 0.16359682 | 1.694045076 | 0.169404508 | 0.17 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 0.1 | 0.16359682 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 4.61 | 0 | 0 | 0.1 | 0.16359682 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 30.9 | 1 | 30.9 | 0.1 | 0.16359682 | 5.055141752 | 0.505514175 | 0.51 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 20.9 | 1 | 20.9 | 0.1 | 0.16359682 | 3.419173547 | 0.341917355 | 0.34 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 10.9 | 1 | 10.9 | 0.1 | 0.16359682 | 1.783205343 | 0.178320534 | 0.18 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 10.4 | 1 | 10.4 | 0.1 | 0.16359682 | 1.701406933 | 0.170140693 | 0.17 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 10.3 | 1 | 10.3 | 0.1 | 0.16359682 | 1.685047251 | 0.168504725 | 0.17 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 86.7 | 1 | 86.7 | 0.1 | 0.16359682 | 14.18384433 | 1.418384433 | 1.4 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 5.54 | 1 | 5.54 | 0.1 | 0.16359682 | 0.906326385 | 0.090632639 | 0.091 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 7.37 | 1 | 7.37 | 0.1 | 0.16359682 | 1.205708567 | 0.120570857 | 0.12 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 14 | 1 | 14 | 0.1 | 0.16359682 | 2.290355486 | 0.229035549 | 0.23 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 27.9 | 1 | 27.9 | 0.1 | 0.16359682 | 4.56435129 | 0.456435129 | 0.46 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 16.3 | 1 | 16.3 | 0.1 | 0.16359682 | 2.666628173 | 0.266662817 | 0.27 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 27.3 | 1 | 27.3 | 0.1 | 0.16359682 | 4.466193198 | 0.44661932 | 0.45 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.055891729 | 0.966926917 | 0.290078075 | 0.29 | 43 | 1 | 43 | 0.1 | 0.046207519 | 1.986923308 | 0.198692331 | 0.2 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.055891729 | 0.290636992 | 0.087191098 | 0.087 | 10.7 | 1 | 10.7 | 0.1 | 0.046207519 | 0.494420451 | 0.049442045 | 0.049 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.055891729 | 0.368885414 | 0.110665624 | 0.11 | 19.9 | 1 | 19.9 | 0.1 | 0.046207519 | 0.919529624 | 0.091952962 | 0.092 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.055891729 | 1.363758195 | 0.409127459 | 0.41 | 57.5 | 1 | 57.5 | 0.1 | 0.046207519 | 2.656932331 | 0.265693233 | 0.27 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.055891729 | 0.916624361 | 0.274987308 | 0.27 | 37.2 | 1 | 37.2 | 0.1 | 0.046207519 | 1.718919699 | 0.17189197 | 0.17 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.055891729 | 0.681879098 | 0.204563729 | 0.2 | 26.4 | 1 | 26.4 | 0.1 | 0.046207519 | 1.219878496 | 0.12198785 | 0.12 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.055891729 | 0.776895038 | 0.233068511 | 0.23 | 33.2 | 1 | 33.2 | 0.1 | 0.046207519 | 1.534089624 | 0.153408962 | 0.15 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.055891729 | 0.091103519 | 0.027331056 | 0.027 | 4.19 | 1 | 4.19 | 0.1 | 0.046207519 | 0.193609504 | 0.01936095 | 0.019 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.055891729 | 1.184904662 | 0.355471398 | 0.36 | 43.9 | 1 | 43.9 | 0.1 | 0.046207519 | 2.028510075 | 0.202851008 | 0.2 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.055891729 | 0.866321805 | 0.259896541 | 0.26 | 35.2 | 1 | 35.2 | 0.1 | 0.046207519 | 1.626504662 | 0.162650466 | 0.16 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.055891729 | 0.548297865 | 0.164489359 | 0.16 | 23.3 | 1 | 23.3 | 0.1 | 0.046207519 | 1.076635188 | 0.107663519 | 0.11 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.055891729 | 0.592452331 | 0.177735699 | 0.18 | 24.3 | 1 | 24.3 | 0.1 | 0.046207519 | 1.122842707 | 0.112284271 | 0.11 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.055891729 | 0.816019248 | 0.244805774 | 0.24 | 32.2 | 1 | 32.2 | 0.1 | 0.046207519 | 1.487882105 | 0.148788211 | 0.15 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.055891729 | 0.866321805 | 0.259896541 | 0.26 | 31.8 | 1 | 31.8 | 0.1 | 0.046207519 | 1.469399098 | 0.14693991 | 0.15 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.055891729 | | | | | | | 0.1 | 0.046207519 | | | |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.055891729 | 0.532089263 | 0.159626779 | 0.16 | 23.7 | 1 | 23.7 | 0.1 | 0.046207519 | 1.095118195 | 0.10951182 | 0.11 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.055891729 | 0.386770767 | 0.11603123 | 0.12 | 17.7 | 1 | 17.7 | 0.1 | 0.046207519 | 0.817873083 | 0.081787308 | 0.082 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.055891729 | 0.228597173 | 0.068579152 | 0.069 | 10.1 | 1 | 10.1 | 0.1 | 0.046207519 | 0.46669594 | 0.046669594 | 0.047 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.055891729 | 0.224684752 | 0.067405426 | 0.067 | 9.06 | 1 | 9.06 | 0.1 | 0.046207519 | 0.41864012 | 0.041864012 | 0.042 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.055891729 | 1.497898346 | 0.449369504 | 0.45 | 59 | 1 | 59 | 0.1 | 0.046207519 | 2.726243609 | 0.272624361 | 0.27 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.055891729 | 0.43148415 | 0.129445245 | 0.13 | 10.1 | 1 | 10.1 | 0.1 | 0.046207519 | 0.46669594 | 0.046669594 | 0.047 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.055891729 | 0.320259609 | 0.096077883 | 0.096 | 12.8 | 1 | 12.8 | 0.1 | 0.046207519 | 0.591456241 | 0.059145624 | 0.059 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.055891729 | 0.614809023 | 0.184442707 | 0.18 | 21.8 | 1 | 21.8 | 0.1 | 0.046207519 | 1.00732391 | 0.100732391 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.055891729 | 0.319700692 | 0.095910208 | 0.096 | 12.8 | 1 | 12.8 | 0.1 | 0.046207519 | 0.591456241 | 0.059145624 | 0.059 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.055891729 | 0.570095639 | 0.171028692 | 0.17 | 18.3 | 1 | 18.3 | 0.1 | 0.046207519 | 0.845597594 | 0.084559759 | 0.085 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.055891729 | 1.587325113 | 0.476197534 | 0.48 | 49.2 | 1 | 49.2 | 0.1 | 0.046207519 | 2.273409925 | 0.227340992 | 0.23 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.055891729 | 0.709824962 | 0.212947489 | 0.21 | 22.4 | 1 | 22.4 | 0.1 | 0.046207519 | 1.035048421 | 0.103504842 | 0.1 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.055891729 | 0.950159398 | 0.28504782 | 0.29 | 42.3 | 1 | 42.3 | 0.1 | 0.046207519 | 1.954578045 | 0.195457805 | 0.2 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.055891729 | 1.196083008 | 0.358824902 | 0.36 | 44.4 | 1 | 44.4 | 0.1 | 0.046207519 | 2.051613835 | 0.205161383 | 0.21 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.055891729 | 0.356030316 | 0.106809095 | 0.11 | 13.9 | 1 | 13.9 | 0.1 | 0.046207519 | 0.642284511 | 0.064228451 | 0.064 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.055891729 | 0.637165714 | 0.191149714 | 0.19 | 26 | 1 | 26 | 0.1 | 0.046207519 | 1.201395489 | 0.120139549 | 0.12 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.055891729 | 0.709824962 | 0.212947489 | 0.21 | 30.2 | 1 | 30.2 | 0.1 | 0.046207519 | 1.395467068 | 0.139546707 | 0.14 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.055891729 | 0.438750075 | 0.131625023 | 0.13 | 14.9 | 1 | 14.9 | 0.1 | 0.046207519 | 0.68849203 | 0.068849203 | 0.069 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.055891729 | 0.93339188 | 0.280017564 | 0.28 | 40.4 | 1 | 40.4 | 0.1 | 0.046207519 | 1.866783759 | 0.186678376 | 0.19 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.055891729 | 0.444339248 | 0.133301774 | 0.13 | 17.7 | 1 | 17.7 | 0.1 | 0.046207519 | 0.817873083 | 0.081787308 | 0.082 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.055891729 | 1.02840782 | 0.308522346 | 0.31 | 47.6 | 1 | 47.6 | 0.1 | 0.046207519 | 2.199477895 | 0.219947789 | 0.22 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.055891729 | 1.061942857 | 0.318582857 | 0.32 | 39.45 | 1 | 39.45 | 0.1 | 0.046207519 | 1.822886617 | 0.182288662 | 0.18 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.055891729 | | | | | | | 0.1 | 0.046207519 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.055891729 | 0.938981053 | 0.281694316 | 0.28 | 41.1 | 1 | 41.1 | 0.1 | 0.046207519 | 1.899129023 | 0.189912902 | 0.19 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.055891729 | 0.631576541 | 0.189472962 | 0.19 | 29.3 | 1 | 29.3 | 0.1 | 0.046207519 | 1.353880301 | 0.13538803 | 0.14 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.055891729 | 1.330223158 | 0.399066947 | 0.4 | 55.7 | 1 | 55.7 | 0.1 | 0.046207519 | 2.573758797 | 0.25737588 | 0.26 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.055891729 | 1.442006617 | 0.432601985 | 0.43 | 51.5 | 1 | 51.5 | 0.1 | 0.046207519 | 2.379687218 | 0.237968722 | 0.24 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.055891729 | 1.598503459 | 0.479551038 | 0.48 | 51.7 | 1 | 51.7 | 0.1 | 0.046207519 | 2.388928722 | 0.238892872 | 0.24 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.055891729 | 0.228038256 | 0.068411477 | 0.068 | 12.7 | 1 | 12.7 | 0.1 | 0.046207519 | 0.586835489 | 0.058683549 | 0.059 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.055891729 | 1.956210526 | 0.586863158 | 0.59 | 183 | 1 | 183 | 0.1 | 0.046207519 | 8.45597594 | 0.845597594 | 0.85 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.055891729 | 1.084299549 | 0.325289865 | 0.33 | 43.7 | 1 | 43.7 | 0.1 | 0.046207519 | 2.019268571 | 0.201926857 | 0.2 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.055891729 | 0.316347188 | 0.094904156 | 0.095 | 16.1 | 1 | 16.1 | 0.1 | 0.046207519 | 0.743941053 | 0.074394105 | 0.074 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.055891729 | 0.443221414 | 0.132966424 | 0.13 | 25.4 | 1 | 25.4 | 0.1 | 0.046207519 | 1.173670977 | 0.117367098 | 0.12 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.055891729 | 1.71587609 | 0.514762827 | 0.51 | 29.6 | 1 | 29.6 | 0.1 | 0.046207519 | 1.367742556 | 0.136774256 | 0.14 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.055891729 | 1.106656241 | 0.331996872 | 0.33 | 42 | 1 | 42 | 0.1 | 0.046207519 | 1.940715789 | 0.194071579 | 0.19 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.055891729 | 0.603630677 | 0.181089203 | 0.18 | 35.5 | 1 | 35.5 | 0.1 | 0.046207519 | 1.640366917 | 0.164036692 | 0.16 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.055891729 | 0 | 0 | 0 | 6.63 | 0 | 0 | 0.1 | 0.046207519 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.055891729 | 0.603630677 | 0.181089203 | 0.18 | 28.6 | 1 | 28.6 | 0.1 | 0.046207519 | 1.321535038 | 0.132153504 | 0.13 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.055891729 | 4.119220451 | 1.235766135 | 1.2 | 120 | 1 | 120 | 0.1 | 0.046207519 | 5.544902256 | 0.554490226 | 0.55 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.055891729 | | | | | | | 0.1 | 0.046207519 | | | |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.055891729 | 0.423100391 | 0.126930117 | 0.13 | 32.5 | 1 | 32.5 | 0.1 | 0.046207519 | 1.501744361 | 0.150174436 | 0.15 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.055891729 | 0.552769203 | 0.165830761 | 0.17 | 40.6 | 1 | 40.6 | 0.1 | 0.046207519 | 1.876025263 | 0.187602526 | 0.19 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.055891729 | 0.297344 | 0.0892032 | 0.089 | 22.1 | 1 | 22.1 | 0.1 | 0.046207519 | 1.021186165 | 0.102118617 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.055891729 | 0.642754887 | 0.192826466 | 0.19 | 29.9 | 1 | 29.9 | 0.1 | 0.046207519 | 1.381604812 | 0.138160481 | 0.14 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.055891729 | 1.056353684 | 0.316906105 | 0.32 | 30 | 1 | 30 | 0.1 | 0.046207519 | 1.386225564 | 0.138622556 | 0.14 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.055891729 | 0.35938382 | 0.107815146 | 0.11 | 12.4 | 1 | 12.4 | 0.1 | 0.046207519 | 0.572973233 | 0.057297323 | 0.057 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.055891729 | 0.83837594 | 0.251512782 | 0.25 | 27.2 | 1 | 27.2 | 0.1 | 0.046207519 | 1.256844511 | 0.125684451 | 0.13 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.055891729 | 1.805302857 | 0.541590857 | 0.54 | 52.9 | 1 | 52.9 | 0.1 | 0.046207519 | 2.444377744 | 0.244437774 | 0.24 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.055891729 | 1.089888722 | 0.326966617 | 0.33 | 47.8 | 1 | 47.8 | 0.1 | 0.046207519 | 2.208719398 | 0.22087194 | 0.22 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.055891729 | 0.760127519 | 0.228038256 | 0.23 | 24.7 | 1 | 24.7 | 0.1 | 0.046207519 | 1.141325714 | 0.114132571 | 0.11 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.055891729 | 1.324633985 | 0.397390195 | 0.4 | 97.4 | 1 | 97.4 | 0.1 | 0.046207519 | 4.500612331 | 0.450061233 | 0.45 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.055891729 | 0.349882226 | 0.104964668 | 0.1 | 13 | 1 | 13 | 0.1 | 0.046207519 | 0.600697744 | 0.060069774 | 0.06 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.055891729 | 0.515880662 | 0.154764198 | 0.15 | 17.7 | 1 | 17.7 | 0.1 | 0.046207519 | 0.817873083 | 0.081787308 | 0.082 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.055891729 | 0 | 0 | 0 | 44 | 1 | 44 | 0.1 | 0.046207519 | 2.033130827 | 0.203313083 | 0.2 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.055891729 | 0.259896541 | 0.077968962 | 0.078 | 7.94 | 1 | 7.94 | 0.1 | 0.046207519 | 0.366887699 | 0.03668877 | 0.037 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.055891729 | 0.036888541 | 0.011066562 | 0.011 | 0.99 | 0 | 0 | 0.1 | 0.046207519 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.055891729 | 0.140288241 | 0.042086472 | 0.042 | 3.62 | 1 | 3.62 | 0.1 | 0.046207519 | 0.167271218 | 0.016727122 | 0.017 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.055891729 | 0 | 0 | 0 | 0.082 | 0 | 0 | 0.1 | 0.046207519 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.055891729 | 0.37782809 | 0.113348427 | 0.11 | 11.3 | 1 | 11.3 | 0.1 | 0.046207519 | 0.522144962 | 0.052214496 | 0.052 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.055891729 | 0.100605113 | 0.030181534 | 0.03 | 2.9 | 1 | 2.9 | 0.1 | 0.046207519 | 0.134001805 | 0.01340018 | 0.013 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.055891729 | 0 | 0 | 0 | 9.6 | 1 | 9.6 | 0.1 | 0.046207519 | 0.44359218 | 0.044359218 | 0.044 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.055891729 | 0.519793083 | 0.155937925 | 0.16 | 21.1 | 1 | 21.1 | 0.1 | 0.046207519 | 0.974978647 | 0.097497865 | 0.097 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.055891729 | 0.106194286 | 0.031858286 | 0.032 | 3.05 | 1 | 3.05 | 0.1 | 0.046207519 | 0.140932932 | 0.014093293 | 0.014 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.055891729 | | | | | | | 0.1 | 0.046207519 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.055891729 | 0.145318496 | 0.043595549 | 0.044 | 7.38 | 1 | 7.38 | 0.1 | 0.046207519 | 0.341011489 | 0.034101149 | 0.034 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.055891729 | 0.128550977 | 0.038565293 | 0.039 | 5.76 | 1 | 5.76 | 0.1 | 0.046207519 | 0.266155308 | 0.026615531 | 0.027 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.055891729 | 0 | 0 | 0 | 1.19 | 1 | 1.19 | 0.1 | 0.046207519 | 0.054986947 | 0.005498695 | 0.0055 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.055891729 | 0.760127519 | 0.228038256 | 0.23 | 54.5 | 1 | 54.5 | 0.1 | 0.046207519 | 2.518309774 | 0.251830977 | 0.25 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.055891729 | 0 | 0 | 0 | 0.34 | 0 | 0 | 0.1 | 0.046207519 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.055891729 | 0 | 0 | 0 | 0.59 | 1 | 0.59 | 0.1 | 0.046207519 | 0.027262436 | 0.002726244 | 0.0027 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.055891729 | 0.09501594 | 0.028504782 | 0.029 | 2.5 | 1 | 2.5 | 0.1 | 0.046207519 | 0.115518797 | 0.01155188 | 0.012 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.055891729 | 0.072659248 | 0.021797774 | 0.022 | 1.6 | 1 | 1.6 | 0.1 | 0.046207519 | 0.07393203 | 0.007393203 | 0.0074 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.055891729 | 1.495103759 | 0.448531128 | 0.45 | 49.65 | 1 | 49.65 | 0.1 | 0.046207519 | 2.294203308 | 0.229420331 | 0.23 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.055891729 | | | | | | | 0.1 | 0.046207519 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.055891729 | 0.447133835 | 0.13414015 | 0.13 | 13.5 | 1 | 13.5 | 0.1 | 0.046207519 | 0.623801504 | 0.06238015 | 0.062 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.055891729 | 0.098369444 | 0.029510833 | 0.03 | 3.4 | 0 | 0 | 0.1 | 0.046207519 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.055891729 | 0.110665624 | 0.033199687 | 0.033 | 10.355 | 1 | 10.355 | 0.1 | 0.046207519 | 0.478478857 | 0.047847886 | 0.048 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.055891729 | | | | | | | 0.1 | 0.046207519 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.055891729 | 0.262691128 | 0.078807338 | 0.079 | 4.61 | 0 | 0 | 0.1 | 0.046207519 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.055891729 | 0 | 0 | 0 | 30.9 | 1 | 30.9 | 0.1 | 0.046207519 | 1.427812331 | 0.142781233 | 0.14 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.055891729 | 1.017229474 | 0.305168842 | 0.31 | 20.9 | 1 | 20.9 | 0.1 | 0.046207519 | 0.965737143 | 0.096573714 | 0.097 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.055891729 | 0.257101955 | 0.077130586 | 0.077 | 10.9 | 1 | 10.9 | 0.1 | 0.046207519 | 0.503661955 | 0.050366195 | 0.05 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.055891729 | 0.223566917 | 0.067070075 | 0.067 | 10.4 | 1 | 10.4 | 0.1 | 0.046207519 | 0.480558195 | 0.04805582 | 0.048 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.055891729 | 0 | 0 | 0 | 10.3 | 1 | 10.3 | 0.1 | 0.046207519 | 0.475937444 | 0.047593744 | 0.048 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.055891729 | 2.073583158 | 0.622074947 | 0.62 | 86.7 | 1 | 86.7 | 0.1 | 0.046207519 | 4.00619188 | 0.400619188 | 0.4 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.055891729 | 0.177176782 | 0.053153035 | 0.053 | 5.54 | 1 | 5.54 | 0.1 | 0.046207519 | 0.255989654 | 0.025598965 | 0.026 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.055891729 | 0.215183158 | 0.064554947 | 0.065 | 7.37 | 1 | 7.37 | 0.1 | 0.046207519 | 0.340549414 | 0.034054941 | 0.034 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.055891729 | 0.405773955 | 0.121732186 | 0.12 | 14 | 1 | 14 | 0.1 | 0.046207519 | 0.646905263 | 0.064690526 | 0.065 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.055891729 | 0.899856842 | 0.269957053 | 0.27 | 27.9 | 1 | 27.9 | 0.1 | 0.046207519 | 1.289189774 | 0.128918977 | 0.13 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.055891729 | 0.473402947 | 0.142020884 | 0.14 | 16.3 | 1 | 16.3 | 0.1 | 0.046207519 | 0.753182556 | 0.075318256 | 0.075 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.055891729 | 0.581273985 | 0.174382195 | 0.17 | 27.3 | 1 | 27.3 | 0.1 | 0.046207519 | 1.261465263 | 0.126146526 | 0.13 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | 0.284968232 | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 114 | 1 | 114 | 0.1 | 0.284968232 | 32.4863784 | 3.24863784 | 3.2 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.65 | 1 | 0.65 | 0.1 | 0.284968232 | 0.185229351 | 0.018522935 | 0.019 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 16.5 | 1 | 16.5 | 0.1 | 0.284968232 | 4.701975821 | 0.470197582 | 0.47 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2.08 | 1 | 2.08 | 0.1 | 0.284968232 | 0.592733922 | 0.059273392 | 0.059 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | 0.284968232 | 0.39325616 | 0.039325616 | 0.039 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 3.58 | 1 | 3.58 | 0.1 | 0.284968232 | 1.020186269 | 0.102018627 | 0.1 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 18.4 | 1 | 18.4 | 0.1 | 0.284968232 | 5.24341546 | 0.524341546 | 0.52 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 10.6 | 1 | 10.6 | 0.1 | 0.284968232 | 3.020663254 | 0.302066325 | 0.3 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 9.21 | 1 | 9.21 | 0.1 | 0.284968232 | 2.624557413 | 0.262455741 | 0.26 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | 0.284968232 | | | |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | 0.284968232 | | | |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | 0.284968232 | | | |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | 0.284968232 | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.292467443 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | 0.954896821 | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 2.292467443 | 44.93236188 | 13.47970856 | 13 | 114 | 1 | 114 | 0.1 | 0.954896821 | 108.8582376 | 10.88582376 | 11 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2.292467443 | 0.641890884 | 0.192567265 | 0.19 | 0.65 | 1 | 0.65 | 0.1 | 0.954896821 | 0.620682934 | 0.062068293 | 0.062 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 2.292467443 | 29.34358327 | 8.803074981 | 8.8 | 16.5 | 1 | 16.5 | 0.1 | 0.954896821 | 15.75579754 | 1.575579754 | 1.6 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2.292467443 | 4.676633583 | 1.402990075 | 1.4 | 2.08 | 1 | 2.08 | 0.1 | 0.954896821 | 1.986185387 | 0.198618539 | 0.2 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.292467443 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | 0.954896821 | 1.317757613 | 0.131775761 | 0.13 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 2.292467443 | 7.083724398 | 2.12511732 | 2.1 | 3.58 | 1 | 3.58 | 0.1 | 0.954896821 | 3.418530619 | 0.341853062 | 0.34 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 2.292467443 | 29.80207676 | 8.940623027 | 8.9 | 18.4 | 1 | 18.4 | 0.1 | 0.954896821 | 17.5701015 | 1.75701015 | 1.8 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.292467443 | 13.29631117 | 3.988893351 | 4 | 10.6 | 1 | 10.6 | 0.1 | 0.954896821 | 10.1219063 | 1.01219063 | 1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.292467443 | 12.18446446 | 3.655339338 | 3.7 | 9.21 | 1 | 9.21 | 0.1 | 0.954896821 | 8.79459972 | 0.879459972 | 0.88 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 2.292467443 | | | | | | | 0.1 | 0.954896821 | | | |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 2.292467443 | | | | | | | 0.1 | 0.954896821 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 2.292467443 | | | | | | | 0.1 | 0.954896821 | | | |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2.292467443 | | | | | | | 0.1 | 0.954896821 | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.724844942 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.724844942 | 14.20696086 | 4.262088259 | 4.3 | 114 | 1 | 114 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.724844942 | 0.202956584 | 0.060886975 | 0.061 | 0.65 | 1 | 0.65 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.724844942 | 9.278015257 | 2.783404577 | 2.8 | 16.5 | 1 | 16.5 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.724844942 | 1.478683682 | 0.443605104 | 0.44 | 2.08 | 1 | 2.08 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.724844942 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.724844942 | 2.239770871 | 0.671931261 | 0.67 | 3.58 | 1 | 3.58 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.724844942 | 9.422984245 | 2.826895274 | 2.8 | 18.4 | 1 | 18.4 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.724844942 | 4.204100663 | 1.261230199 | 1.3 | 10.6 | 1 | 10.6 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.724844942 | 3.852550866 | 1.15576526 | 1.2 | 9.21 | 1 | 9.21 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.724844942 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.724844942 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.724844942 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.724844942 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | 0.444832071 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 114 | 1 | 114 | 0.1 | 0.444832071 | 50.7108561 | 5.07108561 | 5.1 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.65 | 1 | 0.65 | 0.1 | 0.444832071 | 0.289140846 | 0.028914085 | 0.029 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 16.5 | 1 | 16.5 | 0.1 | 0.444832071 | 7.339729172 | 0.733972917 | 0.73 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2.08 | 1 | 2.08 | 0.1 | 0.444832071 | 0.925250708 | 0.092525071 | 0.093 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | 0.444832071 | 0.613868258 | 0.061386826 | 0.061 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 3.58 | 1 | 3.58 | 0.1 | 0.444832071 | 1.592498814 | 0.159249881 | 0.16 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 18.4 | 1 | 18.4 | 0.1 | 0.444832071 | 8.184910107 | 0.818491011 | 0.82 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 10.6 | 1 | 10.6 | 0.1 | 0.444832071 | 4.715219953 | 0.471521995 | 0.47 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 9.21 | 1 | 9.21 | 0.1 | 0.444832071 | 4.096903374 | 0.409690337 | 0.41 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | 0.444832071 | | | |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | 0.444832071 | | | |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | 0.444832071 | | | |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | 0.444832071 | | | |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 8.151031584 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 8.151031584 | 159.760219 | 47.92806571 | 48 | 114 | 1 | 114 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 8.151031584 | 2.282288843 | 0.684686653 | 0.68 | 0.65 | 1 | 0.65 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 8.151031584 | 104.3332043 | 31.29996128 | 31 | 16.5 | 1 | 16.5 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 8.151031584 | 16.62810443 | 4.988431329 | 5 | 2.08 | 1 | 2.08 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 8.151031584 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 8.151031584 | 25.18668759 | 7.556006278 | 7.6 | 3.58 | 1 | 3.58 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 8.151031584 | 105.9634106 | 31.78902318 | 32 | 18.4 | 1 | 18.4 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 8.151031584 | 47.27598319 | 14.18279496 | 14 | 10.6 | 1 | 10.6 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 8.151031584 | 43.32273287 | 12.99681986 | 13 | 9.21 | 1 | 9.21 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 114 | 1 | 114 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.65 | 1 | 0.65 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 16.5 | 1 | 16.5 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2.08 | 1 | 2.08 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 3.58 | 1 | 3.58 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 18.4 | 1 | 18.4 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 10.6 | 1 | 10.6 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 9.21 | 1 | 9.21 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 114 | 1 | 114 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.65 | 1 | 0.65 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 16.5 | 1 | 16.5 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2.08 | 1 | 2.08 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 3.58 | 1 | 3.58 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 18.4 | 1 | 18.4 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 10.6 | 1 | 10.6 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 9.21 | 1 | 9.21 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1.254592876 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | 0.378395492 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 1.254592876 | 24.59002038 | 7.377006113 | 7.4 | 114 | 1 | 114 | 0.1 | 0.378395492 | 43.13708605 | 4.313708605 | 4.3 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 1.254592876 | 0.351286005 | 0.105385802 | 0.11 | 0.65 | 1 | 0.65 | 0.1 | 0.378395492 | 0.24595707 | 0.024595707 | 0.025 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.254592876 | 16.05878882 | 4.817636646 | 4.8 | 16.5 | 1 | 16.5 | 0.1 | 0.378395492 | 6.243525613 | 0.624352561 | 0.62 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 1.254592876 | 2.559369468 | 0.76781084 | 0.77 | 2.08 | 1 | 2.08 | 0.1 | 0.378395492 | 0.787062623 | 0.078706262 | 0.079 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.254592876 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | 0.378395492 | 0.522185779 | 0.052218578 | 0.052 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.254592876 | 3.876691988 | 1.163007596 | 1.2 | 3.58 | 1 | 3.58 | 0.1 | 0.378395492 | 1.35465586 | 0.135465586 | 0.14 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.254592876 | 16.30970739 | 4.892912218 | 4.9 | 18.4 | 1 | 18.4 | 0.1 | 0.378395492 | 6.962477047 | 0.696247705 | 0.7 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 1.254592876 | 7.276638683 | 2.182991605 | 2.2 | 10.6 | 1 | 10.6 | 0.1 | 0.378395492 | 4.010992212 | 0.401099221 | 0.4 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.254592876 | 6.668161138 | 2.000448341 | 2 | 9.21 | 1 | 9.21 | 0.1 | 0.378395492 | 3.485022478 | 0.348502248 | 0.35 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 1.254592876 | | | | | | | 0.1 | 0.378395492 | | | |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 1.254592876 | | | | | | | 0.1 | 0.378395492 | | | |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1.254592876 | | | | | | | 0.1 | 0.378395492 | | | |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 1.254592876 | | | | | | | 0.1 | 0.378395492 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 3.803951824 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | 0.325425826 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 3.803951824 | 74.55745575 | 22.36723672 | 22 | 114 | 1 | 114 | 0.1 | 0.325425826 | 37.09854419 | 3.709854419 | 3.7 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.803951824 | 1.065106511 | 0.319531953 | 0.32 | 0.65 | 1 | 0.65 | 0.1 | 0.325425826 | 0.211526787 | 0.021152679 | 0.021 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 3.803951824 | 48.69058334 | 14.607175 | 15 | 16.5 | 1 | 16.5 | 0.1 | 0.325425826 | 5.369526133 | 0.536952613 | 0.54 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.803951824 | 7.76006172 | 2.328018516 | 2.3 | 2.08 | 1 | 2.08 | 0.1 | 0.325425826 | 0.676885719 | 0.067688572 | 0.068 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 3.803951824 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | 0.325425826 | 0.44908764 | 0.044908764 | 0.045 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 3.803951824 | 11.75421114 | 3.526263341 | 3.5 | 3.58 | 1 | 3.58 | 0.1 | 0.325425826 | 1.165024458 | 0.116502446 | 0.12 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 3.803951824 | 49.45137371 | 14.83541211 | 15 | 18.4 | 1 | 18.4 | 0.1 | 0.325425826 | 5.987835203 | 0.59878352 | 0.6 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3.803951824 | 22.06292058 | 6.618876173 | 6.6 | 10.6 | 1 | 10.6 | 0.1 | 0.325425826 | 3.449513758 | 0.344951376 | 0.34 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3.803951824 | 20.21800394 | 6.065401183 | 6.1 | 9.21 | 1 | 9.21 | 0.1 | 0.325425826 | 2.99717186 | 0.299717186 | 0.3 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 3.803951824 | | | | | | | 0.1 | 0.325425826 | | | |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 3.803951824 | | | | | | | 0.1 | 0.325425826 | | | |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 3.803951824 | | | | | | | 0.1 | 0.325425826 | | | |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 3.803951824 | | | | | | | 0.1 | 0.325425826 | | | |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 6.948577029 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | 1.15890568 | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 6.948577029 | 136.1921098 | 40.85763293 | 41 | 114 | 1 | 114 | 0.1 | 1.15890568 | 132.1152475 | 13.21152475 | 13 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 6.948577029 | 1.945601568 | 0.58368047 | 0.58 | 0.65 | 1 | 0.65 | 0.1 | 1.15890568 | 0.753288692 | 0.075328869 | 0.075 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 6.948577029 | 88.94178598 | 26.68253579 | 27 | 16.5 | 1 | 16.5 | 0.1 | 1.15890568 | 19.12194372 | 1.912194372 | 1.9 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 6.948577029 | 14.17509714 | 4.252529142 | 4.3 | 2.08 | 1 | 2.08 | 0.1 | 1.15890568 | 2.410523814 | 0.241052381 | 0.24 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 6.948577029 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | 1.15890568 | 1.599289838 | 0.159928984 | 0.16 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 6.948577029 | 21.47110302 | 6.441330906 | 6.4 | 3.58 | 1 | 3.58 | 0.1 | 1.15890568 | 4.148882334 | 0.414888233 | 0.41 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.948577029 | 90.33150138 | 27.09945041 | 27 | 18.4 | 1 | 18.4 | 0.1 | 1.15890568 | 21.32386451 | 2.132386451 | 2.1 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 6.948577029 | 40.30174677 | 12.09052403 | 12 | 10.6 | 1 | 10.6 | 0.1 | 1.15890568 | 12.28440021 | 1.228440021 | 1.2 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 6.948577029 | 36.93168691 | 11.07950607 | 11 | 9.21 | 1 | 9.21 | 0.1 | 1.15890568 | 10.67352131 | 1.067352131 | 1.1 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 6.948577029 | | | | | | | 0.1 | 1.15890568 | | | |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 6.948577029 | | | | | | | 0.1 | 1.15890568 | | | |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 6.948577029 | | | | | | | 0.1 | 1.15890568 | | | |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6.948577029 | | | | | | | 0.1 | 1.15890568 | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 8.151031584 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 8.151031584 | 159.760219 | 47.92806571 | 48 | 114 | 1 | 114 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 8.151031584 | 2.282288843 | 0.684686653 | 0.68 | 0.65 | 1 | 0.65 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 8.151031584 | 104.3332043 | 31.29996128 | 31 | 16.5 | 1 | 16.5 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 8.151031584 | 16.62810443 | 4.988431329 | 5 | 2.08 | 1 | 2.08 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 8.151031584 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 8.151031584 | 25.18668759 | 7.556006278 | 7.6 | 3.58 | 1 | 3.58 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 8.151031584 | 105.9634106 | 31.78902318 | 32 | 18.4 | 1 | 18.4 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 8.151031584 | 47.27598319 | 14.18279496 | 14 | 10.6 | 1 | 10.6 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 8.151031584 | 43.32273287 | 12.99681986 | 13 | 9.21 | 1 | 9.21 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 37.1 | 1 | 37.1 | 0.1 | 0.167228944 | 6.204193811 | 0.620419381 | 0.62 | 1.07 | 0 | 0 | 0.1 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 5.59 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 | 0.494 | 0 | 0 | 0.1 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 52.7 | 1 | 52.7 | 0.1 | 0.167228944 | 8.812965333 | 0.881296533 | 0.88 | 1.02 | 0 | 0 | 0.1 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 12.9 | 1 | 12.9 | 0.1 | 0.167228944 | 2.157253374 | 0.215725337 | 0.22 | 1.08 | 1 | 1.08 | 0.1 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8.78 | 1 | 8.78 | 0.1 | 0.167228944 | 1.468270126 | 0.146827013 | 0.15 | 0.884 | 1 | 0.884 | 0.1 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 6.03 | 1 | 6.03 | 0.1 | 0.167228944 | 1.00839053 | 0.100839053 | 0.1 | 0.679 | 1 | 0.679 | 0.1 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 7.75 | 1 | 7.75 | 0.1 | 0.167228944 | 1.296024314 | 0.129602431 | 0.13 | 0.708 | 1 | 0.708 | 0.1 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.1 | 1 | 1.1 | 0.1 | 0.167228944 | 0.183951838 | 0.018395184 | 0.018 | 0.165 | 0 | 0 | 0.1 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 9.86 | 1 | 9.86 | 0.1 | 0.167228944 | 1.648877385 | 0.164887738 | 0.16 | 1.08 | 1 | 1.08 | 0.1 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7.31 | 1 | 7.31 | 0.1 | 0.167228944 | 1.222443578 | 0.122244358 | 0.12 | 0.825 | 1 | 0.825 | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 5.34 | 1 | 5.34 | 0.1 | 0.167228944 | 0.893002559 | 0.089300256 | 0.089 | 0.59 | 0 | 0 | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 5.05 | 1 | 5.05 | 0.1 | 0.167228944 | 0.844506166 | 0.084450617 | 0.084 | 0.46 | 0 | 0 | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7.68 | 1 | 7.68 | 0.1 | 0.167228944 | 1.284318288 | 0.128431829 | 0.13 | 0.96 | 1 | 0.96 | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7.35 | 1 | 7.35 | 0.1 | 0.167228944 | 1.229132736 | 0.122913274 | 0.12 | 0.81 | 1 | 0.81 | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.1 | 0.167228944 | | | | | | | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 6.45 | 1 | 6.45 | 0.1 | 0.167228944 | 1.078626687 | 0.107862669 | 0.11 | 0.61 | 1 | 0.61 | 0.1 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 4.31 | 1 | 4.31 | 0.1 | 0.167228944 | 0.720756747 | 0.072075675 | 0.072 | 0.422 | 1 | 0.422 | 0.1 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.33 | 1 | 2.33 | 0.1 | 0.167228944 | 0.389643439 | 0.038964344 | 0.039 | 0.315 | 1 | 0.315 | 0.1 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.17 | 1 | 2.17 | 0.1 | 0.167228944 | 0.362886808 | 0.036288681 | 0.036 | 0.326 | 1 | 0.326 | 0.1 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 14.2 | 1 | 14.2 | 0.1 | 0.167228944 | 2.374651 | 0.2374651 | 0.24 | 1.12 | 1 | 1.12 | 0.1 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3.35 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 | 0.43 | 1 | 0.43 | 0.1 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.3 | 1 | 3.3 | 0.1 | 0.167228944 | 0.551855514 | 0.055185551 | 0.055 | 0.398 | 1 | 0.398 | 0.1 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 5.51 | 1 | 5.51 | 0.1 | 0.167228944 | 0.92143148 | 0.092143148 | 0.092 | 0.813 | 1 | 0.813 | 0.1 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 31.1 | 1 | 31.1 | 0.1 | 0.167228944 | 5.200820149 | 0.520082015 | 0.52 | 1.08 | 0 | 0 | 0.1 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 17.2 | 1 | 17.2 | 0.1 | 0.167228944 | 2.876337832 | 0.287633783 | 0.29 | 1.28 | 0 | 0 | 0.1 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 94.6 | 1 | 94.6 | 0.1 | 0.167228944 | 15.81985807 | 1.581985807 | 1.6 | 2.46 | 0 | 0 | 0.1 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 14.6 | 1 | 14.6 | 0.1 | 0.167228944 | 2.441542578 | 0.244154258 | 0.24 | 1.08 | 0 | 0 | 0.1 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 29.3 | 1 | 29.3 | 0.1 | 0.167228944 | 4.89980805 | 0.489980805 | 0.49 | 1.31 | 0 | 0 | 0.1 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 18.6 | 1 | 18.6 | 0.1 | 0.167228944 | 3.110458353 | 0.311045835 | 0.31 | 1.09 | 1 | 1.09 | 0.1 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 4.15 | 1 | 4.15 | 0.1 | 0.167228944 | 0.694000116 | 0.069400012 | 0.069 | 0.573 | 0 | 0 | 0.1 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 6.93 | 1 | 6.93 | 0.1 | 0.167228944 | 1.15889658 | 0.115889658 | 0.12 | 0.656 | 1 | 0.656 | 0.1 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 8.76 | 1 | 8.76 | 0.1 | 0.167228944 | 1.464925547 | 0.146492555 | 0.15 | 0.704 | 1 | 0.704 | 0.1 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 24.8 | 1 | 24.8 | 0.1 | 0.167228944 | 4.147277804 | 0.41472778 | 0.41 | 1.02 | 0 | 0 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 9.33 | 1 | 9.33 | 0.1 | 0.167228944 | 1.560246045 | 0.156024604 | 0.16 | 0.933 | 1 | 0.933 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 6.65 | 1 | 6.65 | 0.1 | 0.167228944 | 1.112072476 | 0.111207248 | 0.11 | 0.475 | 0 | 0 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9.34 | 1 | 9.34 | 0.1 | 0.167228944 | 1.561918334 | 0.156191833 | 0.16 | 0.912 | 1 | 0.912 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 8.57 | 1 | 8.57 | 0.1 | 0.167228944 | 1.433152047 | 0.143315205 | 0.14 | 0.8525 | 1 | 0.8525 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.1 | 0.167228944 | | | | | | | 0.1 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9.8 | 1 | 9.8 | 0.1 | 0.167228944 | 1.638843648 | 0.163884365 | 0.16 | 0.887 | 1 | 0.887 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 7.52 | 1 | 7.52 | 0.1 | 0.167228944 | 1.257561657 | 0.125756166 | 0.13 | 0.599 | 0 | 0 | 0.1 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 13.7 | 1 | 13.7 | 0.1 | 0.167228944 | 2.291036529 | 0.229103653 | 0.23 | 1.17 | 1 | 1.17 | 0.1 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 37.9 | 1 | 37.9 | 0.1 | 0.167228944 | 6.337976966 | 0.633797697 | 0.63 | 1.98 | 0 | 0 | 0.1 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 12.7 | 1 | 12.7 | 0.1 | 0.167228944 | 2.123807585 | 0.212380758 | 0.21 | 1.31 | 1 | 1.31 | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 76.3 | 1 | 76.3 | 0.1 | 0.167228944 | 12.7595684 | 1.27595684 | 1.3 | 0.505 | 0 | 0 | 0.1 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 22 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 | 1.83 | 1 | 1.83 | 0.1 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 70.7 | 1 | 70.7 | 0.1 | 0.167228944 | 11.82308632 | 1.182308632 | 1.2 | 2.33 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 88.2 | 1 | 88.2 | 0.1 | 0.167228944 | 14.74959283 | 1.474959283 | 1.5 | 2.11 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 63.5 | 1 | 63.5 | 0.1 | 0.167228944 | 10.61903792 | 1.061903792 | 1.1 | 1.77 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 8.67 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 | 0.869 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 23.9 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 | 1.44 | 1 | 1.44 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 146 | 1 | 146 | 0.1 | 0.167228944 | 24.41542578 | 2.441542578 | 2.4 | 2.01 | 0 | 0 | 0.1 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 30.2 | 1 | 30.2 | 0.1 | 0.167228944 | 5.0503141 | 0.50503141 | 0.51 | 6.71 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 32.9 | 1 | 32.9 | 0.1 | 0.167228944 | 5.501832248 | 0.550183225 | 0.55 | 0.822 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 43.3 | 1 | 43.3 | 0.1 | 0.167228944 | 7.241013262 | 0.724101326 | 0.72 | 4.58 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.1 | 0.167228944 | | | | | | | 0.1 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 75 | 1 | 75 | 0.1 | 0.167228944 | 12.54217078 | 1.254217078 | 1.3 | 2.01 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 129 | 1 | 129 | 0.1 | 0.167228944 | 21.57253374 | 2.157253374 | 2.2 | 1.9 | 0 | 0 | 0.1 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 58.2 | 1 | 58.2 | 0.1 | 0.167228944 | 9.732724523 | 0.973272452 | 0.97 | 0.686 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 77.4 | 1 | 77.4 | 0.1 | 0.167228944 | 12.94352024 | 1.294352024 | 1.3 | 1.19 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 15.6 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 | 2.77 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 37.8 | 1 | 37.8 | 0.1 | 0.167228944 | 6.321254072 | 0.632125407 | 0.63 | 1.07 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 12.3 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 | 1.39 | 0 | 0 | 0.1 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 168 | 1 | 168 | 0.1 | 0.167228944 | 28.09446254 | 2.809446254 | 2.8 | 2.44 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 193 | 1 | 193 | 0.1 | 0.167228944 | 32.27518613 | 3.227518613 | 3.2 | 2.47 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 14.5 | 1 | 14.5 | 0.1 | 0.167228944 | 2.424819684 | 0.242481968 | 0.24 | 2.36 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 372 | 1 | 372 | 0.1 | 0.167228944 | 62.20916705 | 6.220916705 | 6.2 | 4.57 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 66.6 | 1 | 66.6 | 0.1 | 0.167228944 | 11.13744765 | 1.113744765 | 1.1 | 0.769 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4.61 | 1 | 4.61 | 0.1 | 0.167228944 | 0.77092543 | 0.077092543 | 0.077 | 0.463 | 1 | 0.463 | 0.1 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 212 | 1 | 212 | 0.1 | 0.167228944 | 35.45253606 | 3.545253606 | 3.5 | 2.42 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 12 | 1 | 12 | 0.1 | 0.167228944 | 2.006747324 | 0.200674732 | 0.2 | 0.58 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1.6 | 1 | 1.6 | 0.1 | 0.167228944 | 0.26756631 | 0.026756631 | 0.027 | 0.19 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1.12 | 1 | 1.12 | 0.1 | 0.167228944 | 0.187296417 | 0.018729642 | 0.019 | 0.18 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.25 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 4.61 | 1 | 4.61 | 0.1 | 0.167228944 | 0.77092543 | 0.077092543 | 0.077 | 0.59 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 11.1 | 1 | 11.1 | 0.1 | 0.167228944 | 1.856241275 | 0.185624128 | 0.19 | 0.247 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 63.4 | 1 | 63.4 | 0.1 | 0.167228944 | 10.60231503 | 1.060231503 | 1.1 | 0.9 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 64.1 | 1 | 64.1 | 0.1 | 0.167228944 | 10.71937529 | 1.071937529 | 1.1 | 1.17 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 9.5 | 1 | 9.5 | 0.1 | 0.167228944 | 1.588674965 | 0.158867497 | 0.16 | 0.174 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.1 | 0.167228944 | | | | | | | 0.1 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 64.6 | 1 | 64.6 | 0.1 | 0.167228944 | 10.80298976 | 1.080298976 | 1.1 | 1.2 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 17.8 | 1 | 17.8 | 0.1 | 0.167228944 | 2.976675198 | 0.29766752 | 0.3 | 0.37 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 10.5 | 1 | 10.5 | 0.1 | 0.167228944 | 1.755903909 | 0.175590391 | 0.18 | 0.62 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 365 | 1 | 365 | 0.1 | 0.167228944 | 61.03856445 | 6.103856445 | 6.1 | 4.4 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1.26 | 1 | 1.26 | 0.1 | 0.167228944 | 0.210708469 | 0.021070847 | 0.021 | 0.28 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 3.31 | 1 | 3.31 | 0.1 | 0.167228944 | 0.553527804 | 0.05535278 | 0.055 | 0.3 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1.88 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 | 0.2 | 0 | 0 | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.986 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 | 0.121 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 195.15 | 1 | 195.15 | 0.1 | 0.167228944 | 32.63472836 | 3.263472836 | 3.3 | 2.665 | 1 | 2.665 | 0.1 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.1 | 0.167228944 | | | | | | | 0.1 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 116 | 1 | 116 | 0.1 | 0.167228944 | 19.39855747 | 1.939855747 | 1.9 | 1.3 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 41.5 | 1 | 41.5 | 0.1 | 0.167228944 | 6.940001163 | 0.694000116 | 0.69 | 1.1 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 115.5 | 1 | 115.5 | 0.1 | 0.167228944 | 19.314943 | 1.9314943 | 1.9 | 2 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.1 | 0.167228944 | | | | | | | 0.1 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 64.5 | 1 | 64.5 | 0.1 | 0.167228944 | 10.78626687 | 1.078626687 | 1.1 | 0.741 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 258 | 1 | 258 | 0.1 | 0.167228944 | 43.14506747 | 4.314506747 | 4.3 | 4.13 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 10.5 | 1 | 10.5 | 0.1 | 0.167228944 | 1.755903909 | 0.175590391 | 0.18 | 1 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 73.9 | 1 | 73.9 | 0.1 | 0.167228944 | 12.35821894 | 1.235821894 | 1.2 | 1.02 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 58.8 | 1 | 58.8 | 0.1 | 0.167228944 | 9.833061889 | 0.983306189 | 0.98 | 0.495 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 52.1 | 1 | 52.1 | 0.1 | 0.167228944 | 8.712627966 | 0.871262797 | 0.87 | 0.567 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 21.8 | 1 | 21.8 | 0.1 | 0.167228944 | 3.645590973 | 0.364559097 | 0.36 | 1.41 | 1 | 1.41 | 0.1 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.4 | 1 | 1.4 | 0.1 | 0.167228944 | 0.234120521 | 0.023412052 | 0.023 | 0.223 | 1 | 0.223 | 0.1 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.36 | 1 | 2.36 | 0.1 | 0.167228944 | 0.394660307 | 0.039466031 | 0.039 | 0.32 | 1 | 0.32 | 0.1 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3.91 | 1 | 3.91 | 0.1 | 0.167228944 | 0.65386517 | 0.065386517 | 0.065 | 0.519 | 1 | 0.519 | 0.1 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 11 | 1 | 11 | 0.1 | 0.167228944 | 1.839518381 | 0.183951838 | 0.18 | 0.96 | 1 | 0.96 | 0.1 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 4.35 | 1 | 4.35 | 0.1 | 0.167228944 | 0.727445905 | 0.072744591 | 0.073 | 0.425 | 1 | 0.425 | 0.1 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 9.33 | 1 | 9.33 | 0.1 | 0.167228944 | 1.560246045 | 0.156024604 | 0.16 | 0.618 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 37.1 | 1 | 37.1 | 0.1 | 0.085836273 | 3.184525741 | 0.318452574 | 0.32 | 1.07 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 5.59 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 | 0.494 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 52.7 | 1 | 52.7 | 0.1 | 0.085836273 | 4.523571605 | 0.45235716 | 0.45 | 1.02 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 12.9 | 1 | 12.9 | 0.1 | 0.085836273 | 1.107287926 | 0.110728793 | 0.11 | 1.08 | 1 | 1.08 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8.78 | 1 | 8.78 | 0.1 | 0.085836273 | 0.75364248 | 0.075364248 | 0.075 | 0.884 | 1 | 0.884 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 6.03 | 1 | 6.03 | 0.1 | 0.085836273 | 0.517592728 | 0.051759273 | 0.052 | 0.679 | 1 | 0.679 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 7.75 | 1 | 7.75 | 0.1 | 0.085836273 | 0.665231118 | 0.066523112 | 0.067 | 0.708 | 1 | 0.708 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.1 | 1 | 1.1 | 0.1 | 0.085836273 | 0.094419901 | 0.00944199 | 0.0094 | 0.165 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 9.86 | 1 | 9.86 | 0.1 | 0.085836273 | 0.846345655 | 0.084634566 | 0.085 | 1.08 | 1 | 1.08 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7.31 | 1 | 7.31 | 0.1 | 0.085836273 | 0.627463158 | 0.062746316 | 0.063 | 0.825 | 1 | 0.825 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 5.34 | 1 | 5.34 | 0.1 | 0.085836273 | 0.4583657 | 0.04583657 | 0.046 | 0.59 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 5.05 | 1 | 5.05 | 0.1 | 0.085836273 | 0.43347318 | 0.043347318 | 0.043 | 0.46 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7.68 | 1 | 7.68 | 0.1 | 0.085836273 | 0.659222579 | 0.065922258 | 0.066 | 0.96 | 1 | 0.96 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7.35 | 1 | 7.35 | 0.1 | 0.085836273 | 0.630896609 | 0.063089661 | 0.063 | 0.81 | 1 | 0.81 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.1 | 0.085836273 | | | | | | | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 6.45 | 1 | 6.45 | 0.1 | 0.085836273 | 0.553643963 | 0.055364396 | 0.055 | 0.61 | 1 | 0.61 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 4.31 | 1 | 4.31 | 0.1 | 0.085836273 | 0.369954338 | 0.036995434 | 0.037 | 0.422 | 1 | 0.422 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.33 | 1 | 2.33 | 0.1 | 0.085836273 | 0.199998517 | 0.019999852 | 0.02 | 0.315 | 1 | 0.315 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.17 | 1 | 2.17 | 0.1 | 0.085836273 | 0.186264713 | 0.018626471 | 0.019 | 0.326 | 1 | 0.326 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 14.2 | 1 | 14.2 | 0.1 | 0.085836273 | 1.218875081 | 0.121887508 | 0.12 | 1.12 | 1 | 1.12 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3.35 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 | 0.43 | 1 | 0.43 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.3 | 1 | 3.3 | 0.1 | 0.085836273 | 0.283259702 | 0.02832597 | 0.028 | 0.398 | 1 | 0.398 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 5.51 | 1 | 5.51 | 0.1 | 0.085836273 | 0.472957866 | 0.047295787 | 0.047 | 0.813 | 1 | 0.813 | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 31.1 | 1 | 31.1 | 0.1 | 0.085836273 | 2.669508101 | 0.26695081 | 0.27 | 1.08 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 17.2 | 1 | 17.2 | 0.1 | 0.085836273 | 1.476383901 | 0.14763839 | 0.15 | 1.28 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 94.6 | 1 | 94.6 | 0.1 | 0.085836273 | 8.120111457 | 0.812011146 | 0.81 | 2.46 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 14.6 | 1 | 14.6 | 0.1 | 0.085836273 | 1.253209591 | 0.125320959 | 0.13 | 1.08 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 29.3 | 1 | 29.3 | 0.1 | 0.085836273 | 2.515002809 | 0.251500281 | 0.25 | 1.31 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 18.6 | 1 | 18.6 | 0.1 | 0.085836273 | 1.596554684 | 0.159655468 | 0.16 | 1.09 | 1 | 1.09 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 4.15 | 1 | 4.15 | 0.1 | 0.085836273 | 0.356220534 | 0.035622053 | 0.036 | 0.573 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 6.93 | 1 | 6.93 | 0.1 | 0.085836273 | 0.594845374 | 0.059484537 | 0.059 | 0.656 | 1 | 0.656 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 8.76 | 1 | 8.76 | 0.1 | 0.085836273 | 0.751925754 | 0.075192575 | 0.075 | 0.704 | 1 | 0.704 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 24.8 | 1 | 24.8 | 0.1 | 0.085836273 | 2.128739579 | 0.212873958 | 0.21 | 1.02 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 9.33 | 1 | 9.33 | 0.1 | 0.085836273 | 0.80085243 | 0.080085243 | 0.08 | 0.933 | 1 | 0.933 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 6.65 | 1 | 6.65 | 0.1 | 0.085836273 | 0.570811218 | 0.057081122 | 0.057 | 0.475 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9.34 | 1 | 9.34 | 0.1 | 0.085836273 | 0.801710793 | 0.080171079 | 0.08 | 0.912 | 1 | 0.912 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 8.57 | 1 | 8.57 | 0.1 | 0.085836273 | 0.735616862 | 0.073561686 | 0.074 | 0.8525 | 1 | 0.8525 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.1 | 0.085836273 | | | | | | | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9.8 | 1 | 9.8 | 0.1 | 0.085836273 | 0.841195479 | 0.084119548 | 0.084 | 0.887 | 1 | 0.887 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 7.52 | 1 | 7.52 | 0.1 | 0.085836273 | 0.645488775 | 0.064548878 | 0.065 | 0.599 | 0 | 0 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 13.7 | 1 | 13.7 | 0.1 | 0.085836273 | 1.175956945 | 0.117595694 | 0.12 | 1.17 | 1 | 1.17 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 37.9 | 1 | 37.9 | 0.1 | 0.085836273 | 3.253194759 | 0.325319476 | 0.33 | 1.98 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 12.7 | 1 | 12.7 | 0.1 | 0.085836273 | 1.090120671 | 0.109012067 | 0.11 | 1.31 | 1 | 1.31 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 76.3 | 1 | 76.3 | 0.1 | 0.085836273 | 6.549307655 | 0.654930766 | 0.65 | 0.505 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 22 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 | 1.83 | 1 | 1.83 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 70.7 | 1 | 70.7 | 0.1 | 0.085836273 | 6.068624525 | 0.606862452 | 0.61 | 2.33 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 88.2 | 1 | 88.2 | 0.1 | 0.085836273 | 7.570759308 | 0.757075931 | 0.76 | 2.11 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 63.5 | 1 | 63.5 | 0.1 | 0.085836273 | 5.450603357 | 0.545060336 | 0.55 | 1.77 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 8.67 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 | 0.869 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 23.9 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 | 1.44 | 1 | 1.44 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 146 | 1 | 146 | 0.1 | 0.085836273 | 12.53209591 | 1.253209591 | 1.3 | 2.01 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 30.2 | 1 | 30.2 | 0.1 | 0.085836273 | 2.592255455 | 0.259225545 | 0.26 | 6.71 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 32.9 | 1 | 32.9 | 0.1 | 0.085836273 | 2.824013393 | 0.282401339 | 0.28 | 0.822 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 43.3 | 1 | 43.3 | 0.1 | 0.085836273 | 3.716710635 | 0.371671064 | 0.37 | 4.58 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.1 | 0.085836273 | | | | | | | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 75 | 1 | 75 | 0.1 | 0.085836273 | 6.4377205 | 0.64377205 | 0.64 | 2.01 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 129 | 1 | 129 | 0.1 | 0.085836273 | 11.07287926 | 1.107287926 | 1.1 | 1.9 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 58.2 | 1 | 58.2 | 0.1 | 0.085836273 | 4.995671108 | 0.499567111 | 0.5 | 0.686 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 77.4 | 1 | 77.4 | 0.1 | 0.085836273 | 6.643727556 | 0.664372756 | 0.66 | 1.19 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 15.6 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 | 2.77 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 37.8 | 1 | 37.8 | 0.1 | 0.085836273 | 3.244611132 | 0.324461113 | 0.32 | 1.07 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 12.3 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 | 1.39 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 168 | 1 | 168 | 0.1 | 0.085836273 | 14.42049392 | 1.442049392 | 1.4 | 2.44 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 193 | 1 | 193 | 0.1 | 0.085836273 | 16.56640075 | 1.656640075 | 1.7 | 2.47 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 14.5 | 1 | 14.5 | 0.1 | 0.085836273 | 1.244625963 | 0.124462596 | 0.12 | 2.36 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 372 | 1 | 372 | 0.1 | 0.085836273 | 31.93109368 | 3.193109368 | 3.2 | 4.57 | 0 | 0 | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 66.6 | 1 | 66.6 | 0.1 | 0.085836273 | 5.716695804 | 0.57166958 | 0.57 | 0.769 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4.61 | 1 | 4.61 | 0.1 | 0.085836273 | 0.39570522 | 0.039570522 | 0.04 | 0.463 | 1 | 0.463 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 212 | 1 | 212 | 0.1 | 0.085836273 | 18.19728995 | 1.819728995 | 1.8 | 2.42 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 12 | 1 | 12 | 0.1 | 0.085836273 | 1.03003528 | 0.103003528 | 0.1 | 0.58 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1.6 | 1 | 1.6 | 0.1 | 0.085836273 | 0.137338037 | 0.013733804 | 0.014 | 0.19 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1.12 | 1 | 1.12 | 0.1 | 0.085836273 | 0.096136626 | 0.009613663 | 0.0096 | 0.18 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.25 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 4.61 | 1 | 4.61 | 0.1 | 0.085836273 | 0.39570522 | 0.039570522 | 0.04 | 0.59 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 11.1 | 1 | 11.1 | 0.1 | 0.085836273 | 0.952782634 | 0.095278263 | 0.095 | 0.247 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 63.4 | 1 | 63.4 | 0.1 | 0.085836273 | 5.442019729 | 0.544201973 | 0.54 | 0.9 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 64.1 | 1 | 64.1 | 0.1 | 0.085836273 | 5.502105121 | 0.550210512 | 0.55 | 1.17 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 9.5 | 1 | 9.5 | 0.1 | 0.085836273 | 0.815444597 | 0.08154446 | 0.082 | 0.174 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.1 | 0.085836273 | | | | | | | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 64.6 | 1 | 64.6 | 0.1 | 0.085836273 | 5.545023257 | 0.554502326 | 0.55 | 1.2 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 17.8 | 1 | 17.8 | 0.1 | 0.085836273 | 1.527885665 | 0.152788567 | 0.15 | 0.37 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 10.5 | 1 | 10.5 | 0.1 | 0.085836273 | 0.90128087 | 0.090128087 | 0.09 | 0.62 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 365 | 1 | 365 | 0.1 | 0.085836273 | 31.33023977 | 3.133023977 | 3.1 | 4.4 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1.26 | 1 | 1.26 | 0.1 | 0.085836273 | 0.108153704 | 0.01081537 | 0.011 | 0.28 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 3.31 | 1 | 3.31 | 0.1 | 0.085836273 | 0.284118065 | 0.028411806 | 0.028 | 0.3 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1.88 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 | 0.2 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.986 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 | 0.121 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 195.15 | 1 | 195.15 | 0.1 | 0.085836273 | 16.75094874 | 1.675094874 | 1.7 | 2.665 | 1 | 2.665 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.1 | 0.085836273 | | | | | | | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 116 | 1 | 116 | 0.1 | 0.085836273 | 9.957007707 | 0.995700771 | 1 | 1.3 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 41.5 | 1 | 41.5 | 0.1 | 0.085836273 | 3.562205343 | 0.356220534 | 0.36 | 1.1 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 115.5 | 1 | 115.5 | 0.1 | 0.085836273 | 9.91408957 | 0.991408957 | 0.99 | 2 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.1 | 0.085836273 | | | | | | | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 64.5 | 1 | 64.5 | 0.1 | 0.085836273 | 5.53643963 | 0.553643963 | 0.55 | 0.741 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 258 | 1 | 258 | 0.1 | 0.085836273 | 22.14575852 | 2.214575852 | 2.2 | 4.13 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 10.5 | 1 | 10.5 | 0.1 | 0.085836273 | 0.90128087 | 0.090128087 | 0.09 | 1 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 73.9 | 1 | 73.9 | 0.1 | 0.085836273 | 6.343300599 | 0.63433006 | 0.63 | 1.02 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 58.8 | 1 | 58.8 | 0.1 | 0.085836273 | 5.047172872 | 0.504717287 | 0.5 | 0.495 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 52.1 | 1 | 52.1 | 0.1 | 0.085836273 | 4.472069841 | 0.447206984 | 0.45 | 0.567 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 21.8 | 1 | 21.8 | 0.1 | 0.085836273 | 1.871230759 | 0.187123076 | 0.19 | 1.41 | 1 | 1.41 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.4 | 1 | 1.4 | 0.1 | 0.085836273 | 0.120170783 | 0.012017078 | 0.012 | 0.223 | 1 | 0.223 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.36 | 1 | 2.36 | 0.1 | 0.085836273 | 0.202573605 | 0.020257361 | 0.02 | 0.32 | 1 | 0.32 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3.91 | 1 | 3.91 | 0.1 | 0.085836273 | 0.335619829 | 0.033561983 | 0.034 | 0.519 | 1 | 0.519 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 11 | 1 | 11 | 0.1 | 0.085836273 | 0.944199007 | 0.094419901 | 0.094 | 0.96 | 1 | 0.96 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 4.35 | 1 | 4.35 | 0.1 | 0.085836273 | 0.373387789 | 0.037338779 | 0.037 | 0.425 | 1 | 0.425 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 9.33 | 1 | 9.33 | 0.1 | 0.085836273 | 0.80085243 | 0.080085243 | 0.08 | 0.618 | 0 | 0 | 0.1 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 37.1 | 1 | 37.1 | 0.1 | 0.060733835 | 2.253225263 | 0.225322526 | 0.23 | 1.07 | 0 | 0 | 0.1 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 5.59 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 | 0.494 | 0 | 0 | 0.1 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 52.7 | 1 | 52.7 | 0.1 | 0.060733835 | 3.200673083 | 0.320067308 | 0.32 | 1.02 | 0 | 0 | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 12.9 | 1 | 12.9 | 0.1 | 0.060733835 | 0.783466466 | 0.078346647 | 0.078 | 1.08 | 1 | 1.08 | 0.1 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8.78 | 1 | 8.78 | 0.1 | 0.060733835 | 0.533243068 | 0.053324307 | 0.053 | 0.884 | 1 | 0.884 | 0.1 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 6.03 | 1 | 6.03 | 0.1 | 0.060733835 | 0.366225023 | 0.036622502 | 0.037 | 0.679 | 1 | 0.679 | 0.1 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 7.75 | 1 | 7.75 | 0.1 | 0.060733835 | 0.470687218 | 0.047068722 | 0.047 | 0.708 | 1 | 0.708 | 0.1 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.1 | 1 | 1.1 | 0.1 | 0.060733835 | 0.066807218 | 0.006680722 | 0.0067 | 0.165 | 0 | 0 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 9.86 | 1 | 9.86 | 0.1 | 0.060733835 | 0.598835609 | 0.059883561 | 0.06 | 1.08 | 1 | 1.08 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7.31 | 1 | 7.31 | 0.1 | 0.060733835 | 0.443964331 | 0.044396433 | 0.044 | 0.825 | 1 | 0.825 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 5.34 | 1 | 5.34 | 0.1 | 0.060733835 | 0.324318677 | 0.032431868 | 0.032 | 0.59 | 0 | 0 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 5.05 | 1 | 5.05 | 0.1 | 0.060733835 | 0.306705865 | 0.030670586 | 0.031 | 0.46 | 0 | 0 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7.68 | 1 | 7.68 | 0.1 | 0.060733835 | 0.46643585 | 0.046643585 | 0.047 | 0.96 | 1 | 0.96 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7.35 | 1 | 7.35 | 0.1 | 0.060733835 | 0.446393684 | 0.044639368 | 0.045 | 0.81 | 1 | 0.81 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.1 | 0.060733835 | | | | | | | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 6.45 | 1 | 6.45 | 0.1 | 0.060733835 | 0.391733233 | 0.039173323 | 0.039 | 0.61 | 1 | 0.61 | 0.1 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 4.31 | 1 | 4.31 | 0.1 | 0.060733835 | 0.261762827 | 0.026176283 | 0.026 | 0.422 | 1 | 0.422 | 0.1 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.33 | 1 | 2.33 | 0.1 | 0.060733835 | 0.141509835 | 0.014150983 | 0.014 | 0.315 | 1 | 0.315 | 0.1 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.17 | 1 | 2.17 | 0.1 | 0.060733835 | 0.131792421 | 0.013179242 | 0.013 | 0.326 | 1 | 0.326 | 0.1 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 14.2 | 1 | 14.2 | 0.1 | 0.060733835 | 0.862420451 | 0.086242045 | 0.086 | 1.12 | 1 | 1.12 | 0.1 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3.35 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 | 0.43 | 1 | 0.43 | 0.1 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.3 | 1 | 3.3 | 0.1 | 0.060733835 | 0.200421654 | 0.020042165 | 0.02 | 0.398 | 1 | 0.398 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 5.51 | 1 | 5.51 | 0.1 | 0.060733835 | 0.334643429 | 0.033464343 | 0.033 | 0.813 | 1 | 0.813 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 31.1 | 1 | 31.1 | 0.1 | 0.060733835 | 1.888822256 | 0.188882226 | 0.19 | 1.08 | 0 | 0 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 17.2 | 1 | 17.2 | 0.1 | 0.060733835 | 1.044621955 | 0.104462195 | 0.1 | 1.28 | 0 | 0 | 0.1 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 94.6 | 1 | 94.6 | 0.1 | 0.060733835 | 5.745420752 | 0.574542075 | 0.57 | 2.46 | 0 | 0 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 14.6 | 1 | 14.6 | 0.1 | 0.060733835 | 0.886713985 | 0.088671398 | 0.089 | 1.08 | 0 | 0 | 0.1 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 29.3 | 1 | 29.3 | 0.1 | 0.060733835 | 1.779501353 | 0.177950135 | 0.18 | 1.31 | 0 | 0 | 0.1 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 18.6 | 1 | 18.6 | 0.1 | 0.060733835 | 1.129649323 | 0.112964932 | 0.11 | 1.09 | 1 | 1.09 | 0.1 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 4.15 | 1 | 4.15 | 0.1 | 0.060733835 | 0.252045414 | 0.025204541 | 0.025 | 0.573 | 0 | 0 | 0.1 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 6.93 | 1 | 6.93 | 0.1 | 0.060733835 | 0.420885474 | 0.042088547 | 0.042 | 0.656 | 1 | 0.656 | 0.1 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 8.76 | 1 | 8.76 | 0.1 | 0.060733835 | 0.532028391 | 0.053202839 | 0.053 | 0.704 | 1 | 0.704 | 0.1 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 24.8 | 1 | 24.8 | 0.1 | 0.060733835 | 1.506199098 | 0.15061991 | 0.15 | 1.02 | 0 | 0 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 9.33 | 1 | 9.33 | 0.1 | 0.060733835 | 0.566646677 | 0.056664668 | 0.057 | 0.933 | 1 | 0.933 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 6.65 | 1 | 6.65 | 0.1 | 0.060733835 | 0.40388 | 0.040388 | 0.04 | 0.475 | 0 | 0 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9.34 | 1 | 9.34 | 0.1 | 0.060733835 | 0.567254015 | 0.056725402 | 0.057 | 0.912 | 1 | 0.912 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 8.57 | 1 | 8.57 | 0.1 | 0.060733835 | 0.520488962 | 0.052048896 | 0.052 | 0.8525 | 1 | 0.8525 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.1 | 0.060733835 | | | | | | | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9.8 | 1 | 9.8 | 0.1 | 0.060733835 | 0.595191579 | 0.059519158 | 0.06 | 0.887 | 1 | 0.887 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 7.52 | 1 | 7.52 | 0.1 | 0.060733835 | 0.456718436 | 0.045671844 | 0.046 | 0.599 | 0 | 0 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 13.7 | 1 | 13.7 | 0.1 | 0.060733835 | 0.832053534 | 0.083205353 | 0.083 | 1.17 | 1 | 1.17 | 0.1 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 37.9 | 1 | 37.9 | 0.1 | 0.060733835 | 2.301812331 | 0.230181233 | 0.23 | 1.98 | 0 | 0 | 0.1 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 12.7 | 1 | 12.7 | 0.1 | 0.060733835 | 0.771319699 | 0.07713197 | 0.077 | 1.31 | 1 | 1.31 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 76.3 | 1 | 76.3 | 0.1 | 0.060733835 | 4.633991579 | 0.463399158 | 0.46 | 0.505 | 0 | 0 | 0.1 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 22 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 | 1.83 | 1 | 1.83 | 0.1 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 70.7 | 1 | 70.7 | 0.1 | 0.060733835 | 4.293882105 | 0.429388211 | 0.43 | 2.33 | 0 | 0 | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 88.2 | 1 | 88.2 | 0.1 | 0.060733835 | 5.356724211 | 0.535672421 | 0.54 | 2.11 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 63.5 | 1 | 63.5 | 0.1 | 0.060733835 | 3.856598496 | 0.38565985 | 0.39 | 1.77 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 8.67 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 | 0.869 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 23.9 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 | 1.44 | 1 | 1.44 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 146 | 1 | 146 | 0.1 | 0.060733835 | 8.86713985 | 0.886713985 | 0.89 | 2.01 | 0 | 0 | 0.1 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 30.2 | 1 | 30.2 | 0.1 | 0.060733835 | 1.834161805 | 0.18341618 | 0.18 | 6.71 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 32.9 | 1 | 32.9 | 0.1 | 0.060733835 | 1.998143158 | 0.199814316 | 0.2 | 0.822 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 43.3 | 1 | 43.3 | 0.1 | 0.060733835 | 2.629775038 | 0.262977504 | 0.26 | 4.58 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.1 | 0.060733835 | | | | | | | 0.1 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 75 | 1 | 75 | 0.1 | 0.060733835 | 4.555037594 | 0.455503759 | 0.46 | 2.01 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 129 | 1 | 129 | 0.1 | 0.060733835 | 7.834664662 | 0.783466466 | 0.78 | 1.9 | 0 | 0 | 0.1 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 58.2 | 1 | 58.2 | 0.1 | 0.060733835 | 3.534709173 | 0.353470917 | 0.35 | 0.686 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 77.4 | 1 | 77.4 | 0.1 | 0.060733835 | 4.700798797 | 0.47007988 | 0.47 | 1.19 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 15.6 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 | 2.77 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 37.8 | 1 | 37.8 | 0.1 | 0.060733835 | 2.295738947 | 0.229573895 | 0.23 | 1.07 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 12.3 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 | 1.39 | 0 | 0 | 0.1 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 168 | 1 | 168 | 0.1 | 0.060733835 | 10.20328421 | 1.020328421 | 1 | 2.44 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 193 | 1 | 193 | 0.1 | 0.060733835 | 11.72163008 | 1.172163008 | 1.2 | 2.47 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 14.5 | 1 | 14.5 | 0.1 | 0.060733835 | 0.880640602 | 0.08806406 | 0.088 | 2.36 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 372 | 1 | 372 | 0.1 | 0.060733835 | 22.59298647 | 2.259298647 | 2.3 | 4.57 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 66.6 | 1 | 66.6 | 0.1 | 0.060733835 | 4.044873383 | 0.404487338 | 0.4 | 0.769 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4.61 | 1 | 4.61 | 0.1 | 0.060733835 | 0.279982977 | 0.027998298 | 0.028 | 0.463 | 1 | 0.463 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 212 | 1 | 212 | 0.1 | 0.060733835 | 12.87557293 | 1.287557293 | 1.3 | 2.42 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 12 | 1 | 12 | 0.1 | 0.060733835 | 0.728806015 | 0.072880602 | 0.073 | 0.58 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1.6 | 1 | 1.6 | 0.1 | 0.060733835 | 0.097174135 | 0.009717414 | 0.0097 | 0.19 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1.12 | 1 | 1.12 | 0.1 | 0.060733835 | 0.068021895 | 0.006802189 | 0.0068 | 0.18 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.25 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 4.61 | 1 | 4.61 | 0.1 | 0.060733835 | 0.279982977 | 0.027998298 | 0.028 | 0.59 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 11.1 | 1 | 11.1 | 0.1 | 0.060733835 | 0.674145564 | 0.067414556 | 0.067 | 0.247 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 63.4 | 1 | 63.4 | 0.1 | 0.060733835 | 3.850525113 | 0.385052511 | 0.39 | 0.9 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 64.1 | 1 | 64.1 | 0.1 | 0.060733835 | 3.893038797 | 0.38930388 | 0.39 | 1.17 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 9.5 | 1 | 9.5 | 0.1 | 0.060733835 | 0.576971429 | 0.057697143 | 0.058 | 0.174 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.1 | 0.060733835 | | | | | | | 0.1 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 64.6 | 1 | 64.6 | 0.1 | 0.060733835 | 3.923405714 | 0.392340571 | 0.39 | 1.2 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 17.8 | 1 | 17.8 | 0.1 | 0.060733835 | 1.081062256 | 0.108106226 | 0.11 | 0.37 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 10.5 | 1 | 10.5 | 0.1 | 0.060733835 | 0.637705263 | 0.063770526 | 0.064 | 0.62 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 365 | 1 | 365 | 0.1 | 0.060733835 | 22.16784962 | 2.216784962 | 2.2 | 4.4 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1.26 | 1 | 1.26 | 0.1 | 0.060733835 | 0.076524632 | 0.007652463 | 0.0077 | 0.28 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 3.31 | 1 | 3.31 | 0.1 | 0.060733835 | 0.201028992 | 0.020102899 | 0.02 | 0.3 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1.88 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 | 0.2 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.986 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 | 0.121 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 195.15 | 1 | 195.15 | 0.1 | 0.060733835 | 11.85220782 | 1.185220782 | 1.2 | 2.665 | 1 | 2.665 | 0.1 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.1 | 0.060733835 | | | | | | | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 116 | 1 | 116 | 0.1 | 0.060733835 | 7.045124812 | 0.704512481 | 0.7 | 1.3 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 41.5 | 1 | 41.5 | 0.1 | 0.060733835 | 2.520454135 | 0.252045414 | 0.25 | 1.1 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 115.5 | 1 | 115.5 | 0.1 | 0.060733835 | 7.014757895 | 0.701475789 | 0.7 | 2 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.1 | 0.060733835 | | | | | | | 0.1 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 64.5 | 1 | 64.5 | 0.1 | 0.060733835 | 3.917332331 | 0.391733233 | 0.39 | 0.741 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 258 | 1 | 258 | 0.1 | 0.060733835 | 15.66932932 | 1.566932932 | 1.6 | 4.13 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 10.5 | 1 | 10.5 | 0.1 | 0.060733835 | 0.637705263 | 0.063770526 | 0.064 | 1 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 73.9 | 1 | 73.9 | 0.1 | 0.060733835 | 4.488230376 | 0.448823038 | 0.45 | 1.02 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 58.8 | 1 | 58.8 | 0.1 | 0.060733835 | 3.571149474 | 0.357114947 | 0.36 | 0.495 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 52.1 | 1 | 52.1 | 0.1 | 0.060733835 | 3.164232782 | 0.316423278 | 0.32 | 0.567 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 21.8 | 1 | 21.8 | 0.1 | 0.060733835 | 1.323997594 | 0.132399759 | 0.13 | 1.41 | 1 | 1.41 | 0.1 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.4 | 1 | 1.4 | 0.1 | 0.060733835 | 0.085027368 | 0.008502737 | 0.0085 | 0.223 | 1 | 0.223 | 0.1 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.36 | 1 | 2.36 | 0.1 | 0.060733835 | 0.14333185 | 0.014333185 | 0.014 | 0.32 | 1 | 0.32 | 0.1 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3.91 | 1 | 3.91 | 0.1 | 0.060733835 | 0.237469293 | 0.023746929 | 0.024 | 0.519 | 1 | 0.519 | 0.1 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 11 | 1 | 11 | 0.1 | 0.060733835 | 0.66807218 | 0.066807218 | 0.067 | 0.96 | 1 | 0.96 | 0.1 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 4.35 | 1 | 4.35 | 0.1 | 0.060733835 | 0.26419218 | 0.026419218 | 0.026 | 0.425 | 1 | 0.425 | 0.1 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 9.33 | 1 | 9.33 | 0.1 | 0.060733835 | 0.566646677 | 0.056664668 | 0.057 | 0.618 | 0 | 0 | 0.1 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 | 3.91 | 1 | 3.91 | 0.1 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 0.1 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.114 | 0 | 0 | 0.1 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.191 | 0 | 0 | 0.1 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 | 0.125 | 0 | 0 | 0.1 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 | 0.497 | 0 | 0 | 0.1 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 | 0.273 | 0 | 0 | 0.1 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 | 0.408 | 0 | 0 | 0.1 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 | 3.91 | 1 | 3.91 | 0.1 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 0.1 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.114 | 0 | 0 | 0.1 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.191 | 0 | 0 | 0.1 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 | 0.125 | 0 | 0 | 0.1 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 | 0.497 | 0 | 0 | 0.1 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 | 0.273 | 0 | 0 | 0.1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 | 0.408 | 0 | 0 | 0.1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 | 3.91 | 1 | 3.91 | 0.1 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 0.1 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.114 | 0 | 0 | 0.1 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.191 | 0 | 0 | 0.1 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 | 0.125 | 0 | 0 | 0.1 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 | 0.497 | 0 | 0 | 0.1 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 | 0.273 | 0 | 0 | 0.1 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 | 0.408 | 0 | 0 | 0.1 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 | 3.91 | 1 | 3.91 | 0.1 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 0.1 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.114 | 0 | 0 | 0.1 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.191 | 0 | 0 | 0.1 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 | 0.125 | 0 | 0 | 0.1 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 | 0.497 | 0 | 0 | 0.1 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 | 0.273 | 0 | 0 | 0.1 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 | 0.408 | 0 | 0 | 0.1 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 | 3.91 | 1 | 3.91 | 0.1 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 0.1 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.114 | 0 | 0 | 0.1 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.191 | 0 | 0 | 0.1 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 | 0.125 | 0 | 0 | 0.1 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 | 0.497 | 0 | 0 | 0.1 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 | 0.273 | 0 | 0 | 0.1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 | 0.408 | 0 | 0 | 0.1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 | 3.91 | 1 | 3.91 | 0.1 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 0.1 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.114 | 0 | 0 | 0.1 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.191 | 0 | 0 | 0.1 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 | 0.125 | 0 | 0 | 0.1 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 | 0.497 | 0 | 0 | 0.1 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 | 0.273 | 0 | 0 | 0.1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 | 0.408 | 0 | 0 | 0.1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 | 3.91 | 1 | 3.91 | 0.1 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 0.1 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.114 | 0 | 0 | 0.1 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.191 | 0 | 0 | 0.1 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 | 0.125 | 0 | 0 | 0.1 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 | 0.497 | 0 | 0 | 0.1 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 | 0.273 | 0 | 0 | 0.1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 | 0.408 | 0 | 0 | 0.1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | 0.624114519 | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | 0.624114519 | 17.60002944 | 1.760002944 | 1.8 | 3.91 | 1 | 3.91 | 0.1 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | 0.624114519 | 0.368227566 | 0.036822757 | 0.037 | 0.26 | 0 | 0 | 0.1 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | 0.624114519 | 3.520005888 | 0.352000589 | 0.35 | 0.51 | 0 | 0 | 0.1 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | 0.624114519 | 0 | 0 | 0 | 0.114 | 0 | 0 | 0.1 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | 0.624114519 | 0 | 0 | 0 | 0.191 | 0 | 0 | 0.1 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | 0.624114519 | 0.767660859 | 0.076766086 | 0.077 | 0.125 | 0 | 0 | 0.1 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | 0.624114519 | 4.306390182 | 0.430639018 | 0.43 | 0.497 | 0 | 0 | 0.1 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | 0.624114519 | 1.822414396 | 0.18224144 | 0.18 | 0.273 | 0 | 0 | 0.1 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | 0.624114519 | 1.769364662 | 0.176936466 | 0.18 | 0.408 | 0 | 0 | 0.1 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | 0.624114519 | | | | | | | 0.1 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 0.624114519 | | | | | | | 0.1 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 0.624114519 | | | | | | | 0.1 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 0.624114519 | | | | | | | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | 0.534389539 | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | 0.534389539 | 15.06978499 | 1.506978499 | 1.5 | 3.91 | 1 | 3.91 | 0.1 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | 0.534389539 | 0.315289828 | 0.031528983 | 0.032 | 0.26 | 0 | 0 | 0.1 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | 0.534389539 | 3.013956997 | 0.3013957 | 0.3 | 0.51 | 0 | 0 | 0.1 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | 0.534389539 | 0 | 0 | 0 | 0.114 | 0 | 0 | 0.1 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | 0.534389539 | 0 | 0 | 0 | 0.191 | 0 | 0 | 0.1 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | 0.534389539 | 0.657299132 | 0.065729913 | 0.066 | 0.125 | 0 | 0 | 0.1 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | 0.534389539 | 3.687287816 | 0.368728782 | 0.37 | 0.497 | 0 | 0 | 0.1 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | 0.534389539 | 1.560417453 | 0.156041745 | 0.16 | 0.273 | 0 | 0 | 0.1 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | 0.534389539 | 1.514994342 | 0.151499434 | 0.15 | 0.408 | 0 | 0 | 0.1 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | 0.534389539 | | | | | | | 0.1 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 0.534389539 | | | | | | | 0.1 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 0.534389539 | | | | | | | 0.1 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 0.534389539 | | | | | | | 0.1 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | 12.71484224 | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | 12.71484224 | 358.5585512 | 35.85585512 | 36 | 3.91 | 1 | 3.91 | 0.1 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | 12.71484224 | 7.501756923 | 0.750175692 | 0.75 | 0.26 | 0 | 0 | 0.1 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | 12.71484224 | 71.71171025 | 7.171171025 | 7.2 | 0.51 | 0 | 0 | 0.1 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | 12.71484224 | 0 | 0 | 0 | 0.114 | 0 | 0 | 0.1 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | 12.71484224 | 0 | 0 | 0 | 0.191 | 0 | 0 | 0.1 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | 12.71484224 | 15.63925596 | 1.563925596 | 1.6 | 0.125 | 0 | 0 | 0.1 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | 12.71484224 | 87.73241147 | 8.773241147 | 8.8 | 0.497 | 0 | 0 | 0.1 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | 12.71484224 | 37.12733935 | 3.712733935 | 3.7 | 0.273 | 0 | 0 | 0.1 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | 12.71484224 | 36.04657776 | 3.604657776 | 3.6 | 0.408 | 0 | 0 | 0.1 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | 12.71484224 | | | | | | | 0.1 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 12.71484224 | | | | | | | 0.1 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 12.71484224 | | | | | | | 0.1 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 12.71484224 | | | | | | | 0.1 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 | 3.91 | 1 | 3.91 | 0.1 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 0.1 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.114 | 0 | 0 | 0.1 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.191 | 0 | 0 | 0.1 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 | 0.125 | 0 | 0 | 0.1 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 | 0.497 | 0 | 0 | 0.1 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 | 0.273 | 0 | 0 | 0.1 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 | 0.408 | 0 | 0 | 0.1 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 5.4 | 1 | 5.4 | 0.1 | 2.263779528 | 12.22440945 | 1.222440945 | 1.2 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 2 | 1 | 2 | 0.1 | 2.263779528 | 4.527559055 | 0.452755906 | 0.45 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.1 | 2.263779528 | 8.149606299 | 0.81496063 | 0.81 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 8.24 | 1 | 8.24 | 0.1 | 2.263779528 | 18.65354331 | 1.865354331 | 1.9 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 5.85 | 1 | 5.85 | 0.1 | 2.263779528 | 13.24311024 | 1.324311024 | 1.3 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 4.17 | 1 | 4.17 | 0.1 | 2.263779528 | 9.43996063 | 0.943996063 | 0.94 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 5.42 | 1 | 5.42 | 0.1 | 2.263779528 | 12.26968504 | 1.226968504 | 1.2 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 0.72 | 1 | 0.72 | 0.1 | 2.263779528 | 1.62992126 | 0.162992126 | 0.16 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 6.41 | 1 | 6.41 | 0.1 | 2.263779528 | 14.51082677 | 1.451082677 | 1.5 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 5.21 | 1 | 5.21 | 0.1 | 2.263779528 | 11.79429134 | 1.179429134 | 1.2 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 3.46 | 1 | 3.46 | 0.1 | 2.263779528 | 7.832677165 | 0.783267717 | 0.78 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 3.73 | 1 | 3.73 | 0.1 | 2.263779528 | 8.443897638 | 0.844389764 | 0.84 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 4.92 | 1 | 4.92 | 0.1 | 2.263779528 | 11.13779528 | 1.113779528 | 1.1 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 5.01 | 1 | 5.01 | 0.1 | 2.263779528 | 11.34153543 | 1.134153543 | 1.1 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | | | | 0.1 | 2.263779528 | | | |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 3.63 | 1 | 3.63 | 0.1 | 2.263779528 | 8.217519685 | 0.821751969 | 0.82 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 2.96 | 1 | 2.96 | 0.1 | 2.263779528 | 6.700787402 | 0.67007874 | 0.67 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 1.28 | 1 | 1.28 | 0.1 | 2.263779528 | 2.897637795 | 0.28976378 | 0.29 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 1.33 | 1 | 1.33 | 0.1 | 2.263779528 | 3.010826772 | 0.301082677 | 0.3 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 9.5 | 1 | 9.5 | 0.1 | 2.263779528 | 21.50590551 | 2.150590551 | 2.2 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 2.02 | 1 | 2.02 | 0.1 | 2.263779528 | 4.572834646 | 0.457283465 | 0.46 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 1.88 | 1 | 1.88 | 0.1 | 2.263779528 | 4.255905512 | 0.425590551 | 0.43 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 3.24 | 1 | 3.24 | 0.1 | 2.263779528 | 7.334645669 | 0.733464567 | 0.73 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.1 | 2.263779528 | 4.980314961 | 0.498031496 | 0.5 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 3.23 | 1 | 3.23 | 0.1 | 2.263779528 | 7.312007874 | 0.731200787 | 0.73 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 9.77 | 1 | 9.77 | 0.1 | 2.263779528 | 22.11712598 | 2.211712598 | 2.2 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 4.34 | 1 | 4.34 | 0.1 | 2.263779528 | 9.82480315 | 0.982480315 | 0.98 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 6.56 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 7.55 | 1 | 7.55 | 0.1 | 2.263779528 | 17.09153543 | 1.709153543 | 1.7 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 1.99 | 1 | 1.99 | 0.1 | 2.263779528 | 4.50492126 | 0.450492126 | 0.45 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 4.35 | 1 | 4.35 | 0.1 | 2.263779528 | 9.847440945 | 0.984744094 | 0.98 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 4.46 | 1 | 4.46 | 0.1 | 2.263779528 | 10.09645669 | 1.009645669 | 1 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 3.94 | 1 | 3.94 | 0.1 | 2.263779528 | 8.919291339 | 0.891929134 | 0.89 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 5.58 | 1 | 5.58 | 0.1 | 2.263779528 | 12.63188976 | 1.263188976 | 1.3 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 3.18 | 1 | 3.18 | 0.1 | 2.263779528 | 7.198818898 | 0.71988189 | 0.72 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 6.15 | 1 | 6.15 | 0.1 | 2.263779528 | 13.92224409 | 1.392224409 | 1.4 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 6.025 | 1 | 6.025 | 0.1 | 2.263779528 | 13.63927165 | 1.363927165 | 1.4 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 0.1 | 2.263779528 | | | |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 5.29 | 1 | 5.29 | 0.1 | 2.263779528 | 11.9753937 | 1.19753937 | 1.2 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 4.8 | 1 | 4.8 | 0.1 | 2.263779528 | 10.86614173 | 1.086614173 | 1.1 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 7.78 | 1 | 7.78 | 0.1 | 2.263779528 | 17.61220472 | 1.761220472 | 1.8 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 7.04 | 1 | 7.04 | 0.1 | 2.263779528 | 15.93700787 | 1.593700787 | 1.6 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 7.41 | 1 | 7.41 | 0.1 | 2.263779528 | 16.7746063 | 1.67746063 | 1.7 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 2.23 | 1 | 2.23 | 0.1 | 2.263779528 | 5.048228346 | 0.504822835 | 0.5 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 7.87 | 1 | 7.87 | 0.1 | 2.263779528 | 17.81594488 | 1.781594488 | 1.8 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 6.77 | 1 | 6.77 | 0.1 | 2.263779528 | 15.3257874 | 1.53257874 | 1.5 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.1 | 2.263779528 | 6.542322835 | 0.654232283 | 0.65 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 3.04 | 1 | 3.04 | 0.1 | 2.263779528 | 6.881889764 | 0.688188976 | 0.69 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 4.89 | 1 | 4.89 | 0.1 | 2.263779528 | 11.06988189 | 1.106988189 | 1.1 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 7.15 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 6.88 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 6.68 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 4.94 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 16.3 | 1 | 16.3 | 0.1 | 2.263779528 | 36.8996063 | 3.68996063 | 3.7 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | | | | 0.1 | 2.263779528 | | | |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 4.9 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 6.79 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 3.45 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 5.52 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 6.73 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 2.63 | 1 | 2.63 | 0.1 | 2.263779528 | 5.953740157 | 0.595374016 | 0.6 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 4.96 | 1 | 4.96 | 0.1 | 2.263779528 | 11.22834646 | 1.122834646 | 1.1 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 13.4 | 1 | 13.4 | 0.1 | 2.263779528 | 30.33464567 | 3.033464567 | 3 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 7.25 | 1 | 7.25 | 0.1 | 2.263779528 | 16.41240157 | 1.641240157 | 1.6 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 4.36 | 1 | 4.36 | 0.1 | 2.263779528 | 9.87007874 | 0.987007874 | 0.99 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 15.5 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 2.77 | 1 | 2.77 | 0.1 | 2.263779528 | 6.270669291 | 0.627066929 | 0.63 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 3.03 | 1 | 3.03 | 0.1 | 2.263779528 | 6.859251969 | 0.685925197 | 0.69 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 6.9 | 1 | 6.9 | 0.1 | 2.263779528 | 15.62007874 | 1.562007874 | 1.6 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 1.23 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 0.32 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 0.67 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 0.097 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 1.88 | 1 | 1.88 | 0.1 | 2.263779528 | 4.255905512 | 0.425590551 | 0.43 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 0.7 | 1 | 0.7 | 0.1 | 2.263779528 | 1.584645669 | 0.158464567 | 0.16 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 1.7 | 1 | 1.7 | 0.1 | 2.263779528 | 3.848425197 | 0.38484252 | 0.38 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.1 | 2.263779528 | 8.149606299 | 0.81496063 | 0.81 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.1 | 2.263779528 | 2.49015748 | 0.249015748 | 0.25 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 0.1 | 2.263779528 | | | |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 1.58 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 0.86 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 13.7 | 1 | 13.7 | 0.1 | 2.263779528 | 31.01377953 | 3.101377953 | 3.1 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 0.27 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 0.5 | 1 | 0.5 | 0.1 | 2.263779528 | 1.131889764 | 0.113188976 | 0.11 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 0.3 | 1 | 0.3 | 0.1 | 2.263779528 | 0.679133858 | 0.067913386 | 0.068 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 7.715 | 1 | 7.715 | 0.1 | 2.263779528 | 17.46505906 | 1.746505906 | 1.7 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 0.1 | 2.263779528 | | | |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 3.55 | 1 | 3.55 | 0.1 | 2.263779528 | 8.036417323 | 0.803641732 | 0.8 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 1.35 | 1 | 1.35 | 0.1 | 2.263779528 | 3.056102362 | 0.305610236 | 0.31 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 3.375 | 1 | 3.375 | 0.1 | 2.263779528 | 7.640255906 | 0.764025591 | 0.76 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 0.1 | 2.263779528 | | | |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 2.1 | 1 | 2.1 | 0.1 | 2.263779528 | 4.753937008 | 0.475393701 | 0.48 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 5.78 | 0 | 0 | 0.1 | 2.263779528 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 3.5 | 1 | 3.5 | 0.1 | 2.263779528 | 7.923228346 | 0.792322835 | 0.79 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 2.1 | 1 | 2.1 | 0.1 | 2.263779528 | 4.753937008 | 0.475393701 | 0.48 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 | 2.263779528 | 4.301181102 | 0.43011811 | 0.43 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 2 | 1 | 2 | 0.1 | 2.263779528 | 4.527559055 | 0.452755906 | 0.45 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 11.9 | 1 | 11.9 | 0.1 | 2.263779528 | 26.93897638 | 2.693897638 | 2.7 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 1.01 | 1 | 1.01 | 0.1 | 2.263779528 | 2.286417323 | 0.228641732 | 0.23 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 1.39 | 1 | 1.39 | 0.1 | 2.263779528 | 3.146653543 | 0.314665354 | 0.31 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 2.42 | 1 | 2.42 | 0.1 | 2.263779528 | 5.478346457 | 0.547834646 | 0.55 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 5.35 | 1 | 5.35 | 0.1 | 2.263779528 | 12.11122047 | 1.211122047 | 1.2 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 3.1 | 1 | 3.1 | 0.1 | 2.263779528 | 7.017716535 | 0.701771654 | 0.7 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 5.14 | 1 | 5.14 | 0.1 | 2.263779528 | 11.63582677 | 1.163582677 | 1.2 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 5.4 | 1 | 5.4 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 2 | 1 | 2 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 8.24 | 1 | 8.24 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 5.85 | 1 | 5.85 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 4.17 | 1 | 4.17 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 5.42 | 1 | 5.42 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 0.72 | 1 | 0.72 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 6.41 | 1 | 6.41 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 5.21 | 1 | 5.21 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 3.46 | 1 | 3.46 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 3.73 | 1 | 3.73 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 4.92 | 1 | 4.92 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 5.01 | 1 | 5.01 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 3.63 | 1 | 3.63 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 2.96 | 1 | 2.96 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 1.28 | 1 | 1.28 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 1.33 | 1 | 1.33 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 9.5 | 1 | 9.5 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 2.02 | 1 | 2.02 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 1.88 | 1 | 1.88 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 3.24 | 1 | 3.24 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 3.23 | 1 | 3.23 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 9.77 | 1 | 9.77 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 4.34 | 1 | 4.34 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 6.56 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 7.55 | 1 | 7.55 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 1.99 | 1 | 1.99 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 4.35 | 1 | 4.35 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 4.46 | 1 | 4.46 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 3.94 | 1 | 3.94 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 5.58 | 1 | 5.58 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 3.18 | 1 | 3.18 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 6.15 | 1 | 6.15 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 6.025 | 1 | 6.025 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 5.29 | 1 | 5.29 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 4.8 | 1 | 4.8 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 7.78 | 1 | 7.78 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 7.04 | 1 | 7.04 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 7.41 | 1 | 7.41 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 2.23 | 1 | 2.23 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 7.87 | 1 | 7.87 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 6.77 | 1 | 6.77 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 3.04 | 1 | 3.04 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 4.89 | 1 | 4.89 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 7.15 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 6.88 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 6.68 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 4.94 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 16.3 | 1 | 16.3 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 4.9 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 6.79 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 3.45 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 5.52 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 6.73 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 2.63 | 1 | 2.63 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 4.96 | 1 | 4.96 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 13.4 | 1 | 13.4 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 7.25 | 1 | 7.25 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 4.36 | 1 | 4.36 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 15.5 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 2.77 | 1 | 2.77 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 3.03 | 1 | 3.03 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 1.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 0.32 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 0.67 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 0.097 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 1.88 | 1 | 1.88 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 0.7 | 1 | 0.7 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 1.7 | 1 | 1.7 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 1.58 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 0.86 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 13.7 | 1 | 13.7 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 0.27 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 0.5 | 1 | 0.5 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 0.3 | 1 | 0.3 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 7.715 | 1 | 7.715 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 3.55 | 1 | 3.55 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 1.35 | 1 | 1.35 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 3.375 | 1 | 3.375 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 2.1 | 1 | 2.1 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 5.78 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 3.5 | 1 | 3.5 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 2.1 | 1 | 2.1 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 2 | 1 | 2 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 11.9 | 1 | 11.9 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 1.01 | 1 | 1.01 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 1.39 | 1 | 1.39 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 2.42 | 1 | 2.42 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 5.35 | 1 | 5.35 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 3.1 | 1 | 3.1 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 5.14 | 1 | 5.14 | 0.1 | NA | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.092 | 0 | 0 | 0 | 5.4 | 1 | 5.4 | 0.1 | 0.03102406 | 0.167529925 | 0.016752992 | 0.017 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.092 | 0 | 0 | 0 | 2 | 1 | 2 | 0.1 | 0.03102406 | 0.06204812 | 0.006204812 | 0.0062 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.092 | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.1 | 0.03102406 | 0.111686617 | 0.011168662 | 0.011 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.092 | 0.09936 | 0.009936 | 0.0099 | 8.24 | 1 | 8.24 | 0.1 | 0.03102406 | 0.255638256 | 0.025563826 | 0.026 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.092 | 0.081328 | 0.0081328 | 0.0081 | 5.85 | 1 | 5.85 | 0.1 | 0.03102406 | 0.181490752 | 0.018149075 | 0.018 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.092 | 0.062468 | 0.0062468 | 0.0062 | 4.17 | 1 | 4.17 | 0.1 | 0.03102406 | 0.129370331 | 0.012937033 | 0.013 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.092 | 0.065136 | 0.0065136 | 0.0065 | 5.42 | 1 | 5.42 | 0.1 | 0.03102406 | 0.168150406 | 0.016815041 | 0.017 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.092 | 0 | 0 | 0 | 0.72 | 1 | 0.72 | 0.1 | 0.03102406 | 0.022337323 | 0.002233732 | 0.0022 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.092 | 0.09936 | 0.009936 | 0.0099 | 6.41 | 1 | 6.41 | 0.1 | 0.03102406 | 0.198864226 | 0.019886423 | 0.02 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.092 | 0.0759 | 0.00759 | 0.0076 | 5.21 | 1 | 5.21 | 0.1 | 0.03102406 | 0.161635353 | 0.016163535 | 0.016 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.092 | 0 | 0 | 0 | 3.46 | 1 | 3.46 | 0.1 | 0.03102406 | 0.107343248 | 0.010734325 | 0.011 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.092 | 0 | 0 | 0 | 3.73 | 1 | 3.73 | 0.1 | 0.03102406 | 0.115719744 | 0.011571974 | 0.012 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.092 | 0.08832 | 0.008832 | 0.0088 | 4.92 | 1 | 4.92 | 0.1 | 0.03102406 | 0.152638376 | 0.015263838 | 0.015 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.092 | 0.07452 | 0.007452 | 0.0075 | 5.01 | 1 | 5.01 | 0.1 | 0.03102406 | 0.155430541 | 0.015543054 | 0.016 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.092 | | | | | | | 0.1 | 0.03102406 | | | |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.092 | 0.05612 | 0.005612 | 0.0056 | 3.63 | 1 | 3.63 | 0.1 | 0.03102406 | 0.112617338 | 0.011261734 | 0.011 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.092 | 0.038824 | 0.0038824 | 0.0039 | 2.96 | 1 | 2.96 | 0.1 | 0.03102406 | 0.091831218 | 0.009183122 | 0.0092 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.092 | 0.02898 | 0.002898 | 0.0029 | 1.28 | 1 | 1.28 | 0.1 | 0.03102406 | 0.039710797 | 0.00397108 | 0.004 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.092 | 0.029992 | 0.0029992 | 0.003 | 1.33 | 1 | 1.33 | 0.1 | 0.03102406 | 0.041262 | 0.0041262 | 0.0041 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.092 | 0.10304 | 0.010304 | 0.01 | 9.5 | 1 | 9.5 | 0.1 | 0.03102406 | 0.294728571 | 0.029472857 | 0.029 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.092 | 0.03956 | 0.003956 | 0.004 | 2.02 | 1 | 2.02 | 0.1 | 0.03102406 | 0.062668602 | 0.00626686 | 0.0063 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.092 | 0.036616 | 0.0036616 | 0.0037 | 1.88 | 1 | 1.88 | 0.1 | 0.03102406 | 0.058325233 | 0.005832523 | 0.0058 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.092 | 0.074796 | 0.0074796 | 0.0075 | 3.24 | 1 | 3.24 | 0.1 | 0.03102406 | 0.100517955 | 0.010051795 | 0.01 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.092 | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.1 | 0.03102406 | 0.068252932 | 0.006825293 | 0.0068 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.092 | 0 | 0 | 0 | 3.23 | 1 | 3.23 | 0.1 | 0.03102406 | 0.100207714 | 0.010020771 | 0.01 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.092 | 0 | 0 | 0 | 9.77 | 1 | 9.77 | 0.1 | 0.03102406 | 0.303105068 | 0.030310507 | 0.03 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.092 | 0 | 0 | 0 | 4.34 | 1 | 4.34 | 0.1 | 0.03102406 | 0.134644421 | 0.013464442 | 0.013 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.092 | 0 | 0 | 0 | 6.56 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.092 | 0.10028 | 0.010028 | 0.01 | 7.55 | 1 | 7.55 | 0.1 | 0.03102406 | 0.234231654 | 0.023423165 | 0.023 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.092 | 0 | 0 | 0 | 1.99 | 1 | 1.99 | 0.1 | 0.03102406 | 0.06173788 | 0.006173788 | 0.0062 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.092 | 0.060352 | 0.0060352 | 0.006 | 4.35 | 1 | 4.35 | 0.1 | 0.03102406 | 0.134954662 | 0.013495466 | 0.013 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.092 | 0.064768 | 0.0064768 | 0.0065 | 4.46 | 1 | 4.46 | 0.1 | 0.03102406 | 0.138367308 | 0.013836731 | 0.014 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.092 | 0 | 0 | 0 | 3.94 | 1 | 3.94 | 0.1 | 0.03102406 | 0.122234797 | 0.01222348 | 0.012 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.092 | 0.085836 | 0.0085836 | 0.0086 | 5.58 | 1 | 5.58 | 0.1 | 0.03102406 | 0.173114256 | 0.017311426 | 0.017 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.092 | 0 | 0 | 0 | 3.18 | 1 | 3.18 | 0.1 | 0.03102406 | 0.098656511 | 0.009865651 | 0.0099 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.092 | 0.083904 | 0.0083904 | 0.0084 | 6.15 | 1 | 6.15 | 0.1 | 0.03102406 | 0.19079797 | 0.019079797 | 0.019 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.092 | 0.07843 | 0.007843 | 0.0078 | 6.025 | 1 | 6.025 | 0.1 | 0.03102406 | 0.186919962 | 0.018691996 | 0.019 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.092 | | | | | | | 0.1 | 0.03102406 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.092 | 0.081604 | 0.0081604 | 0.0082 | 5.29 | 1 | 5.29 | 0.1 | 0.03102406 | 0.164117278 | 0.016411728 | 0.016 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.092 | 0 | 0 | 0 | 4.8 | 1 | 4.8 | 0.1 | 0.03102406 | 0.148915489 | 0.014891549 | 0.015 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.092 | 0.10764 | 0.010764 | 0.011 | 7.78 | 1 | 7.78 | 0.1 | 0.03102406 | 0.241367188 | 0.024136719 | 0.024 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.092 | 0 | 0 | 0 | 7.04 | 1 | 7.04 | 0.1 | 0.03102406 | 0.218409383 | 0.021840938 | 0.022 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.092 | 0.12052 | 0.012052 | 0.012 | 7.41 | 1 | 7.41 | 0.1 | 0.03102406 | 0.229888286 | 0.022988829 | 0.023 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.092 | 0 | 0 | 0 | 2.23 | 1 | 2.23 | 0.1 | 0.03102406 | 0.069183654 | 0.006918365 | 0.0069 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.092 | 0.16836 | 0.016836 | 0.017 | 7.87 | 1 | 7.87 | 0.1 | 0.03102406 | 0.244159353 | 0.024415935 | 0.024 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.092 | 0 | 0 | 0 | 6.77 | 1 | 6.77 | 0.1 | 0.03102406 | 0.210032887 | 0.021003289 | 0.021 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.092 | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.1 | 0.03102406 | 0.089659534 | 0.008965953 | 0.009 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.092 | 0 | 0 | 0 | 3.04 | 1 | 3.04 | 0.1 | 0.03102406 | 0.094313143 | 0.009431314 | 0.0094 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.092 | 0 | 0 | 0 | 4.89 | 1 | 4.89 | 0.1 | 0.03102406 | 0.151707654 | 0.015170765 | 0.015 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.092 | 0.13248 | 0.013248 | 0.013 | 7.15 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.092 | 0 | 0 | 0 | 6.88 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.092 | 0 | 0 | 0 | 6.68 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.092 | 0 | 0 | 0 | 4.94 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.092 | 0 | 0 | 0 | 16.3 | 1 | 16.3 | 0.1 | 0.03102406 | 0.50569218 | 0.050569218 | 0.051 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.092 | | | | | | | 0.1 | 0.03102406 | | | |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.092 | 0 | 0 | 0 | 4.9 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.092 | 0 | 0 | 0 | 6.79 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.092 | 0 | 0 | 0 | 3.45 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.092 | 0 | 0 | 0 | 5.52 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.092 | 0 | 0 | 0 | 6.73 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.092 | 0 | 0 | 0 | 2.63 | 1 | 2.63 | 0.1 | 0.03102406 | 0.081593278 | 0.008159328 | 0.0082 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.092 | 0 | 0 | 0 | 4.96 | 1 | 4.96 | 0.1 | 0.03102406 | 0.153879338 | 0.015387934 | 0.015 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.092 | 0 | 0 | 0 | 13.4 | 1 | 13.4 | 0.1 | 0.03102406 | 0.415722406 | 0.041572241 | 0.042 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.092 | 0 | 0 | 0 | 7.25 | 1 | 7.25 | 0.1 | 0.03102406 | 0.224924436 | 0.022492444 | 0.022 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.092 | 0 | 0 | 0 | 4.36 | 1 | 4.36 | 0.1 | 0.03102406 | 0.135264902 | 0.01352649 | 0.014 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.092 | 0 | 0 | 0 | 15.5 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.092 | 0 | 0 | 0 | 2.77 | 1 | 2.77 | 0.1 | 0.03102406 | 0.085936647 | 0.008593665 | 0.0086 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.092 | 0.042596 | 0.0042596 | 0.0043 | 3.03 | 1 | 3.03 | 0.1 | 0.03102406 | 0.094002902 | 0.00940029 | 0.0094 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.092 | 0 | 0 | 0 | 6.9 | 1 | 6.9 | 0.1 | 0.03102406 | 0.214066015 | 0.021406602 | 0.021 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.092 | 0 | 0 | 0 | 1.23 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.092 | 0 | 0 | 0 | 0.32 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.092 | 0 | 0 | 0 | 0.67 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.092 | 0 | 0 | 0 | 0.097 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.092 | 0 | 0 | 0 | 1.88 | 1 | 1.88 | 0.1 | 0.03102406 | 0.058325233 | 0.005832523 | 0.0058 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.092 | 0 | 0 | 0 | 0.7 | 1 | 0.7 | 0.1 | 0.03102406 | 0.021716842 | 0.002171684 | 0.0022 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.092 | 0 | 0 | 0 | 1.7 | 1 | 1.7 | 0.1 | 0.03102406 | 0.052740902 | 0.00527409 | 0.0053 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.092 | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.1 | 0.03102406 | 0.111686617 | 0.011168662 | 0.011 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.092 | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.1 | 0.03102406 | 0.034126466 | 0.003412647 | 0.0034 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.092 | | | | | | | 0.1 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.092 | 0 | 0 | 0 | 1.58 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.092 | 0 | 0 | 0 | 0.86 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.092 | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.092 | 0 | 0 | 0 | 13.7 | 1 | 13.7 | 0.1 | 0.03102406 | 0.425029624 | 0.042502962 | 0.043 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.092 | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.092 | 0 | 0 | 0 | 0.27 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.092 | 0 | 0 | 0 | 0.5 | 1 | 0.5 | 0.1 | 0.03102406 | 0.01551203 | 0.001551203 | 0.0016 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.092 | 0 | 0 | 0 | 0.3 | 1 | 0.3 | 0.1 | 0.03102406 | 0.009307218 | 0.000930722 | 0.00093 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.092 | 0.24518 | 0.024518 | 0.025 | 7.715 | 1 | 7.715 | 0.1 | 0.03102406 | 0.239350624 | 0.023935062 | 0.024 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.092 | | | | | | | 0.1 | 0.03102406 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.092 | 0 | 0 | 0 | 3.55 | 1 | 3.55 | 0.1 | 0.03102406 | 0.110135414 | 0.011013541 | 0.011 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.092 | 0 | 0 | 0 | 1.35 | 1 | 1.35 | 0.1 | 0.03102406 | 0.041882481 | 0.004188248 | 0.0042 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.092 | 0 | 0 | 0 | 3.375 | 1 | 3.375 | 0.1 | 0.03102406 | 0.104706203 | 0.01047062 | 0.01 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.092 | | | | | | | 0.1 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.092 | 0 | 0 | 0 | 2.1 | 1 | 2.1 | 0.1 | 0.03102406 | 0.065150526 | 0.006515053 | 0.0065 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.092 | 0 | 0 | 0 | 5.78 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.092 | 0 | 0 | 0 | 3.5 | 1 | 3.5 | 0.1 | 0.03102406 | 0.108584211 | 0.010858421 | 0.011 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.092 | 0 | 0 | 0 | 2.1 | 1 | 2.1 | 0.1 | 0.03102406 | 0.065150526 | 0.006515053 | 0.0065 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.092 | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 | 0.03102406 | 0.058945714 | 0.005894571 | 0.0059 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.092 | 0 | 0 | 0 | 2 | 1 | 2 | 0.1 | 0.03102406 | 0.06204812 | 0.006204812 | 0.0062 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.092 | 0.12972 | 0.012972 | 0.013 | 11.9 | 1 | 11.9 | 0.1 | 0.03102406 | 0.369186316 | 0.036918632 | 0.037 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.092 | 0.020516 | 0.0020516 | 0.0021 | 1.01 | 1 | 1.01 | 0.1 | 0.03102406 | 0.031334301 | 0.00313343 | 0.0031 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.092 | 0.02944 | 0.002944 | 0.0029 | 1.39 | 1 | 1.39 | 0.1 | 0.03102406 | 0.043123444 | 0.004312344 | 0.0043 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.092 | 0.047748 | 0.0047748 | 0.0048 | 2.42 | 1 | 2.42 | 0.1 | 0.03102406 | 0.075078226 | 0.007507823 | 0.0075 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.092 | 0.08832 | 0.008832 | 0.0088 | 5.35 | 1 | 5.35 | 0.1 | 0.03102406 | 0.165978722 | 0.016597872 | 0.017 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.092 | 0.0391 | 0.00391 | 0.0039 | 3.1 | 1 | 3.1 | 0.1 | 0.03102406 | 0.096174586 | 0.009617459 | 0.0096 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.092 | 0 | 0 | 0 | 5.14 | 1 | 5.14 | 0.1 | 0.03102406 | 0.159463669 | 0.015946367 | 0.016 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 | 0.351779236 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 | 0.351779236 | 3.33838495 | 0.333838495 | 0.33 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 | 0.351779236 | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 | 0.351779236 | 1.428223698 | 0.14282237 | 0.14 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 | 0.351779236 | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 | 0.351779236 | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 | 0.351779236 | 0.2761467 | 0.02761467 | 0.028 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 | 0.351779236 | 2.005141645 | 0.200514165 | 0.2 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 | 0.351779236 | 0.664862756 | 0.066486276 | 0.066 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 | 0.351779236 | 0.680692822 | 0.068069282 | 0.068 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | 0.351779236 | | | |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | 0.351779236 | | | |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | 0.351779236 | | | |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | 0.351779236 | | | |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 38.9 | 1 | 38.9 | 0.01 | 0.086692674 | 3.372345037 | 0.03372345 | 0.034 | 10.2 | 1 | 10.2 | 0.01 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 22.5 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 3.66 | 0 | 0 | 0.01 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 37.8 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 8 | 1 | 8 | 0.01 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 49.4 | 1 | 49.4 | 0.01 | 0.086692674 | 4.282618119 | 0.042826181 | 0.043 | 13.7 | 1 | 13.7 | 0.01 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 42 | 1 | 42 | 0.01 | 0.086692674 | 3.641092328 | 0.036410923 | 0.036 | 11.7 | 1 | 11.7 | 0.01 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 27.9 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 7.46 | 1 | 7.46 | 0.01 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 42.7 | 1 | 42.7 | 0.01 | 0.086692674 | 3.7017772 | 0.037017772 | 0.037 | 9.7 | 1 | 9.7 | 0.01 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 4.83 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.01 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 37.7 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 11.9 | 1 | 11.9 | 0.01 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 32 | 1 | 32 | 0.01 | 0.086692674 | 2.774165583 | 0.027741656 | 0.028 | 9.01 | 1 | 9.01 | 0.01 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 27.6 | 1 | 27.6 | 0.01 | 0.086692674 | 2.392717815 | 0.023927178 | 0.024 | 5.05 | 1 | 5.05 | 0.01 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 23.1 | 1 | 23.1 | 0.01 | 0.086692674 | 2.00260078 | 0.020026008 | 0.02 | 4.83 | 1 | 4.83 | 0.01 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 35.6 | 1 | 35.6 | 0.01 | 0.086692674 | 3.086259211 | 0.030862592 | 0.031 | 8.07 | 1 | 8.07 | 0.01 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 34.8 | 1 | 34.8 | 0.01 | 0.086692674 | 3.016905072 | 0.030169051 | 0.03 | 7.25 | 1 | 7.25 | 0.01 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.01 | 0.086692674 | | | | | | | 0.01 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 31.3 | 1 | 31.3 | 0.01 | 0.086692674 | 2.713480711 | 0.027134807 | 0.027 | 5.7 | 1 | 5.7 | 0.01 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 25.8 | 1 | 25.8 | 0.01 | 0.086692674 | 2.236671001 | 0.02236671 | 0.022 | 6.66 | 1 | 6.66 | 0.01 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 10.7 | 1 | 10.7 | 0.01 | 0.086692674 | 0.927611617 | 0.009276116 | 0.0093 | 2.77 | 1 | 2.77 | 0.01 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 9.46 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 2.78 | 1 | 2.78 | 0.01 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 71.6 | 1 | 71.6 | 0.01 | 0.086692674 | 6.207195492 | 0.062071955 | 0.062 | 16.4 | 1 | 16.4 | 0.01 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 14.1 | 1 | 14.1 | 0.01 | 0.086692674 | 1.22236671 | 0.012223667 | 0.012 | 2.84 | 0 | 0 | 0.01 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 17.4 | 1 | 17.4 | 0.01 | 0.086692674 | 1.508452536 | 0.015084525 | 0.015 | 3.87 | 1 | 3.87 | 0.01 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 28.3 | 1 | 28.3 | 0.01 | 0.086692674 | 2.453402687 | 0.024534027 | 0.025 | 6.25 | 1 | 6.25 | 0.01 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 14.8 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 3.07 | 1 | 3.07 | 0.01 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 21.1 | 1 | 21.1 | 0.01 | 0.086692674 | 1.829215431 | 0.018292154 | 0.018 | 4.39 | 1 | 4.39 | 0.01 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 49.8 | 1 | 49.8 | 0.01 | 0.086692674 | 4.317295189 | 0.043172952 | 0.043 | 9.65 | 1 | 9.65 | 0.01 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 47.3 | 1 | 47.3 | 0.01 | 0.086692674 | 4.100563502 | 0.041005635 | 0.041 | 6.68 | 1 | 6.68 | 0.01 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 45.6 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 11.7 | 1 | 11.7 | 0.01 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 53.5 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 12.8 | 1 | 12.8 | 0.01 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 13.3 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 3.52 | 1 | 3.52 | 0.01 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 32.4 | 1 | 32.4 | 0.01 | 0.086692674 | 2.808842653 | 0.028088427 | 0.028 | 7.86 | 1 | 7.86 | 0.01 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 43.7 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 9.76 | 1 | 9.76 | 0.01 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 98.9 | 1 | 98.9 | 0.01 | 0.086692674 | 8.573905505 | 0.085739055 | 0.086 | 8.7 | 1 | 8.7 | 0.01 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 40.7 | 1 | 40.7 | 0.01 | 0.086692674 | 3.528391851 | 0.035283919 | 0.035 | 11.4 | 1 | 11.4 | 0.01 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 23.4 | 1 | 23.4 | 0.01 | 0.086692674 | 2.028608583 | 0.020286086 | 0.02 | 4.65 | 1 | 4.65 | 0.01 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 48 | 1 | 48 | 0.01 | 0.086692674 | 4.161248375 | 0.041612484 | 0.042 | 10.7 | 1 | 10.7 | 0.01 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 36.55 | 1 | 36.55 | 0.01 | 0.086692674 | 3.168617252 | 0.031686173 | 0.032 | 8.9 | 1 | 8.9 | 0.01 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.01 | 0.086692674 | | | | | | | 0.01 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 48.2 | 1 | 48.2 | 0.01 | 0.086692674 | 4.178586909 | 0.041785869 | 0.042 | 12.5 | 1 | 12.5 | 0.01 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 44.8 | 1 | 44.8 | 0.01 | 0.086692674 | 3.883831816 | 0.038838318 | 0.039 | 8.51 | 1 | 8.51 | 0.01 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 70.8 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 15.8 | 1 | 15.8 | 0.01 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 45.6 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 13.5 | 1 | 13.5 | 0.01 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 61.8 | 1 | 61.8 | 0.01 | 0.086692674 | 5.357607282 | 0.053576073 | 0.054 | 14.4 | 1 | 14.4 | 0.01 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 21 | 1 | 21 | 0.01 | 0.086692674 | 1.820546164 | 0.018205462 | 0.018 | 3.84 | 1 | 3.84 | 0.01 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 66.7 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 15.1 | 1 | 15.1 | 0.01 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 66.8 | 1 | 66.8 | 0.01 | 0.086692674 | 5.791070655 | 0.057910707 | 0.058 | 12.3 | 1 | 12.3 | 0.01 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 35.6 | 1 | 35.6 | 0.01 | 0.086692674 | 3.086259211 | 0.030862592 | 0.031 | 6.14 | 1 | 6.14 | 0.01 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 26.6 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 5.32 | 1 | 5.32 | 0.01 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 43.7 | 1 | 43.7 | 0.01 | 0.086692674 | 3.788469874 | 0.037884699 | 0.038 | 8.86 | 1 | 8.86 | 0.01 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 68.4 | 1 | 68.4 | 0.01 | 0.086692674 | 5.929778934 | 0.059297789 | 0.059 | 13.8 | 1 | 13.8 | 0.01 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 45 | 1 | 45 | 0.01 | 0.086692674 | 3.901170351 | 0.039011704 | 0.039 | 10.9 | 1 | 10.9 | 0.01 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 14.8 | 1 | 14.8 | 0.01 | 0.086692674 | 1.283051582 | 0.012830516 | 0.013 | 13.5 | 0 | 0 | 0.01 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 38.4 | 1 | 38.4 | 0.01 | 0.086692674 | 3.3289987 | 0.033289987 | 0.033 | 7.84 | 1 | 7.84 | 0.01 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 73 | 1 | 73 | 0.01 | 0.086692674 | 6.328565236 | 0.063285652 | 0.063 | 54.5 | 1 | 54.5 | 0.01 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.01 | 0.086692674 | | | | | | | 0.01 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 58 | 1 | 58 | 0.01 | 0.086692674 | 5.028175119 | 0.050281751 | 0.05 | 10.4 | 1 | 10.4 | 0.01 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 74.1 | 1 | 74.1 | 0.01 | 0.086692674 | 6.423927178 | 0.064239272 | 0.064 | 13.8 | 1 | 13.8 | 0.01 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 34.4 | 1 | 34.4 | 0.01 | 0.086692674 | 2.982228002 | 0.02982228 | 0.03 | 7.86 | 1 | 7.86 | 0.01 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 45 | 1 | 45 | 0.01 | 0.086692674 | 3.901170351 | 0.039011704 | 0.039 | 9.55 | 1 | 9.55 | 0.01 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 49.6 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 10.4 | 1 | 10.4 | 0.01 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 18.9 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 4.43 | 1 | 4.43 | 0.01 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 36.8 | 1 | 36.8 | 0.01 | 0.086692674 | 3.19029042 | 0.031902904 | 0.032 | 7.38 | 1 | 7.38 | 0.01 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 98.5 | 1 | 98.5 | 0.01 | 0.086692674 | 8.539228435 | 0.085392284 | 0.085 | 15.2 | 1 | 15.2 | 0.01 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 48.7 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 18 | 1 | 18 | 0.01 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 34.4 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 7.15 | 1 | 7.15 | 0.01 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 156 | 1 | 156 | 0.01 | 0.086692674 | 13.52405722 | 0.135240572 | 0.14 | 32.1 | 1 | 32.1 | 0.01 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 18.5 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 3.4 | 1 | 3.4 | 0.01 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 25.2 | 1 | 25.2 | 0.01 | 0.086692674 | 2.184655397 | 0.021846554 | 0.022 | 4.89 | 1 | 4.89 | 0.01 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 46.4 | 1 | 46.4 | 0.01 | 0.086692674 | 4.022540095 | 0.040225401 | 0.04 | 10.3 | 1 | 10.3 | 0.01 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 9.81 | 1 | 9.81 | 0.01 | 0.086692674 | 0.850455137 | 0.008504551 | 0.0085 | 1.8 | 1 | 1.8 | 0.01 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 3.3 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 0.2 | 0 | 0 | 0.01 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 5.9 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 0.93 | 1 | 0.93 | 0.01 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.34 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 0.25 | 1 | 0.25 | 0.01 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 16 | 1 | 16 | 0.01 | 0.086692674 | 1.387082792 | 0.013870828 | 0.014 | 3.07 | 1 | 3.07 | 0.01 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 5.9 | 1 | 5.9 | 0.01 | 0.086692674 | 0.511486779 | 0.005114868 | 0.0051 | 1.05 | 0 | 0 | 0.01 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 14.8 | 1 | 14.8 | 0.01 | 0.086692674 | 1.283051582 | 0.012830516 | 0.013 | 3.4 | 1 | 3.4 | 0.01 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 25.9 | 1 | 25.9 | 0.01 | 0.086692674 | 2.245340269 | 0.022453403 | 0.022 | 5.7 | 1 | 5.7 | 0.01 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 4.7 | 1 | 4.7 | 0.01 | 0.086692674 | 0.40745557 | 0.004074556 | 0.0041 | 1.05 | 1 | 1.05 | 0.01 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.01 | 0.086692674 | | | | | | | 0.01 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 7.8 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 2.15 | 0 | 0 | 0.01 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 6.24 | 1 | 6.24 | 0.01 | 0.086692674 | 0.540962289 | 0.005409623 | 0.0054 | 1.03 | 0 | 0 | 0.01 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1.1 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 0.52 | 0 | 0 | 0.01 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 76.5 | 1 | 76.5 | 0.01 | 0.086692674 | 6.631989597 | 0.066319896 | 0.066 | 18.7 | 1 | 18.7 | 0.01 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1.4 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.93 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 0.18 | 1 | 0.18 | 0.01 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 4.2 | 1 | 4.2 | 0.01 | 0.086692674 | 0.364109233 | 0.003641092 | 0.0036 | 0.7 | 1 | 0.7 | 0.01 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 2.7 | 1 | 2.7 | 0.01 | 0.086692674 | 0.234070221 | 0.002340702 | 0.0023 | 0.526 | 0 | 0 | 0.01 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 58.75 | 1 | 58.75 | 0.01 | 0.086692674 | 5.093194625 | 0.050931946 | 0.051 | 13.2 | 1 | 13.2 | 0.01 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.01 | 0.086692674 | | | | | | | 0.01 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 24.6 | 1 | 24.6 | 0.01 | 0.086692674 | 2.132639792 | 0.021326398 | 0.021 | 6.86 | 1 | 6.86 | 0.01 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 4.94 | 1 | 4.94 | 0.01 | 0.086692674 | 0.428261812 | 0.004282618 | 0.0043 | 1.9 | 1 | 1.9 | 0.01 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 11.15 | 1 | 11.15 | 0.01 | 0.086692674 | 0.96662332 | 0.009666233 | 0.0097 | 5.055 | 1 | 5.055 | 0.01 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.01 | 0.086692674 | | | | | | | 0.01 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 18.9 | 1 | 18.9 | 0.01 | 0.086692674 | 1.638491547 | 0.016384915 | 0.016 | 3.8 | 1 | 3.8 | 0.01 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 34.6 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 | 13.9 | 1 | 13.9 | 0.01 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 26.9 | 1 | 26.9 | 0.01 | 0.086692674 | 2.332032943 | 0.023320329 | 0.023 | 5.4 | 1 | 5.4 | 0.01 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 11.9 | 1 | 11.9 | 0.01 | 0.086692674 | 1.031642826 | 0.010316428 | 0.01 | 2.7 | 1 | 2.7 | 0.01 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 13.1 | 1 | 13.1 | 0.01 | 0.086692674 | 1.135674036 | 0.01135674 | 0.011 | 0.186 | 0 | 0 | 0.01 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 13.8 | 1 | 13.8 | 0.01 | 0.086692674 | 1.196358908 | 0.011963589 | 0.012 | 2.8 | 1 | 2.8 | 0.01 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 109 | 1 | 109 | 0.01 | 0.086692674 | 9.449501517 | 0.094495015 | 0.094 | 24.3 | 1 | 24.3 | 0.01 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 8.87 | 1 | 8.87 | 0.01 | 0.086692674 | 0.768964023 | 0.00768964 | 0.0077 | 1.37 | 1 | 1.37 | 0.01 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 14.3 | 1 | 14.3 | 0.01 | 0.086692674 | 1.239705245 | 0.012397052 | 0.012 | 2.87 | 1 | 2.87 | 0.01 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 20.5 | 1 | 20.5 | 0.01 | 0.086692674 | 1.777199827 | 0.017771998 | 0.018 | 4.19 | 1 | 4.19 | 0.01 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 46.7 | 1 | 46.7 | 0.01 | 0.086692674 | 4.048547898 | 0.040485479 | 0.04 | 13.3 | 1 | 13.3 | 0.01 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 26.7 | 1 | 26.7 | 0.01 | 0.086692674 | 2.314694408 | 0.023146944 | 0.023 | 5.45 | 1 | 5.45 | 0.01 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 64.7 | 1 | 64.7 | 0.01 | 0.086692674 | 5.609016038 | 0.05609016 | 0.056 | 9.18 | 1 | 9.18 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 38.9 | 1 | 38.9 | 0.01 | NA | 0 | 0 | 0 | 10.2 | 1 | 10.2 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 22.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 3.66 | 0 | 0 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 37.8 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 8 | 1 | 8 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 49.4 | 1 | 49.4 | 0.01 | NA | 0 | 0 | 0 | 13.7 | 1 | 13.7 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 42 | 1 | 42 | 0.01 | NA | 0 | 0 | 0 | 11.7 | 1 | 11.7 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 27.9 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 7.46 | 1 | 7.46 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 42.7 | 1 | 42.7 | 0.01 | NA | 0 | 0 | 0 | 9.7 | 1 | 9.7 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 4.83 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 37.7 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 11.9 | 1 | 11.9 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 32 | 1 | 32 | 0.01 | NA | 0 | 0 | 0 | 9.01 | 1 | 9.01 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 27.6 | 1 | 27.6 | 0.01 | NA | 0 | 0 | 0 | 5.05 | 1 | 5.05 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 23.1 | 1 | 23.1 | 0.01 | NA | 0 | 0 | 0 | 4.83 | 1 | 4.83 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 35.6 | 1 | 35.6 | 0.01 | NA | 0 | 0 | 0 | 8.07 | 1 | 8.07 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 34.8 | 1 | 34.8 | 0.01 | NA | 0 | 0 | 0 | 7.25 | 1 | 7.25 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 31.3 | 1 | 31.3 | 0.01 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 25.8 | 1 | 25.8 | 0.01 | NA | 0 | 0 | 0 | 6.66 | 1 | 6.66 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 10.7 | 1 | 10.7 | 0.01 | NA | 0 | 0 | 0 | 2.77 | 1 | 2.77 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 9.46 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 2.78 | 1 | 2.78 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 71.6 | 1 | 71.6 | 0.01 | NA | 0 | 0 | 0 | 16.4 | 1 | 16.4 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 14.1 | 1 | 14.1 | 0.01 | NA | 0 | 0 | 0 | 2.84 | 0 | 0 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 17.4 | 1 | 17.4 | 0.01 | NA | 0 | 0 | 0 | 3.87 | 1 | 3.87 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 28.3 | 1 | 28.3 | 0.01 | NA | 0 | 0 | 0 | 6.25 | 1 | 6.25 | 0.01 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 14.8 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 3.07 | 1 | 3.07 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 21.1 | 1 | 21.1 | 0.01 | NA | 0 | 0 | 0 | 4.39 | 1 | 4.39 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 49.8 | 1 | 49.8 | 0.01 | NA | 0 | 0 | 0 | 9.65 | 1 | 9.65 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 47.3 | 1 | 47.3 | 0.01 | NA | 0 | 0 | 0 | 6.68 | 1 | 6.68 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 45.6 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 11.7 | 1 | 11.7 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 53.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 12.8 | 1 | 12.8 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 13.3 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 3.52 | 1 | 3.52 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 32.4 | 1 | 32.4 | 0.01 | NA | 0 | 0 | 0 | 7.86 | 1 | 7.86 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 43.7 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 9.76 | 1 | 9.76 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 98.9 | 1 | 98.9 | 0.01 | NA | 0 | 0 | 0 | 8.7 | 1 | 8.7 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 40.7 | 1 | 40.7 | 0.01 | NA | 0 | 0 | 0 | 11.4 | 1 | 11.4 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 23.4 | 1 | 23.4 | 0.01 | NA | 0 | 0 | 0 | 4.65 | 1 | 4.65 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 48 | 1 | 48 | 0.01 | NA | 0 | 0 | 0 | 10.7 | 1 | 10.7 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 36.55 | 1 | 36.55 | 0.01 | NA | 0 | 0 | 0 | 8.9 | 1 | 8.9 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 48.2 | 1 | 48.2 | 0.01 | NA | 0 | 0 | 0 | 12.5 | 1 | 12.5 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 44.8 | 1 | 44.8 | 0.01 | NA | 0 | 0 | 0 | 8.51 | 1 | 8.51 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 70.8 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 15.8 | 1 | 15.8 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 45.6 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 13.5 | 1 | 13.5 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 61.8 | 1 | 61.8 | 0.01 | NA | 0 | 0 | 0 | 14.4 | 1 | 14.4 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 21 | 1 | 21 | 0.01 | NA | 0 | 0 | 0 | 3.84 | 1 | 3.84 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 66.7 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 15.1 | 1 | 15.1 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 66.8 | 1 | 66.8 | 0.01 | NA | 0 | 0 | 0 | 12.3 | 1 | 12.3 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 35.6 | 1 | 35.6 | 0.01 | NA | 0 | 0 | 0 | 6.14 | 1 | 6.14 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 26.6 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 5.32 | 1 | 5.32 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 43.7 | 1 | 43.7 | 0.01 | NA | 0 | 0 | 0 | 8.86 | 1 | 8.86 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 68.4 | 1 | 68.4 | 0.01 | NA | 0 | 0 | 0 | 13.8 | 1 | 13.8 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 45 | 1 | 45 | 0.01 | NA | 0 | 0 | 0 | 10.9 | 1 | 10.9 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 14.8 | 1 | 14.8 | 0.01 | NA | 0 | 0 | 0 | 13.5 | 0 | 0 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 38.4 | 1 | 38.4 | 0.01 | NA | 0 | 0 | 0 | 7.84 | 1 | 7.84 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 73 | 1 | 73 | 0.01 | NA | 0 | 0 | 0 | 54.5 | 1 | 54.5 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 58 | 1 | 58 | 0.01 | NA | 0 | 0 | 0 | 10.4 | 1 | 10.4 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 74.1 | 1 | 74.1 | 0.01 | NA | 0 | 0 | 0 | 13.8 | 1 | 13.8 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 34.4 | 1 | 34.4 | 0.01 | NA | 0 | 0 | 0 | 7.86 | 1 | 7.86 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 45 | 1 | 45 | 0.01 | NA | 0 | 0 | 0 | 9.55 | 1 | 9.55 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 49.6 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 10.4 | 1 | 10.4 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 18.9 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 4.43 | 1 | 4.43 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 36.8 | 1 | 36.8 | 0.01 | NA | 0 | 0 | 0 | 7.38 | 1 | 7.38 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 98.5 | 1 | 98.5 | 0.01 | NA | 0 | 0 | 0 | 15.2 | 1 | 15.2 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 48.7 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 18 | 1 | 18 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 34.4 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 7.15 | 1 | 7.15 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 156 | 1 | 156 | 0.01 | NA | 0 | 0 | 0 | 32.1 | 1 | 32.1 | 0.01 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 18.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 3.4 | 1 | 3.4 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 25.2 | 1 | 25.2 | 0.01 | NA | 0 | 0 | 0 | 4.89 | 1 | 4.89 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 46.4 | 1 | 46.4 | 0.01 | NA | 0 | 0 | 0 | 10.3 | 1 | 10.3 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 9.81 | 1 | 9.81 | 0.01 | NA | 0 | 0 | 0 | 1.8 | 1 | 1.8 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 3.3 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.2 | 0 | 0 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 5.9 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.93 | 1 | 0.93 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.34 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.25 | 1 | 0.25 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 16 | 1 | 16 | 0.01 | NA | 0 | 0 | 0 | 3.07 | 1 | 3.07 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 5.9 | 1 | 5.9 | 0.01 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 14.8 | 1 | 14.8 | 0.01 | NA | 0 | 0 | 0 | 3.4 | 1 | 3.4 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 25.9 | 1 | 25.9 | 0.01 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 4.7 | 1 | 4.7 | 0.01 | NA | 0 | 0 | 0 | 1.05 | 1 | 1.05 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 7.8 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 2.15 | 0 | 0 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 6.24 | 1 | 6.24 | 0.01 | NA | 0 | 0 | 0 | 1.03 | 0 | 0 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1.1 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.52 | 0 | 0 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 76.5 | 1 | 76.5 | 0.01 | NA | 0 | 0 | 0 | 18.7 | 1 | 18.7 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1.4 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.93 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.18 | 1 | 0.18 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 4.2 | 1 | 4.2 | 0.01 | NA | 0 | 0 | 0 | 0.7 | 1 | 0.7 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 2.7 | 1 | 2.7 | 0.01 | NA | 0 | 0 | 0 | 0.526 | 0 | 0 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 58.75 | 1 | 58.75 | 0.01 | NA | 0 | 0 | 0 | 13.2 | 1 | 13.2 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 24.6 | 1 | 24.6 | 0.01 | NA | 0 | 0 | 0 | 6.86 | 1 | 6.86 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 4.94 | 1 | 4.94 | 0.01 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 11.15 | 1 | 11.15 | 0.01 | NA | 0 | 0 | 0 | 5.055 | 1 | 5.055 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 18.9 | 1 | 18.9 | 0.01 | NA | 0 | 0 | 0 | 3.8 | 1 | 3.8 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 34.6 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 13.9 | 1 | 13.9 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 26.9 | 1 | 26.9 | 0.01 | NA | 0 | 0 | 0 | 5.4 | 1 | 5.4 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 11.9 | 1 | 11.9 | 0.01 | NA | 0 | 0 | 0 | 2.7 | 1 | 2.7 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 13.1 | 1 | 13.1 | 0.01 | NA | 0 | 0 | 0 | 0.186 | 0 | 0 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 13.8 | 1 | 13.8 | 0.01 | NA | 0 | 0 | 0 | 2.8 | 1 | 2.8 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 109 | 1 | 109 | 0.01 | NA | 0 | 0 | 0 | 24.3 | 1 | 24.3 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 8.87 | 1 | 8.87 | 0.01 | NA | 0 | 0 | 0 | 1.37 | 1 | 1.37 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 14.3 | 1 | 14.3 | 0.01 | NA | 0 | 0 | 0 | 2.87 | 1 | 2.87 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 20.5 | 1 | 20.5 | 0.01 | NA | 0 | 0 | 0 | 4.19 | 1 | 4.19 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 46.7 | 1 | 46.7 | 0.01 | NA | 0 | 0 | 0 | 13.3 | 1 | 13.3 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 26.7 | 1 | 26.7 | 0.01 | NA | 0 | 0 | 0 | 5.45 | 1 | 5.45 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 64.7 | 1 | 64.7 | 0.01 | NA | 0 | 0 | 0 | 9.18 | 1 | 9.18 | 0.01 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 38.9 | 1 | 38.9 | 0.01 | 0.031352632 | 1.219617368 | 0.012196174 | 0.012 | 10.2 | 1 | 10.2 | 0.01 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 22.5 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 3.66 | 0 | 0 | 0.01 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 37.8 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 8 | 1 | 8 | 0.01 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 49.4 | 1 | 49.4 | 0.01 | 0.031352632 | 1.54882 | 0.0154882 | 0.015 | 13.7 | 1 | 13.7 | 0.01 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 42 | 1 | 42 | 0.01 | 0.031352632 | 1.316810526 | 0.013168105 | 0.013 | 11.7 | 1 | 11.7 | 0.01 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 27.9 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 7.46 | 1 | 7.46 | 0.01 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 42.7 | 1 | 42.7 | 0.01 | 0.031352632 | 1.338757368 | 0.013387574 | 0.013 | 9.7 | 1 | 9.7 | 0.01 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 4.83 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.01 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 37.7 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 11.9 | 1 | 11.9 | 0.01 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 32 | 1 | 32 | 0.01 | 0.031352632 | 1.003284211 | 0.010032842 | 0.01 | 9.01 | 1 | 9.01 | 0.01 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 27.6 | 1 | 27.6 | 0.01 | 0.031352632 | 0.865332632 | 0.008653326 | 0.0087 | 5.05 | 1 | 5.05 | 0.01 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 23.1 | 1 | 23.1 | 0.01 | 0.031352632 | 0.724245789 | 0.007242458 | 0.0072 | 4.83 | 1 | 4.83 | 0.01 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 35.6 | 1 | 35.6 | 0.01 | 0.031352632 | 1.116153684 | 0.011161537 | 0.011 | 8.07 | 1 | 8.07 | 0.01 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 34.8 | 1 | 34.8 | 0.01 | 0.031352632 | 1.091071579 | 0.010910716 | 0.011 | 7.25 | 1 | 7.25 | 0.01 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.01 | 0.031352632 | | | | | | | 0.01 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 31.3 | 1 | 31.3 | 0.01 | 0.031352632 | 0.981337368 | 0.009813374 | 0.0098 | 5.7 | 1 | 5.7 | 0.01 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 25.8 | 1 | 25.8 | 0.01 | 0.031352632 | 0.808897895 | 0.008088979 | 0.0081 | 6.66 | 1 | 6.66 | 0.01 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 10.7 | 1 | 10.7 | 0.01 | 0.031352632 | 0.335473158 | 0.003354732 | 0.0034 | 2.77 | 1 | 2.77 | 0.01 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 9.46 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 2.78 | 1 | 2.78 | 0.01 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 71.6 | 1 | 71.6 | 0.01 | 0.031352632 | 2.244848421 | 0.022448484 | 0.022 | 16.4 | 1 | 16.4 | 0.01 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 14.1 | 1 | 14.1 | 0.01 | 0.031352632 | 0.442072105 | 0.004420721 | 0.0044 | 2.84 | 0 | 0 | 0.01 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 17.4 | 1 | 17.4 | 0.01 | 0.031352632 | 0.545535789 | 0.005455358 | 0.0055 | 3.87 | 1 | 3.87 | 0.01 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 28.3 | 1 | 28.3 | 0.01 | 0.031352632 | 0.887279474 | 0.008872795 | 0.0089 | 6.25 | 1 | 6.25 | 0.01 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 14.8 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 3.07 | 1 | 3.07 | 0.01 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 21.1 | 1 | 21.1 | 0.01 | 0.031352632 | 0.661540526 | 0.006615405 | 0.0066 | 4.39 | 1 | 4.39 | 0.01 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 49.8 | 1 | 49.8 | 0.01 | 0.031352632 | 1.561361053 | 0.015613611 | 0.016 | 9.65 | 1 | 9.65 | 0.01 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 47.3 | 1 | 47.3 | 0.01 | 0.031352632 | 1.482979474 | 0.014829795 | 0.015 | 6.68 | 1 | 6.68 | 0.01 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 45.6 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 11.7 | 1 | 11.7 | 0.01 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 53.5 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 12.8 | 1 | 12.8 | 0.01 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 13.3 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 3.52 | 1 | 3.52 | 0.01 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 32.4 | 1 | 32.4 | 0.01 | 0.031352632 | 1.015825263 | 0.010158253 | 0.01 | 7.86 | 1 | 7.86 | 0.01 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 43.7 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 9.76 | 1 | 9.76 | 0.01 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 98.9 | 1 | 98.9 | 0.01 | 0.031352632 | 3.100775263 | 0.031007753 | 0.031 | 8.7 | 1 | 8.7 | 0.01 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 40.7 | 1 | 40.7 | 0.01 | 0.031352632 | 1.276052105 | 0.012760521 | 0.013 | 11.4 | 1 | 11.4 | 0.01 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 23.4 | 1 | 23.4 | 0.01 | 0.031352632 | 0.733651579 | 0.007336516 | 0.0073 | 4.65 | 1 | 4.65 | 0.01 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 48 | 1 | 48 | 0.01 | 0.031352632 | 1.504926316 | 0.015049263 | 0.015 | 10.7 | 1 | 10.7 | 0.01 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 36.55 | 1 | 36.55 | 0.01 | 0.031352632 | 1.145938684 | 0.011459387 | 0.011 | 8.9 | 1 | 8.9 | 0.01 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.01 | 0.031352632 | | | | | | | 0.01 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 48.2 | 1 | 48.2 | 0.01 | 0.031352632 | 1.511196842 | 0.015111968 | 0.015 | 12.5 | 1 | 12.5 | 0.01 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 44.8 | 1 | 44.8 | 0.01 | 0.031352632 | 1.404597895 | 0.014045979 | 0.014 | 8.51 | 1 | 8.51 | 0.01 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 70.8 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 15.8 | 1 | 15.8 | 0.01 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 45.6 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 13.5 | 1 | 13.5 | 0.01 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 61.8 | 1 | 61.8 | 0.01 | 0.031352632 | 1.937592632 | 0.019375926 | 0.019 | 14.4 | 1 | 14.4 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 21 | 1 | 21 | 0.01 | 0.031352632 | 0.658405263 | 0.006584053 | 0.0066 | 3.84 | 1 | 3.84 | 0.01 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 66.7 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 15.1 | 1 | 15.1 | 0.01 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 66.8 | 1 | 66.8 | 0.01 | 0.031352632 | 2.094355789 | 0.020943558 | 0.021 | 12.3 | 1 | 12.3 | 0.01 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 35.6 | 1 | 35.6 | 0.01 | 0.031352632 | 1.116153684 | 0.011161537 | 0.011 | 6.14 | 1 | 6.14 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 26.6 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 5.32 | 1 | 5.32 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 43.7 | 1 | 43.7 | 0.01 | 0.031352632 | 1.37011 | 0.0137011 | 0.014 | 8.86 | 1 | 8.86 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 68.4 | 1 | 68.4 | 0.01 | 0.031352632 | 2.14452 | 0.0214452 | 0.021 | 13.8 | 1 | 13.8 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 45 | 1 | 45 | 0.01 | 0.031352632 | 1.410868421 | 0.014108684 | 0.014 | 10.9 | 1 | 10.9 | 0.01 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 14.8 | 1 | 14.8 | 0.01 | 0.031352632 | 0.464018947 | 0.004640189 | 0.0046 | 13.5 | 0 | 0 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 38.4 | 1 | 38.4 | 0.01 | 0.031352632 | 1.203941053 | 0.012039411 | 0.012 | 7.84 | 1 | 7.84 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 73 | 1 | 73 | 0.01 | 0.031352632 | 2.288742105 | 0.022887421 | 0.023 | 54.5 | 1 | 54.5 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.01 | 0.031352632 | | | | | | | 0.01 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 58 | 1 | 58 | 0.01 | 0.031352632 | 1.818452632 | 0.018184526 | 0.018 | 10.4 | 1 | 10.4 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 74.1 | 1 | 74.1 | 0.01 | 0.031352632 | 2.32323 | 0.0232323 | 0.023 | 13.8 | 1 | 13.8 | 0.01 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 34.4 | 1 | 34.4 | 0.01 | 0.031352632 | 1.078530526 | 0.010785305 | 0.011 | 7.86 | 1 | 7.86 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 45 | 1 | 45 | 0.01 | 0.031352632 | 1.410868421 | 0.014108684 | 0.014 | 9.55 | 1 | 9.55 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 49.6 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 10.4 | 1 | 10.4 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 18.9 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 4.43 | 1 | 4.43 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 36.8 | 1 | 36.8 | 0.01 | 0.031352632 | 1.153776842 | 0.011537768 | 0.012 | 7.38 | 1 | 7.38 | 0.01 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 98.5 | 1 | 98.5 | 0.01 | 0.031352632 | 3.088234211 | 0.030882342 | 0.031 | 15.2 | 1 | 15.2 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 48.7 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 18 | 1 | 18 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 34.4 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 7.15 | 1 | 7.15 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 156 | 1 | 156 | 0.01 | 0.031352632 | 4.891010526 | 0.048910105 | 0.049 | 32.1 | 1 | 32.1 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 18.5 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 3.4 | 1 | 3.4 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 25.2 | 1 | 25.2 | 0.01 | 0.031352632 | 0.790086316 | 0.007900863 | 0.0079 | 4.89 | 1 | 4.89 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 46.4 | 1 | 46.4 | 0.01 | 0.031352632 | 1.454762105 | 0.014547621 | 0.015 | 10.3 | 1 | 10.3 | 0.01 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 9.81 | 1 | 9.81 | 0.01 | 0.031352632 | 0.307569316 | 0.003075693 | 0.0031 | 1.8 | 1 | 1.8 | 0.01 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 3.3 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 0.2 | 0 | 0 | 0.01 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 5.9 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 0.93 | 1 | 0.93 | 0.01 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.34 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 0.25 | 1 | 0.25 | 0.01 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 16 | 1 | 16 | 0.01 | 0.031352632 | 0.501642105 | 0.005016421 | 0.005 | 3.07 | 1 | 3.07 | 0.01 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 5.9 | 1 | 5.9 | 0.01 | 0.031352632 | 0.184980526 | 0.001849805 | 0.0018 | 1.05 | 0 | 0 | 0.01 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 14.8 | 1 | 14.8 | 0.01 | 0.031352632 | 0.464018947 | 0.004640189 | 0.0046 | 3.4 | 1 | 3.4 | 0.01 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 25.9 | 1 | 25.9 | 0.01 | 0.031352632 | 0.812033158 | 0.008120332 | 0.0081 | 5.7 | 1 | 5.7 | 0.01 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 4.7 | 1 | 4.7 | 0.01 | 0.031352632 | 0.147357368 | 0.001473574 | 0.0015 | 1.05 | 1 | 1.05 | 0.01 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.01 | 0.031352632 | | | | | | | 0.01 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 7.8 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 2.15 | 0 | 0 | 0.01 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 6.24 | 1 | 6.24 | 0.01 | 0.031352632 | 0.195640421 | 0.001956404 | 0.002 | 1.03 | 0 | 0 | 0.01 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1.1 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 0.52 | 0 | 0 | 0.01 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 76.5 | 1 | 76.5 | 0.01 | 0.031352632 | 2.398476316 | 0.023984763 | 0.024 | 18.7 | 1 | 18.7 | 0.01 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1.4 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.93 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 0.18 | 1 | 0.18 | 0.01 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 4.2 | 1 | 4.2 | 0.01 | 0.031352632 | 0.131681053 | 0.001316811 | 0.0013 | 0.7 | 1 | 0.7 | 0.01 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 2.7 | 1 | 2.7 | 0.01 | 0.031352632 | 0.084652105 | 0.000846521 | 0.00085 | 0.526 | 0 | 0 | 0.01 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 58.75 | 1 | 58.75 | 0.01 | 0.031352632 | 1.841967105 | 0.018419671 | 0.018 | 13.2 | 1 | 13.2 | 0.01 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.01 | 0.031352632 | | | | | | | 0.01 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 24.6 | 1 | 24.6 | 0.01 | 0.031352632 | 0.771274737 | 0.007712747 | 0.0077 | 6.86 | 1 | 6.86 | 0.01 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 4.94 | 1 | 4.94 | 0.01 | 0.031352632 | 0.154882 | 0.00154882 | 0.0015 | 1.9 | 1 | 1.9 | 0.01 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 11.15 | 1 | 11.15 | 0.01 | 0.031352632 | 0.349581842 | 0.003495818 | 0.0035 | 5.055 | 1 | 5.055 | 0.01 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.01 | 0.031352632 | | | | | | | 0.01 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 18.9 | 1 | 18.9 | 0.01 | 0.031352632 | 0.592564737 | 0.005925647 | 0.0059 | 3.8 | 1 | 3.8 | 0.01 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 34.6 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 | 13.9 | 1 | 13.9 | 0.01 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 26.9 | 1 | 26.9 | 0.01 | 0.031352632 | 0.843385789 | 0.008433858 | 0.0084 | 5.4 | 1 | 5.4 | 0.01 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 11.9 | 1 | 11.9 | 0.01 | 0.031352632 | 0.373096316 | 0.003730963 | 0.0037 | 2.7 | 1 | 2.7 | 0.01 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 13.1 | 1 | 13.1 | 0.01 | 0.031352632 | 0.410719474 | 0.004107195 | 0.0041 | 0.186 | 0 | 0 | 0.01 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 13.8 | 1 | 13.8 | 0.01 | 0.031352632 | 0.432666316 | 0.004326663 | 0.0043 | 2.8 | 1 | 2.8 | 0.01 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 109 | 1 | 109 | 0.01 | 0.031352632 | 3.417436842 | 0.034174368 | 0.034 | 24.3 | 1 | 24.3 | 0.01 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 8.87 | 1 | 8.87 | 0.01 | 0.031352632 | 0.278097842 | 0.002780978 | 0.0028 | 1.37 | 1 | 1.37 | 0.01 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 14.3 | 1 | 14.3 | 0.01 | 0.031352632 | 0.448342632 | 0.004483426 | 0.0045 | 2.87 | 1 | 2.87 | 0.01 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 20.5 | 1 | 20.5 | 0.01 | 0.031352632 | 0.642728947 | 0.006427289 | 0.0064 | 4.19 | 1 | 4.19 | 0.01 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 46.7 | 1 | 46.7 | 0.01 | 0.031352632 | 1.464167895 | 0.014641679 | 0.015 | 13.3 | 1 | 13.3 | 0.01 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 26.7 | 1 | 26.7 | 0.01 | 0.031352632 | 0.837115263 | 0.008371153 | 0.0084 | 5.45 | 1 | 5.45 | 0.01 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 64.7 | 1 | 64.7 | 0.01 | 0.031352632 | 2.028515263 | 0.020285153 | 0.02 | 9.18 | 1 | 9.18 | 0.01 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.55 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 102 | 1 | 102 | 0.01 | NA | 0 | 0 | 0 | 43.8 | 1 | 43.8 | 0.01 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | NA | 0 | 0 | 0 | 6.43 | 1 | 6.43 | 0.01 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.43 | 1 | 3.43 | 0.01 | NA | 0 | 0 | 0 | 0.66 | 1 | 0.66 | 0.01 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.53 | 1 | 1.53 | 0.01 | NA | 0 | 0 | 0 | 0.686 | 1 | 0.686 | 0.01 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.62 | 1 | 4.62 | 0.01 | NA | 0 | 0 | 0 | 0.978 | 1 | 0.978 | 0.01 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 36.3 | 1 | 36.3 | 0.01 | NA | 0 | 0 | 0 | 5.27 | 1 | 5.27 | 0.01 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.6 | 1 | 13.6 | 0.01 | NA | 0 | 0 | 0 | 3.05 | 1 | 3.05 | 0.01 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.85 | 1 | 11.85 | 0.01 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.55 | 0 | 0 | 0.01 | 0.521397723 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 102 | 1 | 102 | 0.01 | 0.521397723 | 53.18256773 | 0.531825677 | 0.53 | 43.8 | 1 | 43.8 | 0.01 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | 0.521397723 | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | 0.521397723 | 13.71276011 | 0.137127601 | 0.14 | 6.43 | 1 | 6.43 | 0.01 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.43 | 1 | 3.43 | 0.01 | 0.521397723 | 1.788394189 | 0.017883942 | 0.018 | 0.66 | 1 | 0.66 | 0.01 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.53 | 1 | 1.53 | 0.01 | 0.521397723 | 0.797738516 | 0.007977385 | 0.008 | 0.686 | 1 | 0.686 | 0.01 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.62 | 1 | 4.62 | 0.01 | 0.521397723 | 2.408857479 | 0.024088575 | 0.024 | 0.978 | 1 | 0.978 | 0.01 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 36.3 | 1 | 36.3 | 0.01 | 0.521397723 | 18.92673734 | 0.189267373 | 0.19 | 5.27 | 1 | 5.27 | 0.01 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.6 | 1 | 13.6 | 0.01 | 0.521397723 | 7.09100903 | 0.07091009 | 0.071 | 3.05 | 1 | 3.05 | 0.01 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.85 | 1 | 11.85 | 0.01 | 0.521397723 | 6.178563015 | 0.06178563 | 0.062 | 3.08 | 1 | 3.08 | 0.01 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | 0.521397723 | | | | | | | 0.01 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 0.521397723 | | | | | | | 0.01 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 0.521397723 | | | | | | | 0.01 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 0.521397723 | | | | | | | 0.01 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.55 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 102 | 1 | 102 | 0.01 | NA | 0 | 0 | 0 | 43.8 | 1 | 43.8 | 0.01 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | NA | 0 | 0 | 0 | 6.43 | 1 | 6.43 | 0.01 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.43 | 1 | 3.43 | 0.01 | NA | 0 | 0 | 0 | 0.66 | 1 | 0.66 | 0.01 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.53 | 1 | 1.53 | 0.01 | NA | 0 | 0 | 0 | 0.686 | 1 | 0.686 | 0.01 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.62 | 1 | 4.62 | 0.01 | NA | 0 | 0 | 0 | 0.978 | 1 | 0.978 | 0.01 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 36.3 | 1 | 36.3 | 0.01 | NA | 0 | 0 | 0 | 5.27 | 1 | 5.27 | 0.01 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.6 | 1 | 13.6 | 0.01 | NA | 0 | 0 | 0 | 3.05 | 1 | 3.05 | 0.01 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.85 | 1 | 11.85 | 0.01 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.55 | 0 | 0 | 0.01 | 2.526414066 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 102 | 1 | 102 | 0.01 | 2.526414066 | 257.6942347 | 2.576942347 | 2.6 | 43.8 | 1 | 43.8 | 0.01 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | 2.526414066 | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | 2.526414066 | 66.44468993 | 0.664446899 | 0.66 | 6.43 | 1 | 6.43 | 0.01 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.43 | 1 | 3.43 | 0.01 | 2.526414066 | 8.665600245 | 0.086656002 | 0.087 | 0.66 | 1 | 0.66 | 0.01 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.53 | 1 | 1.53 | 0.01 | 2.526414066 | 3.86541352 | 0.038654135 | 0.039 | 0.686 | 1 | 0.686 | 0.01 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.62 | 1 | 4.62 | 0.01 | 2.526414066 | 11.67203298 | 0.11672033 | 0.12 | 0.978 | 1 | 0.978 | 0.01 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 36.3 | 1 | 36.3 | 0.01 | 2.526414066 | 91.70883058 | 0.917088306 | 0.92 | 5.27 | 1 | 5.27 | 0.01 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.6 | 1 | 13.6 | 0.01 | 2.526414066 | 34.35923129 | 0.343592313 | 0.34 | 3.05 | 1 | 3.05 | 0.01 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.85 | 1 | 11.85 | 0.01 | 2.526414066 | 29.93800668 | 0.299380067 | 0.3 | 3.08 | 1 | 3.08 | 0.01 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | 2.526414066 | | | | | | | 0.01 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 2.526414066 | | | | | | | 0.01 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 2.526414066 | | | | | | | 0.01 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 2.526414066 | | | | | | | 0.01 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.55 | 0 | 0 | 0.01 | 0.173358313 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 102 | 1 | 102 | 0.01 | 0.173358313 | 17.68254796 | 0.17682548 | 0.18 | 43.8 | 1 | 43.8 | 0.01 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | 0.173358313 | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | 0.173358313 | 4.559323642 | 0.045593236 | 0.046 | 6.43 | 1 | 6.43 | 0.01 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.43 | 1 | 3.43 | 0.01 | 0.173358313 | 0.594619015 | 0.00594619 | 0.0059 | 0.66 | 1 | 0.66 | 0.01 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.53 | 1 | 1.53 | 0.01 | 0.173358313 | 0.265238219 | 0.002652382 | 0.0027 | 0.686 | 1 | 0.686 | 0.01 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.62 | 1 | 4.62 | 0.01 | 0.173358313 | 0.800915408 | 0.008009154 | 0.008 | 0.978 | 1 | 0.978 | 0.01 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 36.3 | 1 | 36.3 | 0.01 | 0.173358313 | 6.292906775 | 0.062929068 | 0.063 | 5.27 | 1 | 5.27 | 0.01 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.6 | 1 | 13.6 | 0.01 | 0.173358313 | 2.357673062 | 0.023576731 | 0.024 | 3.05 | 1 | 3.05 | 0.01 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.85 | 1 | 11.85 | 0.01 | 0.173358313 | 2.054296013 | 0.02054296 | 0.021 | 3.08 | 1 | 3.08 | 0.01 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | 0.173358313 | | | | | | | 0.01 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 0.173358313 | | | | | | | 0.01 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 0.173358313 | | | | | | | 0.01 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 0.173358313 | | | | | | | 0.01 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.55 | 0 | 0 | 0.01 | 0.157188862 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 102 | 1 | 102 | 0.01 | 0.157188862 | 16.0332639 | 0.160332639 | 0.16 | 43.8 | 1 | 43.8 | 0.01 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | 0.157188862 | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | 0.157188862 | 4.134067064 | 0.041340671 | 0.041 | 6.43 | 1 | 6.43 | 0.01 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.43 | 1 | 3.43 | 0.01 | 0.157188862 | 0.539157796 | 0.005391578 | 0.0054 | 0.66 | 1 | 0.66 | 0.01 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.53 | 1 | 1.53 | 0.01 | 0.157188862 | 0.240498958 | 0.00240499 | 0.0024 | 0.686 | 1 | 0.686 | 0.01 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.62 | 1 | 4.62 | 0.01 | 0.157188862 | 0.726212541 | 0.007262125 | 0.0073 | 0.978 | 1 | 0.978 | 0.01 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 36.3 | 1 | 36.3 | 0.01 | 0.157188862 | 5.705955681 | 0.057059557 | 0.057 | 5.27 | 1 | 5.27 | 0.01 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.6 | 1 | 13.6 | 0.01 | 0.157188862 | 2.13776852 | 0.021377685 | 0.021 | 3.05 | 1 | 3.05 | 0.01 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.85 | 1 | 11.85 | 0.01 | 0.157188862 | 1.862688012 | 0.01862688 | 0.019 | 3.08 | 1 | 3.08 | 0.01 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | 0.157188862 | | | | | | | 0.01 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 0.157188862 | | | | | | | 0.01 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 0.157188862 | | | | | | | 0.01 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 0.157188862 | | | | | | | 0.01 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.55 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 102 | 1 | 102 | 0.01 | NA | 0 | 0 | 0 | 43.8 | 1 | 43.8 | 0.01 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | NA | 0 | 0 | 0 | 6.43 | 1 | 6.43 | 0.01 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | NA | 0 | 0 | 0 | 6.43 | 1 | 6.43 | 0.01 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.43 | 1 | 3.43 | 0.01 | NA | 0 | 0 | 0 | 0.66 | 1 | 0.66 | 0.01 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.53 | 1 | 1.53 | 0.01 | NA | 0 | 0 | 0 | 0.686 | 1 | 0.686 | 0.01 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.62 | 1 | 4.62 | 0.01 | NA | 0 | 0 | 0 | 0.978 | 1 | 0.978 | 0.01 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 36.3 | 1 | 36.3 | 0.01 | NA | 0 | 0 | 0 | 5.27 | 1 | 5.27 | 0.01 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.6 | 1 | 13.6 | 0.01 | NA | 0 | 0 | 0 | 3.05 | 1 | 3.05 | 0.01 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.85 | 1 | 11.85 | 0.01 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.55 | 0 | 0 | 0.01 | 0.133533036 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 102 | 1 | 102 | 0.01 | 0.133533036 | 13.62036971 | 0.136203697 | 0.14 | 43.8 | 1 | 43.8 | 0.01 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | 0.133533036 | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | 0.133533036 | 3.511918856 | 0.035119189 | 0.035 | 6.43 | 1 | 6.43 | 0.01 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.43 | 1 | 3.43 | 0.01 | 0.133533036 | 0.458018315 | 0.004580183 | 0.0046 | 0.66 | 1 | 0.66 | 0.01 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.53 | 1 | 1.53 | 0.01 | 0.133533036 | 0.204305546 | 0.002043055 | 0.002 | 0.686 | 1 | 0.686 | 0.01 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.62 | 1 | 4.62 | 0.01 | 0.133533036 | 0.616922628 | 0.006169226 | 0.0062 | 0.978 | 1 | 0.978 | 0.01 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 36.3 | 1 | 36.3 | 0.01 | 0.133533036 | 4.847249219 | 0.048472492 | 0.048 | 5.27 | 1 | 5.27 | 0.01 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.6 | 1 | 13.6 | 0.01 | 0.133533036 | 1.816049294 | 0.018160493 | 0.018 | 3.05 | 1 | 3.05 | 0.01 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.85 | 1 | 11.85 | 0.01 | 0.133533036 | 1.582366481 | 0.015823665 | 0.016 | 3.08 | 1 | 3.08 | 0.01 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | 0.133533036 | | | | | | | 0.01 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 0.133533036 | | | | | | | 0.01 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 0.133533036 | | | | | | | 0.01 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 0.133533036 | | | | | | | 0.01 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.55 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 102 | 1 | 102 | 0.01 | NA | 0 | 0 | 0 | 43.8 | 1 | 43.8 | 0.01 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | NA | 0 | 0 | 0 | 6.43 | 1 | 6.43 | 0.01 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.43 | 1 | 3.43 | 0.01 | NA | 0 | 0 | 0 | 0.66 | 1 | 0.66 | 0.01 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.53 | 1 | 1.53 | 0.01 | NA | 0 | 0 | 0 | 0.686 | 1 | 0.686 | 0.01 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.62 | 1 | 4.62 | 0.01 | NA | 0 | 0 | 0 | 0.978 | 1 | 0.978 | 0.01 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 36.3 | 1 | 36.3 | 0.01 | NA | 0 | 0 | 0 | 5.27 | 1 | 5.27 | 0.01 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.6 | 1 | 13.6 | 0.01 | NA | 0 | 0 | 0 | 3.05 | 1 | 3.05 | 0.01 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.85 | 1 | 11.85 | 0.01 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.55 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 102 | 1 | 102 | 0.01 | NA | 0 | 0 | 0 | 43.8 | 1 | 43.8 | 0.01 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | NA | 0 | 0 | 0 | 6.43 | 1 | 6.43 | 0.01 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.43 | 1 | 3.43 | 0.01 | NA | 0 | 0 | 0 | 0.66 | 1 | 0.66 | 0.01 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.53 | 1 | 1.53 | 0.01 | NA | 0 | 0 | 0 | 0.686 | 1 | 0.686 | 0.01 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.62 | 1 | 4.62 | 0.01 | NA | 0 | 0 | 0 | 0.978 | 1 | 0.978 | 0.01 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 36.3 | 1 | 36.3 | 0.01 | NA | 0 | 0 | 0 | 5.27 | 1 | 5.27 | 0.01 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.6 | 1 | 13.6 | 0.01 | NA | 0 | 0 | 0 | 3.05 | 1 | 3.05 | 0.01 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.85 | 1 | 11.85 | 0.01 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.55 | 0 | 0 | 0.01 | 0.165273588 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 102 | 1 | 102 | 0.01 | 0.165273588 | 16.85790593 | 0.168579059 | 0.17 | 43.8 | 1 | 43.8 | 0.01 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | 0.165273588 | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | 0.165273588 | 4.346695353 | 0.043466954 | 0.043 | 6.43 | 1 | 6.43 | 0.01 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.43 | 1 | 3.43 | 0.01 | 0.165273588 | 0.566888405 | 0.005668884 | 0.0057 | 0.66 | 1 | 0.66 | 0.01 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.53 | 1 | 1.53 | 0.01 | 0.165273588 | 0.252868589 | 0.002528686 | 0.0025 | 0.686 | 1 | 0.686 | 0.01 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.62 | 1 | 4.62 | 0.01 | 0.165273588 | 0.763563974 | 0.00763564 | 0.0076 | 0.978 | 1 | 0.978 | 0.01 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 36.3 | 1 | 36.3 | 0.01 | 0.165273588 | 5.999431228 | 0.059994312 | 0.06 | 5.27 | 1 | 5.27 | 0.01 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.6 | 1 | 13.6 | 0.01 | 0.165273588 | 2.247720791 | 0.022477208 | 0.022 | 3.05 | 1 | 3.05 | 0.01 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.85 | 1 | 11.85 | 0.01 | 0.165273588 | 1.958492013 | 0.01958492 | 0.02 | 3.08 | 1 | 3.08 | 0.01 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | 0.165273588 | | | | | | | 0.01 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 0.165273588 | | | | | | | 0.01 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 0.165273588 | | | | | | | 0.01 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 0.165273588 | | | | | | | 0.01 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.02583585 | 0.26352567 | 0.002635257 | 0.0026 | 72 | 1 | 72 | 0.0003 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.02583585 | 0 | 0 | 0 | 61 | 1 | 61 | 0.0003 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.02583585 | 0.2066868 | 0.002066868 | 0.0021 | 126 | 1 | 126 | 0.0003 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.02583585 | 0.353951145 | 0.003539511 | 0.0035 | 87.8 | 1 | 87.8 | 0.0003 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.02583585 | 0.302279445 | 0.003022794 | 0.003 | 88.7 | 1 | 88.7 | 0.0003 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.02583585 | 0.192735441 | 0.001927354 | 0.0019 | 62.3 | 1 | 62.3 | 0.0003 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.02583585 | 0.250607745 | 0.002506077 | 0.0025 | 68.3 | 1 | 68.3 | 0.0003 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.02583585 | 0.028419435 | 0.000284194 | 0.00028 | 7.73 | 1 | 7.73 | 0.0003 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.02583585 | 0.307446615 | 0.003074466 | 0.0031 | 72.5 | 1 | 72.5 | 0.0003 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.02583585 | 0.232781008 | 0.00232781 | 0.0023 | 63.7 | 1 | 63.7 | 0.0003 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.02583585 | 0.130471042 | 0.00130471 | 0.0013 | 55.3 | 1 | 55.3 | 0.0003 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.02583585 | 0.124787155 | 0.001247872 | 0.0012 | 39.9 | 1 | 39.9 | 0.0003 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.02583585 | 0.208495309 | 0.002084953 | 0.0021 | 52.5 | 1 | 52.5 | 0.0003 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.02583585 | 0.187309912 | 0.001873099 | 0.0019 | 59.5 | 1 | 59.5 | 0.0003 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.02583585 | | | | | | | 0.0003 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.02583585 | 0.147264345 | 0.001472643 | 0.0015 | 55.7 | 0 | 0 | 0.0003 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.02583585 | 0.172066761 | 0.001720668 | 0.0017 | 60.7 | 1 | 60.7 | 0.0003 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.02583585 | 0.071565304 | 0.000715653 | 0.00072 | 23 | 1 | 23 | 0.0003 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.02583585 | 0.071823663 | 0.000718237 | 0.00072 | 19 | 1 | 19 | 0.0003 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.02583585 | 0.42370794 | 0.004237079 | 0.0042 | 141 | 1 | 141 | 0.0003 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.02583585 | 0 | 0 | 0 | 28.6 | 0 | 0 | 0.0003 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.02583585 | 0.099984739 | 0.000999847 | 0.001 | 33 | 1 | 33 | 0.0003 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.02583585 | 0.161474062 | 0.001614741 | 0.0016 | 55.3 | 1 | 55.3 | 0.0003 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.02583585 | 0.079316059 | 0.000793161 | 0.00079 | 25.1 | 1 | 25.1 | 0.0003 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.02583585 | 0.113419381 | 0.001134194 | 0.0011 | 33.7 | 1 | 33.7 | 0.0003 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.02583585 | 0.249315952 | 0.00249316 | 0.0025 | 75.4 | 1 | 75.4 | 0.0003 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.02583585 | 0.172583478 | 0.001725835 | 0.0017 | 70.3 | 1 | 70.3 | 0.0003 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.02583585 | 0.302279445 | 0.003022794 | 0.003 | 92.6 | 1 | 92.6 | 0.0003 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.02583585 | 0.33069888 | 0.003306989 | 0.0033 | 122 | 1 | 122 | 0.0003 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.02583585 | 0.090942192 | 0.000909422 | 0.00091 | 24.7 | 1 | 24.7 | 0.0003 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.02583585 | 0.203069781 | 0.002030698 | 0.002 | 58.3 | 1 | 58.3 | 0.0003 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.02583585 | 0.252157896 | 0.002521579 | 0.0025 | 83.2 | 1 | 83.2 | 0.0003 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.02583585 | 0.224771895 | 0.002247719 | 0.0022 | 252 | 1 | 252 | 0.0003 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.02583585 | 0.29452869 | 0.002945287 | 0.0029 | 77.2 | 1 | 77.2 | 0.0003 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.02583585 | 0.120136702 | 0.001201367 | 0.0012 | 37.2 | 1 | 37.2 | 0.0003 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.02583585 | 0.276443595 | 0.002764436 | 0.0028 | 85.5 | 1 | 85.5 | 0.0003 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.02583585 | 0.229939065 | 0.002299391 | 0.0023 | 66.3 | 1 | 66.3 | 0.0003 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.02583585 | | | | | | | 0.0003 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.02583585 | 0.322948125 | 0.003229481 | 0.0032 | 99.7 | 1 | 99.7 | 0.0003 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.02583585 | 0.219863083 | 0.002198631 | 0.0022 | 102 | 1 | 102 | 0.0003 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.02583585 | 0.40820643 | 0.004082064 | 0.0041 | 135 | 1 | 135 | 0.0003 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.02583585 | 0.348783975 | 0.00348784 | 0.0035 | 95 | 1 | 95 | 0.0003 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.02583585 | 0.37203624 | 0.003720362 | 0.0037 | 139 | 1 | 139 | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.02583585 | 0.099209664 | 0.000992097 | 0.00099 | 34.7 | 1 | 34.7 | 0.0003 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.02583585 | 0.390121335 | 0.003901213 | 0.0039 | 121 | 1 | 121 | 0.0003 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.02583585 | 0.317780955 | 0.00317781 | 0.0032 | 121 | 1 | 121 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.02583585 | 0.158632119 | 0.001586321 | 0.0016 | 65.2 | 1 | 65.2 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.02583585 | 0.137446722 | 0.001374467 | 0.0014 | 47.3 | 1 | 47.3 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.02583585 | 0.228905631 | 0.002289056 | 0.0023 | 80.3 | 1 | 80.3 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.02583585 | 0.35653473 | 0.003565347 | 0.0036 | 106 | 1 | 106 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.02583585 | 0.281610765 | 0.002816108 | 0.0028 | 64.3 | 1 | 64.3 | 0.0003 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.02583585 | 0 | 0 | 0 | 55.7 | 1 | 55.7 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.02583585 | 0.202553064 | 0.002025531 | 0.002 | 62.2 | 1 | 62.2 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.02583585 | 1.408053824 | 0.014080538 | 0.014 | 158 | 1 | 158 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.02583585 | | | | | | | 0.0003 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.02583585 | 0.26869284 | 0.002686928 | 0.0027 | 93 | 1 | 93 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.02583585 | 0.35653473 | 0.003565347 | 0.0036 | 126 | 1 | 126 | 0.0003 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.02583585 | 0.203069781 | 0.002030698 | 0.002 | 62.9 | 1 | 62.9 | 0.0003 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.02583585 | 0.246732367 | 0.002467324 | 0.0025 | 82 | 1 | 82 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.02583585 | 0.26869284 | 0.002686928 | 0.0027 | 111 | 1 | 111 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.02583585 | 0.114452815 | 0.001144528 | 0.0011 | 40.4 | 1 | 40.4 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.02583585 | 0.190668573 | 0.001906686 | 0.0019 | 67.7 | 1 | 67.7 | 0.0003 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.02583585 | 0.39270492 | 0.003927049 | 0.0039 | 166 | 1 | 166 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.02583585 | 0.4650453 | 0.004650453 | 0.0047 | 106 | 1 | 106 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.02583585 | 0.184726327 | 0.001847263 | 0.0018 | 73.4 | 1 | 73.4 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.02583585 | 0.829330785 | 0.008293308 | 0.0083 | 237 | 1 | 237 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.02583585 | 0.08784189 | 0.000878419 | 0.00088 | 28.7 | 1 | 28.7 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.02583585 | 0.126337306 | 0.001263373 | 0.0013 | 49 | 1 | 49 | 0.0003 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.02583585 | 0.266109255 | 0.002661093 | 0.0027 | 69 | 1 | 69 | 0.0003 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.02583585 | 0.04650453 | 0.000465045 | 0.00047 | 20 | 1 | 20 | 0.0003 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.02583585 | 0 | 0 | 0 | 4.46 | 1 | 4.46 | 0.0003 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.02583585 | 0.02402734 | 0.000240273 | 0.00024 | 9.74 | 1 | 9.74 | 0.0003 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.02583585 | 0.006458962 | 6.45896E-05 | 0.000065 | 0.74 | 0 | 0 | 0.0003 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.02583585 | 0.079316059 | 0.000793161 | 0.00079 | 29.8 | 1 | 29.8 | 0.0003 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.02583585 | 0 | 0 | 0 | 11 | 1 | 11 | 0.0003 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.02583585 | 0.08784189 | 0.000878419 | 0.00088 | 32 | 1 | 32 | 0.0003 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.02583585 | 0.147264345 | 0.001472643 | 0.0015 | 50 | 1 | 50 | 0.0003 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.02583585 | 0.027127642 | 0.000271276 | 0.00027 | 8.5 | 1 | 8.5 | 0.0003 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.02583585 | | | | | | | 0.0003 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.02583585 | 0 | 0 | 0 | 15.7 | 1 | 15.7 | 0.0003 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.02583585 | 0 | 0 | 0 | 11.5 | 1 | 11.5 | 0.0003 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.02583585 | 0 | 0 | 0 | 2.24 | 1 | 2.24 | 0.0003 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.02583585 | 0.483130395 | 0.004831304 | 0.0048 | 127 | 1 | 127 | 0.0003 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.02583585 | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.0003 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.02583585 | 0.004650453 | 4.65045E-05 | 0.000047 | 2.33 | 1 | 2.33 | 0.0003 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.02583585 | 0.018085095 | 0.000180851 | 0.00018 | 7 | 1 | 7 | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.02583585 | 0 | 0 | 0 | 5 | 1 | 5 | 0.0003 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.02583585 | 0.34103322 | 0.003410332 | 0.0034 | 113.5 | 1 | 113.5 | 0.0003 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.02583585 | | | | | | | 0.0003 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.02583585 | 0.177233931 | 0.001772339 | 0.0018 | 50.6 | 1 | 50.6 | 0.0003 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.02583585 | 0.049088115 | 0.000490881 | 0.00049 | 9.79 | 1 | 9.79 | 0.0003 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.02583585 | 0.130600222 | 0.001306002 | 0.0013 | 19.6 | 1 | 19.6 | 0.0003 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.02583585 | | | | | | | 0.0003 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.02583585 | 0.09817623 | 0.000981762 | 0.00098 | 41 | 1 | 41 | 0.0003 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.02583585 | 0.359118315 | 0.003591183 | 0.0036 | 78 | 1 | 78 | 0.0003 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.02583585 | 0.13951359 | 0.001395136 | 0.0014 | 48 | 1 | 48 | 0.0003 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.02583585 | 0.069756795 | 0.000697568 | 0.0007 | 26 | 1 | 26 | 0.0003 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.02583585 | 0 | 0 | 0 | 26 | 1 | 26 | 0.0003 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.02583585 | 0.07234038 | 0.000723404 | 0.00072 | 23 | 1 | 23 | 0.0003 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.02583585 | 0.627811155 | 0.006278112 | 0.0063 | 216 | 1 | 216 | 0.0003 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.02583585 | 0.035395114 | 0.000353951 | 0.00035 | 16.3 | 1 | 16.3 | 0.0003 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.02583585 | 0.074148889 | 0.000741489 | 0.00074 | 31.4 | 1 | 31.4 | 0.0003 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.02583585 | 0.108252211 | 0.001082522 | 0.0011 | 42.5 | 1 | 42.5 | 0.0003 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.02583585 | 0.343616805 | 0.003436168 | 0.0034 | 89.1 | 1 | 89.1 | 0.0003 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.02583585 | 0.140805382 | 0.001408054 | 0.0014 | 51.6 | 1 | 51.6 | 0.0003 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.02583585 | 0.237173103 | 0.002371731 | 0.0024 | 90.2 | 1 | 90.2 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 72 | 1 | 72 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 61 | 1 | 61 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 126 | 1 | 126 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 87.8 | 1 | 87.8 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 88.7 | 1 | 88.7 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 62.3 | 1 | 62.3 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 68.3 | 1 | 68.3 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 7.73 | 1 | 7.73 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 72.5 | 1 | 72.5 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 63.7 | 1 | 63.7 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 55.3 | 1 | 55.3 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 39.9 | 1 | 39.9 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 52.5 | 1 | 52.5 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 59.5 | 1 | 59.5 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 55.7 | 0 | 0 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 60.7 | 1 | 60.7 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 23 | 1 | 23 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 19 | 1 | 19 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 141 | 1 | 141 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 28.6 | 0 | 0 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 33 | 1 | 33 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 55.3 | 1 | 55.3 | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 25.1 | 1 | 25.1 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 33.7 | 1 | 33.7 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 75.4 | 1 | 75.4 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 70.3 | 1 | 70.3 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 92.6 | 1 | 92.6 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 122 | 1 | 122 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 24.7 | 1 | 24.7 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 58.3 | 1 | 58.3 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 83.2 | 1 | 83.2 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 252 | 1 | 252 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 77.2 | 1 | 77.2 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 37.2 | 1 | 37.2 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 85.5 | 1 | 85.5 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 66.3 | 1 | 66.3 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 99.7 | 1 | 99.7 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 102 | 1 | 102 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 135 | 1 | 135 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 95 | 1 | 95 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 139 | 1 | 139 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 34.7 | 1 | 34.7 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 121 | 1 | 121 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 121 | 1 | 121 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 65.2 | 1 | 65.2 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 47.3 | 1 | 47.3 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 80.3 | 1 | 80.3 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 106 | 1 | 106 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 64.3 | 1 | 64.3 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 55.7 | 1 | 55.7 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 62.2 | 1 | 62.2 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 158 | 1 | 158 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 93 | 1 | 93 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 126 | 1 | 126 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 62.9 | 1 | 62.9 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 82 | 1 | 82 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 111 | 1 | 111 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 40.4 | 1 | 40.4 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 67.7 | 1 | 67.7 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 166 | 1 | 166 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 106 | 1 | 106 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 73.4 | 1 | 73.4 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 237 | 1 | 237 | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 28.7 | 1 | 28.7 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 49 | 1 | 49 | 0.0003 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 69 | 1 | 69 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 20 | 1 | 20 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 4.46 | 1 | 4.46 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 9.74 | 1 | 9.74 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 0.74 | 0 | 0 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 29.8 | 1 | 29.8 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 11 | 1 | 11 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 32 | 1 | 32 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 50 | 1 | 50 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 8.5 | 1 | 8.5 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 15.7 | 1 | 15.7 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 11.5 | 1 | 11.5 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 2.24 | 1 | 2.24 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 127 | 1 | 127 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 2.33 | 1 | 2.33 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 7 | 1 | 7 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 5 | 1 | 5 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 113.5 | 1 | 113.5 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 50.6 | 1 | 50.6 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 9.79 | 1 | 9.79 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 19.6 | 1 | 19.6 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 41 | 1 | 41 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 78 | 1 | 78 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 48 | 1 | 48 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 26 | 1 | 26 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 26 | 1 | 26 | 0.0003 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 23 | 1 | 23 | 0.0003 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 216 | 1 | 216 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 16.3 | 1 | 16.3 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 31.4 | 1 | 31.4 | 0.0003 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 42.5 | 1 | 42.5 | 0.0003 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 89.1 | 1 | 89.1 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 51.6 | 1 | 51.6 | 0.0003 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 90.2 | 1 | 90.2 | 0.0003 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.029052632 | 0.296336842 | 0.002963368 | 0.003 | 72 | 1 | 72 | 0.0003 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.029052632 | 0 | 0 | 0 | 61 | 1 | 61 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.029052632 | 0.232421053 | 0.002324211 | 0.0023 | 126 | 1 | 126 | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.029052632 | 0.398021053 | 0.003980211 | 0.004 | 87.8 | 1 | 87.8 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.029052632 | 0.339915789 | 0.003399158 | 0.0034 | 88.7 | 1 | 88.7 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.029052632 | 0.216732632 | 0.002167326 | 0.0022 | 62.3 | 1 | 62.3 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.029052632 | 0.281810526 | 0.002818105 | 0.0028 | 68.3 | 1 | 68.3 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.029052632 | 0.031957895 | 0.000319579 | 0.00032 | 7.73 | 1 | 7.73 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.029052632 | 0.345726316 | 0.003457263 | 0.0035 | 72.5 | 1 | 72.5 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.029052632 | 0.261764211 | 0.002617642 | 0.0026 | 63.7 | 1 | 63.7 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.029052632 | 0.146715789 | 0.001467158 | 0.0015 | 55.3 | 1 | 55.3 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.029052632 | 0.140324211 | 0.001403242 | 0.0014 | 39.9 | 1 | 39.9 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.029052632 | 0.234454737 | 0.002344547 | 0.0023 | 52.5 | 1 | 52.5 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.029052632 | 0.210631579 | 0.002106316 | 0.0021 | 59.5 | 1 | 59.5 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.029052632 | | | | | | | 0.0003 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.029052632 | 0.1656 | 0.001656 | 0.0017 | 55.7 | 0 | 0 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.029052632 | 0.193490526 | 0.001934905 | 0.0019 | 60.7 | 1 | 60.7 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.029052632 | 0.080475789 | 0.000804758 | 0.0008 | 23 | 1 | 23 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.029052632 | 0.080766316 | 0.000807663 | 0.00081 | 19 | 1 | 19 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.029052632 | 0.476463158 | 0.004764632 | 0.0048 | 141 | 1 | 141 | 0.0003 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.029052632 | 0 | 0 | 0 | 28.6 | 0 | 0 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.029052632 | 0.112433684 | 0.001124337 | 0.0011 | 33 | 1 | 33 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.029052632 | 0.181578947 | 0.001815789 | 0.0018 | 55.3 | 1 | 55.3 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.029052632 | 0.089191579 | 0.000891916 | 0.00089 | 25.1 | 1 | 25.1 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.029052632 | 0.127541053 | 0.001275411 | 0.0013 | 33.7 | 1 | 33.7 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.029052632 | 0.280357895 | 0.002803579 | 0.0028 | 75.4 | 1 | 75.4 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.029052632 | 0.194071579 | 0.001940716 | 0.0019 | 70.3 | 1 | 70.3 | 0.0003 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.029052632 | 0.339915789 | 0.003399158 | 0.0034 | 92.6 | 1 | 92.6 | 0.0003 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.029052632 | 0.371873684 | 0.003718737 | 0.0037 | 122 | 1 | 122 | 0.0003 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.029052632 | 0.102265263 | 0.001022653 | 0.001 | 24.7 | 1 | 24.7 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.029052632 | 0.228353684 | 0.002283537 | 0.0023 | 58.3 | 1 | 58.3 | 0.0003 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.029052632 | 0.283553684 | 0.002835537 | 0.0028 | 83.2 | 1 | 83.2 | 0.0003 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.029052632 | 0.252757895 | 0.002527579 | 0.0025 | 252 | 1 | 252 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.029052632 | 0.3312 | 0.003312 | 0.0033 | 77.2 | 1 | 77.2 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.029052632 | 0.135094737 | 0.001350947 | 0.0014 | 37.2 | 1 | 37.2 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.029052632 | 0.310863158 | 0.003108632 | 0.0031 | 85.5 | 1 | 85.5 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.029052632 | 0.258568421 | 0.002585684 | 0.0026 | 66.3 | 1 | 66.3 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.029052632 | | | | | | | 0.0003 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.029052632 | 0.363157895 | 0.003631579 | 0.0036 | 99.7 | 1 | 99.7 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.029052632 | 0.247237895 | 0.002472379 | 0.0025 | 102 | 1 | 102 | 0.0003 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.029052632 | 0.459031579 | 0.004590316 | 0.0046 | 135 | 1 | 135 | 0.0003 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.029052632 | 0.392210526 | 0.003922105 | 0.0039 | 95 | 1 | 95 | 0.0003 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.029052632 | 0.418357895 | 0.004183579 | 0.0042 | 139 | 1 | 139 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.029052632 | 0.111562105 | 0.001115621 | 0.0011 | 34.7 | 1 | 34.7 | 0.0003 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.029052632 | 0.438694737 | 0.004386947 | 0.0044 | 121 | 1 | 121 | 0.0003 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.029052632 | 0.357347368 | 0.003573474 | 0.0036 | 121 | 1 | 121 | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.029052632 | 0.178383158 | 0.001783832 | 0.0018 | 65.2 | 1 | 65.2 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.029052632 | 0.15456 | 0.0015456 | 0.0015 | 47.3 | 1 | 47.3 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.029052632 | 0.257406316 | 0.002574063 | 0.0026 | 80.3 | 1 | 80.3 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.029052632 | 0.400926316 | 0.004009263 | 0.004 | 106 | 1 | 106 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.029052632 | 0.316673684 | 0.003166737 | 0.0032 | 64.3 | 1 | 64.3 | 0.0003 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.029052632 | 0 | 0 | 0 | 55.7 | 1 | 55.7 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.029052632 | 0.227772632 | 0.002277726 | 0.0023 | 62.2 | 1 | 62.2 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.029052632 | 1.583368421 | 0.015833684 | 0.016 | 158 | 1 | 158 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.029052632 | | | | | | | 0.0003 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.029052632 | 0.302147368 | 0.003021474 | 0.003 | 93 | 1 | 93 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.029052632 | 0.400926316 | 0.004009263 | 0.004 | 126 | 1 | 126 | 0.0003 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.029052632 | 0.228353684 | 0.002283537 | 0.0023 | 62.9 | 1 | 62.9 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.029052632 | 0.277452632 | 0.002774526 | 0.0028 | 82 | 1 | 82 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.029052632 | 0.302147368 | 0.003021474 | 0.003 | 111 | 1 | 111 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.029052632 | 0.128703158 | 0.001287032 | 0.0013 | 40.4 | 1 | 40.4 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.029052632 | 0.214408421 | 0.002144084 | 0.0021 | 67.7 | 1 | 67.7 | 0.0003 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.029052632 | 0.4416 | 0.004416 | 0.0044 | 166 | 1 | 166 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.029052632 | 0.522947368 | 0.005229474 | 0.0052 | 106 | 1 | 106 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.029052632 | 0.207726316 | 0.002077263 | 0.0021 | 73.4 | 1 | 73.4 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.029052632 | 0.932589474 | 0.009325895 | 0.0093 | 237 | 1 | 237 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.029052632 | 0.098778947 | 0.000987789 | 0.00099 | 28.7 | 1 | 28.7 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.029052632 | 0.142067368 | 0.001420674 | 0.0014 | 49 | 1 | 49 | 0.0003 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.029052632 | 0.299242105 | 0.002992421 | 0.003 | 69 | 1 | 69 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.029052632 | 0.052294737 | 0.000522947 | 0.00052 | 20 | 1 | 20 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.029052632 | 0 | 0 | 0 | 4.46 | 1 | 4.46 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.029052632 | 0.027018947 | 0.000270189 | 0.00027 | 9.74 | 1 | 9.74 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.029052632 | 0.007263158 | 7.26316E-05 | 0.000073 | 0.74 | 0 | 0 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.029052632 | 0.089191579 | 0.000891916 | 0.00089 | 29.8 | 1 | 29.8 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.029052632 | 0 | 0 | 0 | 11 | 1 | 11 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.029052632 | 0.098778947 | 0.000987789 | 0.00099 | 32 | 1 | 32 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.029052632 | 0.1656 | 0.001656 | 0.0017 | 50 | 1 | 50 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.029052632 | 0.030505263 | 0.000305053 | 0.00031 | 8.5 | 1 | 8.5 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.029052632 | | | | | | | 0.0003 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.029052632 | 0 | 0 | 0 | 15.7 | 1 | 15.7 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.029052632 | 0 | 0 | 0 | 11.5 | 1 | 11.5 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.029052632 | 0 | 0 | 0 | 2.24 | 1 | 2.24 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.029052632 | 0.543284211 | 0.005432842 | 0.0054 | 127 | 1 | 127 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.029052632 | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.029052632 | 0.005229474 | 5.22947E-05 | 0.000052 | 2.33 | 1 | 2.33 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.029052632 | 0.020336842 | 0.000203368 | 0.0002 | 7 | 1 | 7 | 0.0003 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.029052632 | 0 | 0 | 0 | 5 | 1 | 5 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.029052632 | 0.383494737 | 0.003834947 | 0.0038 | 113.5 | 1 | 113.5 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.029052632 | | | | | | | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.029052632 | 0.199301053 | 0.001993011 | 0.002 | 50.6 | 1 | 50.6 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.029052632 | 0.0552 | 0.000552 | 0.00055 | 9.79 | 1 | 9.79 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.029052632 | 0.146861053 | 0.001468611 | 0.0015 | 19.6 | 1 | 19.6 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.029052632 | | | | | | | 0.0003 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.029052632 | 0.1104 | 0.001104 | 0.0011 | 41 | 1 | 41 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.029052632 | 0.403831579 | 0.004038316 | 0.004 | 78 | 1 | 78 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.029052632 | 0.156884211 | 0.001568842 | 0.0016 | 48 | 1 | 48 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.029052632 | 0.078442105 | 0.000784421 | 0.00078 | 26 | 1 | 26 | 0.0003 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.029052632 | 0 | 0 | 0 | 26 | 1 | 26 | 0.0003 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.029052632 | 0.081347368 | 0.000813474 | 0.00081 | 23 | 1 | 23 | 0.0003 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.029052632 | 0.705978947 | 0.007059789 | 0.0071 | 216 | 1 | 216 | 0.0003 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.029052632 | 0.039802105 | 0.000398021 | 0.0004 | 16.3 | 1 | 16.3 | 0.0003 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.029052632 | 0.083381053 | 0.000833811 | 0.00083 | 31.4 | 1 | 31.4 | 0.0003 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.029052632 | 0.121730526 | 0.001217305 | 0.0012 | 42.5 | 1 | 42.5 | 0.0003 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.029052632 | 0.3864 | 0.003864 | 0.0039 | 89.1 | 1 | 89.1 | 0.0003 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.029052632 | 0.158336842 | 0.001583368 | 0.0016 | 51.6 | 1 | 51.6 | 0.0003 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.029052632 | 0.266703158 | 0.002667032 | 0.0027 | 90.2 | 1 | 90.2 | 0.0003 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0003 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0003 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0003 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0003 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0003 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0003 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0003 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0003 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0003 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0003 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0003 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0003 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0003 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0003 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0003 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0003 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0003 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0003 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0003 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0003 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0003 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0003 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0003 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0003 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0003 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0003 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0003 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0003 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0003 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0003 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.979799536 | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0003 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.979799536 | 42.91521968 | 0.429152197 | 0.43 | 299 | 1 | 299 | 0.0003 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.979799536 | 0.431111796 | 0.004311118 | 0.0043 | 3.9 | 1 | 3.9 | 0.0003 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.979799536 | 6.300111018 | 0.06300111 | 0.063 | 48.5 | 1 | 48.5 | 0.0003 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.979799536 | 0.646667694 | 0.006466677 | 0.0065 | 5.56 | 1 | 5.56 | 0.0003 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.979799536 | 0.672142482 | 0.006721425 | 0.0067 | 2.89 | 1 | 2.89 | 0.0003 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.979799536 | 0.958243946 | 0.009582439 | 0.0096 | 7.71 | 1 | 7.71 | 0.0003 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.979799536 | 5.163543556 | 0.051635436 | 0.052 | 61.4 | 1 | 61.4 | 0.0003 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.979799536 | 2.988388585 | 0.029883886 | 0.03 | 26.1 | 1 | 26.1 | 0.0003 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.979799536 | 3.017782571 | 0.030177826 | 0.03 | 16.15 | 1 | 16.15 | 0.0003 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.979799536 | | | | | | | 0.0003 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.979799536 | | | | | | | 0.0003 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.979799536 | | | | | | | 0.0003 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.979799536 | | | | | | | 0.0003 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0003 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0003 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0003 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0003 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0003 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0003 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0003 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0003 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0003 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0003 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0003 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0003 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0003 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0003 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0003 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0003 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0003 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0003 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0003 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0003 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0003 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0003 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0003 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0003 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0003 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0003 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0003 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0003 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0003 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0003 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0003 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0003 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0003 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0003 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0003 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0003 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0003 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0003 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0003 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0003 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0003 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0003 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0003 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0003 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0003 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0003 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0003 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0003 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0003 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0003 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0003 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0003 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0003 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0003 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0003 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0003 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0003 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0003 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0003 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0003 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.0003 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.0003 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0003 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0003 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0003 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0003 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0003 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0003 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0003 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0003 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0003 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0003 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.0003 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.0003 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.0003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.015614676 | 1.12425669 | 0.000337277 | 0.00034 | 100000 | 1 | 100000 | 0.00003 | 0.541795666 | 54179.56656 | 1.625386997 | 1.6 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.015614676 | 0.952495251 | 0.000285749 | 0.00029 | 33000 | 1 | 33000 | 0.00003 | 0.541795666 | 17879.25697 | 0.536377709 | 0.54 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.015614676 | 1.967449207 | 0.000590235 | 0.00059 | 49000 | 1 | 49000 | 0.00003 | 0.541795666 | 26547.98762 | 0.796439628 | 0.8 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.015614676 | 1.370968574 | 0.000411291 | 0.00041 | 93000 | 1 | 93000 | 0.00003 | 0.541795666 | 50386.9969 | 1.511609907 | 1.5 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.015614676 | 1.385021783 | 0.000415507 | 0.00042 | 83000 | 1 | 83000 | 0.00003 | 0.541795666 | 44969.04025 | 1.349071207 | 1.3 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.015614676 | 0.97279433 | 0.000291838 | 0.00029 | 53000 | 1 | 53000 | 0.00003 | 0.541795666 | 28715.17028 | 0.861455108 | 0.86 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.015614676 | 1.066482388 | 0.000319945 | 0.00032 | 72000 | 1 | 72000 | 0.00003 | 0.541795666 | 39009.28793 | 1.170278638 | 1.2 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.015614676 | 0.120701447 | 3.62104E-05 | 0.000036 | 13000 | 1 | 13000 | 0.00003 | 0.541795666 | 7043.343653 | 0.21130031 | 0.21 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.015614676 | 1.132064028 | 0.000339619 | 0.00034 | 140000 | 1 | 140000 | 0.00003 | 0.541795666 | 75851.39319 | 2.275541796 | 2.3 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.015614676 | 0.994654877 | 0.000298396 | 0.0003 | 47000 | 1 | 47000 | 0.00003 | 0.541795666 | 25464.39628 | 0.763931889 | 0.76 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.015614676 | 0.863491596 | 0.000259047 | 0.00026 | 46000 | 1 | 46000 | 0.00003 | 0.541795666 | 24922.60062 | 0.747678019 | 0.75 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.015614676 | 0.623025582 | 0.000186908 | 0.00019 | 51000 | 1 | 51000 | 0.00003 | 0.541795666 | 27631.57895 | 0.828947368 | 0.83 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.015614676 | 0.819770503 | 0.000245931 | 0.00025 | 88000 | 1 | 88000 | 0.00003 | 0.541795666 | 47678.01858 | 1.430340557 | 1.4 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.015614676 | 0.929073237 | 0.000278722 | 0.00028 | 67000 | 1 | 67000 | 0.00003 | 0.541795666 | 36300.3096 | 1.089009288 | 1.1 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.015614676 | | | | 15000 | 1 | 15000 | 0.00003 | 0.541795666 | 8126.934985 | 0.24380805 | 0.24 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.015614676 | 0 | 0 | 0 | 55000 | 1 | 55000 | 0.00003 | 0.541795666 | 29798.76161 | 0.893962848 | 0.89 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.015614676 | 0.947810848 | 0.000284343 | 0.00028 | 28000 | 1 | 28000 | 0.00003 | 0.541795666 | 15170.27864 | 0.455108359 | 0.46 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.015614676 | 0.359137554 | 0.000107741 | 0.00011 | 15000 | 1 | 15000 | 0.00003 | 0.541795666 | 8126.934985 | 0.24380805 | 0.24 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.015614676 | 0.296678849 | 8.90037E-05 | 0.000089 | 12000 | 1 | 12000 | 0.00003 | 0.541795666 | 6501.547988 | 0.19504644 | 0.2 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.015614676 | 2.201669351 | 0.000660501 | 0.00066 | 130000 | 1 | 130000 | 0.00003 | 0.541795666 | 70433.43653 | 2.113003096 | 2.1 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.015614676 | 0 | 0 | 0 | 19000 | 1 | 19000 | 0.00003 | 0.541795666 | 10294.11765 | 0.308823529 | 0.31 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.015614676 | 0.515284316 | 0.000154585 | 0.00015 | 13000 | 1 | 13000 | 0.00003 | 0.541795666 | 7043.343653 | 0.21130031 | 0.21 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.015614676 | 0.863491596 | 0.000259047 | 0.00026 | 60000 | 1 | 60000 | 0.00003 | 0.541795666 | 32507.73994 | 0.975232198 | 0.98 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.015614676 | 0.391928374 | 0.000117579 | 0.00012 | 38000 | 1 | 38000 | 0.00003 | 0.541795666 | 20588.23529 | 0.617647059 | 0.62 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.015614676 | 0.52621459 | 0.000157864 | 0.00016 | 69000 | 1 | 69000 | 0.00003 | 0.541795666 | 37383.90093 | 1.121517028 | 1.1 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.015614676 | 1.177346589 | 0.000353204 | 0.00035 | 120000 | 1 | 120000 | 0.00003 | 0.541795666 | 65015.47988 | 1.950464396 | 2 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.015614676 | 1.09771174 | 0.000329314 | 0.00033 | 22000 | 1 | 22000 | 0.00003 | 0.541795666 | 11919.50464 | 0.357585139 | 0.36 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.015614676 | 1.44591902 | 0.000433776 | 0.00043 | 67000 | 1 | 67000 | 0.00003 | 0.541795666 | 36300.3096 | 1.089009288 | 1.1 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.015614676 | 1.904990502 | 0.000571497 | 0.00057 | 88000 | 1 | 88000 | 0.00003 | 0.541795666 | 47678.01858 | 1.430340557 | 1.4 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.015614676 | 0.385682503 | 0.000115705 | 0.00012 | 13000 | 1 | 13000 | 0.00003 | 0.541795666 | 7043.343653 | 0.21130031 | 0.21 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.015614676 | 0.910335625 | 0.000273101 | 0.00027 | 22000 | 1 | 22000 | 0.00003 | 0.541795666 | 11919.50464 | 0.357585139 | 0.36 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.015614676 | 1.299141064 | 0.000389742 | 0.00039 | 89000 | 1 | 89000 | 0.00003 | 0.541795666 | 48219.81424 | 1.446594427 | 1.4 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.015614676 | 3.934898414 | 0.00118047 | 0.0012 | 13000 | 1 | 13000 | 0.00003 | 0.541795666 | 7043.343653 | 0.21130031 | 0.21 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.015614676 | 1.205453006 | 0.000361636 | 0.00036 | 86000 | 1 | 86000 | 0.00003 | 0.541795666 | 46594.42724 | 1.397832817 | 1.4 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.015614676 | 0.580865956 | 0.00017426 | 0.00017 | 39000 | 1 | 39000 | 0.00003 | 0.541795666 | 21130.03096 | 0.633900929 | 0.63 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.015614676 | 1.335054819 | 0.000400516 | 0.0004 | 100000 | 1 | 100000 | 0.00003 | 0.541795666 | 54179.56656 | 1.625386997 | 1.6 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.015614676 | 1.035253035 | 0.000310576 | 0.00031 | 94500 | 1 | 94500 | 0.00003 | 0.541795666 | 51199.6904 | 1.535990712 | 1.5 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.015614676 | | | | | | | 0.00003 | 0.541795666 | | | |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.015614676 | 1.556783222 | 0.000467035 | 0.00047 | 95000 | 1 | 95000 | 0.00003 | 0.541795666 | 51470.58824 | 1.544117647 | 1.5 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.015614676 | 1.592696977 | 0.000477809 | 0.00048 | 120000 | 1 | 120000 | 0.00003 | 0.541795666 | 65015.47988 | 1.950464396 | 2 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.015614676 | 2.107981293 | 0.000632394 | 0.00063 | 73000 | 1 | 73000 | 0.00003 | 0.541795666 | 39551.08359 | 1.186532508 | 1.2 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.015614676 | 1.483394243 | 0.000445018 | 0.00045 | 52000 | 1 | 52000 | 0.00003 | 0.541795666 | 28173.37461 | 0.845201238 | 0.85 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.015614676 | 2.170439998 | 0.000651132 | 0.00065 | 95000 | 1 | 95000 | 0.00003 | 0.541795666 | 51470.58824 | 1.544117647 | 1.5 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.015614676 | 0.541829266 | 0.000162549 | 0.00016 | 13000 | 1 | 13000 | 0.00003 | 0.541795666 | 7043.343653 | 0.21130031 | 0.21 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.015614676 | 1.889375826 | 0.000566813 | 0.00057 | 56000 | 1 | 56000 | 0.00003 | 0.541795666 | 30340.55728 | 0.910216718 | 0.91 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.015614676 | 1.889375826 | 0.000566813 | 0.00057 | 40000 | 1 | 40000 | 0.00003 | 0.541795666 | 21671.82663 | 0.650154799 | 0.65 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.015614676 | 1.018076891 | 0.000305423 | 0.00031 | 20000 | 1 | 20000 | 0.00003 | 0.541795666 | 10835.91331 | 0.325077399 | 0.33 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.015614676 | 0.738574186 | 0.000221572 | 0.00022 | 25000 | 1 | 25000 | 0.00003 | 0.541795666 | 13544.89164 | 0.406346749 | 0.41 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.015614676 | 1.253858503 | 0.000376158 | 0.00038 | 45000 | 1 | 45000 | 0.00003 | 0.541795666 | 24380.80495 | 0.731424149 | 0.73 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.015614676 | 1.655155682 | 0.000496547 | 0.0005 | 48000 | 1 | 48000 | 0.00003 | 0.541795666 | 26006.19195 | 0.780185759 | 0.78 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.015614676 | 1.004023683 | 0.000301207 | 0.0003 | 39000 | 1 | 39000 | 0.00003 | 0.541795666 | 21130.03096 | 0.633900929 | 0.63 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.015614676 | 0.869737467 | 0.000260921 | 0.00026 | 12000 | 1 | 12000 | 0.00003 | 0.541795666 | 6501.547988 | 0.19504644 | 0.2 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.015614676 | 0.971232863 | 0.00029137 | 0.00029 | 55000 | 1 | 55000 | 0.00003 | 0.541795666 | 29798.76161 | 0.893962848 | 0.89 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.015614676 | 2.467118847 | 0.000740136 | 0.00074 | 32000 | 1 | 32000 | 0.00003 | 0.541795666 | 17337.4613 | 0.520123839 | 0.52 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.015614676 | | | | 31000 | 1 | 31000 | 0.00003 | 0.541795666 | 16795.66563 | 0.503869969 | 0.5 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.015614676 | 1.452164891 | 0.000435649 | 0.00044 | 67000 | 1 | 67000 | 0.00003 | 0.541795666 | 36300.3096 | 1.089009288 | 1.1 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.015614676 | 1.967449207 | 0.000590235 | 0.00059 | 64000 | 1 | 64000 | 0.00003 | 0.541795666 | 34674.9226 | 1.040247678 | 1 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.015614676 | 0.982163136 | 0.000294649 | 0.00029 | 44000 | 1 | 44000 | 0.00003 | 0.541795666 | 23839.00929 | 0.715170279 | 0.72 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.015614676 | 1.280403452 | 0.000384121 | 0.00038 | 40000 | 1 | 40000 | 0.00003 | 0.541795666 | 21671.82663 | 0.650154799 | 0.65 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.015614676 | 1.733229063 | 0.000519969 | 0.00052 | 38000 | 1 | 38000 | 0.00003 | 0.541795666 | 20588.23529 | 0.617647059 | 0.62 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.015614676 | 0.63083292 | 0.00018925 | 0.00019 | 20000 | 1 | 20000 | 0.00003 | 0.541795666 | 10835.91331 | 0.325077399 | 0.33 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.015614676 | 1.057113582 | 0.000317134 | 0.00032 | 25000 | 1 | 25000 | 0.00003 | 0.541795666 | 13544.89164 | 0.406346749 | 0.41 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.015614676 | 2.592036257 | 0.000777611 | 0.00078 | 130000 | 1 | 130000 | 0.00003 | 0.541795666 | 70433.43653 | 2.113003096 | 2.1 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.015614676 | 1.655155682 | 0.000496547 | 0.0005 | 92000 | 1 | 92000 | 0.00003 | 0.541795666 | 49845.20124 | 1.495356037 | 1.5 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.015614676 | 1.146117237 | 0.000343835 | 0.00034 | 28000 | 1 | 28000 | 0.00003 | 0.541795666 | 15170.27864 | 0.455108359 | 0.46 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.015614676 | 3.700678271 | 0.001110203 | 0.0011 | 95000 | 1 | 95000 | 0.00003 | 0.541795666 | 51470.58824 | 1.544117647 | 1.5 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.015614676 | 0.448141208 | 0.000134442 | 0.00013 | 22000 | 1 | 22000 | 0.00003 | 0.541795666 | 11919.50464 | 0.357585139 | 0.36 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.015614676 | 0.765119136 | 0.000229536 | 0.00023 | 41000 | 1 | 41000 | 0.00003 | 0.541795666 | 22213.62229 | 0.666408669 | 0.67 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.015614676 | 1.077412661 | 0.000323224 | 0.00032 | 45000 | 1 | 45000 | 0.00003 | 0.541795666 | 24380.80495 | 0.731424149 | 0.73 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.015614676 | 0.312293525 | 9.36881E-05 | 0.000094 | 3100 | 1 | 3100 | 0.00003 | 0.541795666 | 1679.566563 | 0.050386997 | 0.05 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.015614676 | 0.069641456 | 2.08924E-05 | 0.000021 | 1400 | 0 | 0 | 0.00003 | 0.541795666 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.015614676 | 0.152086947 | 4.56261E-05 | 0.000046 | 2900 | 1 | 2900 | 0.00003 | 0.541795666 | 1571.20743 | 0.047136223 | 0.047 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.015614676 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 | 0.541795666 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.015614676 | 0.465317352 | 0.000139595 | 0.00014 | 6800 | 1 | 6800 | 0.00003 | 0.541795666 | 3684.210526 | 0.110526316 | 0.11 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.015614676 | 0.171761439 | 5.15284E-05 | 0.000052 | 1700 | 0 | 0 | 0.00003 | 0.541795666 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.015614676 | 0.49966964 | 0.000149901 | 0.00015 | 18000 | 1 | 18000 | 0.00003 | 0.541795666 | 9752.321981 | 0.292569659 | 0.29 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.015614676 | 0.780733812 | 0.00023422 | 0.00023 | 22000 | 1 | 22000 | 0.00003 | 0.541795666 | 11919.50464 | 0.357585139 | 0.36 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.015614676 | 0.132724748 | 3.98174E-05 | 0.00004 | 1700 | 0 | 0 | 0.00003 | 0.541795666 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.015614676 | | | | | | | 0.00003 | 0.541795666 | | | |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.015614676 | 0.245150417 | 7.35451E-05 | 0.000074 | 4700 | 1 | 4700 | 0.00003 | 0.541795666 | 2546.439628 | 0.076393189 | 0.076 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.015614676 | 0.179568777 | 5.38706E-05 | 0.000054 | 4700 | 1 | 4700 | 0.00003 | 0.541795666 | 2546.439628 | 0.076393189 | 0.076 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.015614676 | 0.034976875 | 1.04931E-05 | 0.00001 | 2300 | 1 | 2300 | 0.00003 | 0.541795666 | 1246.130031 | 0.037383901 | 0.037 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.015614676 | 1.983063883 | 0.000594919 | 0.00059 | 120000 | 1 | 120000 | 0.00003 | 0.541795666 | 65015.47988 | 1.950464396 | 2 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.015614676 | 0.034352288 | 1.03057E-05 | 0.00001 | 1400 | 0 | 0 | 0.00003 | 0.541795666 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.015614676 | 0.036382196 | 1.09147E-05 | 0.000011 | 1500 | 0 | 0 | 0.00003 | 0.541795666 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.015614676 | 0.109302734 | 3.27908E-05 | 0.000033 | 3100 | 1 | 3100 | 0.00003 | 0.541795666 | 1679.566563 | 0.050386997 | 0.05 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.015614676 | 0.078073381 | 2.3422E-05 | 0.000023 | 1600 | 0 | 0 | 0.00003 | 0.541795666 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.015614676 | 1.772265754 | 0.00053168 | 0.00053 | 79000 | 1 | 79000 | 0.00003 | 0.541795666 | 42801.85759 | 1.284055728 | 1.3 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.015614676 | | | | | | | 0.00003 | 0.541795666 | | | |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.015614676 | 0.790102618 | 0.000237031 | 0.00024 | 25000 | 1 | 25000 | 0.00003 | 0.541795666 | 13544.89164 | 0.406346749 | 0.41 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.015614676 | 0.15286768 | 4.58603E-05 | 0.000046 | 3700 | 1 | 3700 | 0.00003 | 0.541795666 | 2004.643963 | 0.060139319 | 0.06 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.015614676 | 0.306047654 | 9.18143E-05 | 0.000092 | 6800 | 1 | 6800 | 0.00003 | 0.541795666 | 3684.210526 | 0.110526316 | 0.11 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.015614676 | | | | | | | 0.00003 | 0.541795666 | | | |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.015614676 | 0.640201726 | 0.000192061 | 0.00019 | 22000 | 1 | 22000 | 0.00003 | 0.541795666 | 11919.50464 | 0.357585139 | 0.36 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.015614676 | 1.217944747 | 0.000365383 | 0.00037 | 77000 | 1 | 77000 | 0.00003 | 0.541795666 | 41718.26625 | 1.251547988 | 1.3 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.015614676 | 0.74950446 | 0.000224851 | 0.00022 | 29000 | 1 | 29000 | 0.00003 | 0.541795666 | 15712.0743 | 0.471362229 | 0.47 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.015614676 | 0.405981582 | 0.000121794 | 0.00012 | 15000 | 1 | 15000 | 0.00003 | 0.541795666 | 8126.934985 | 0.24380805 | 0.24 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.015614676 | 0.405981582 | 0.000121794 | 0.00012 | 12000 | 1 | 12000 | 0.00003 | 0.541795666 | 6501.547988 | 0.19504644 | 0.2 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.015614676 | 0.359137554 | 0.000107741 | 0.00011 | 7400 | 1 | 7400 | 0.00003 | 0.541795666 | 4009.287926 | 0.120278638 | 0.12 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.015614676 | 3.372770069 | 0.001011831 | 0.001 | 100000 | 1 | 100000 | 0.00003 | 0.541795666 | 54179.56656 | 1.625386997 | 1.6 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.015614676 | 0.254519223 | 7.63558E-05 | 0.000076 | 4700 | 1 | 4700 | 0.00003 | 0.541795666 | 2546.439628 | 0.076393189 | 0.076 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.015614676 | 0.490300834 | 0.00014709 | 0.00015 | 24000 | 1 | 24000 | 0.00003 | 0.541795666 | 13003.09598 | 0.390092879 | 0.39 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.015614676 | 0.663623741 | 0.000199087 | 0.0002 | 29000 | 1 | 29000 | 0.00003 | 0.541795666 | 15712.0743 | 0.471362229 | 0.47 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.015614676 | 1.391267654 | 0.00041738 | 0.00042 | 50000 | 1 | 50000 | 0.00003 | 0.541795666 | 27089.78328 | 0.812693498 | 0.81 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.015614676 | 0.805717294 | 0.000241715 | 0.00024 | 100000 | 1 | 100000 | 0.00003 | 0.541795666 | 54179.56656 | 1.625386997 | 1.6 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.015614676 | 1.408443797 | 0.000422533 | 0.00042 | 37000 | 1 | 37000 | 0.00003 | 0.541795666 | 20046.43963 | 0.601393189 | 0.6 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 100000 | 1 | 100000 | 0.00003 | 0.148014752 | 14801.47521 | 0.444044256 | 0.44 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 33000 | 1 | 33000 | 0.00003 | 0.148014752 | 4884.486821 | 0.146534605 | 0.15 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00003 | 0.148014752 | 7252.722855 | 0.217581686 | 0.22 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 93000 | 1 | 93000 | 0.00003 | 0.148014752 | 13765.37195 | 0.412961158 | 0.41 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 83000 | 1 | 83000 | 0.00003 | 0.148014752 | 12285.22443 | 0.368556733 | 0.37 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 53000 | 1 | 53000 | 0.00003 | 0.148014752 | 7844.781863 | 0.235343456 | 0.24 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00003 | 0.148014752 | 10657.06215 | 0.319711865 | 0.32 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 | 0.148014752 | 1924.191778 | 0.057725753 | 0.058 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | 0.00003 | 0.148014752 | 20722.0653 | 0.621661959 | 0.62 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00003 | 0.148014752 | 6956.69335 | 0.208700801 | 0.21 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00003 | 0.148014752 | 6808.678598 | 0.204260358 | 0.2 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 51000 | 1 | 51000 | 0.00003 | 0.148014752 | 7548.752359 | 0.226462571 | 0.23 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | 0.00003 | 0.148014752 | 13025.29819 | 0.390758946 | 0.39 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 67000 | 1 | 67000 | 0.00003 | 0.148014752 | 9916.988393 | 0.297509652 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | 15000 | 1 | 15000 | 0.00003 | 0.148014752 | 2220.221282 | 0.066606638 | 0.067 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 55000 | 1 | 55000 | 0.00003 | 0.148014752 | 8140.811368 | 0.244224341 | 0.24 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.00003 | 0.148014752 | 4144.41306 | 0.124332392 | 0.12 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 15000 | 1 | 15000 | 0.00003 | 0.148014752 | 2220.221282 | 0.066606638 | 0.067 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.00003 | 0.148014752 | 1776.177026 | 0.053285311 | 0.053 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 | 0.148014752 | 19241.91778 | 0.577257533 | 0.58 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 19000 | 1 | 19000 | 0.00003 | 0.148014752 | 2812.280291 | 0.084368409 | 0.084 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 | 0.148014752 | 1924.191778 | 0.057725753 | 0.058 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 60000 | 1 | 60000 | 0.00003 | 0.148014752 | 8880.885128 | 0.266426554 | 0.27 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 38000 | 1 | 38000 | 0.00003 | 0.148014752 | 5624.560581 | 0.168736817 | 0.17 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 69000 | 1 | 69000 | 0.00003 | 0.148014752 | 10213.0179 | 0.306390537 | 0.31 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 120000 | 1 | 120000 | 0.00003 | 0.148014752 | 17761.77026 | 0.532853108 | 0.53 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.00003 | 0.148014752 | 3256.324547 | 0.097689736 | 0.098 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 67000 | 1 | 67000 | 0.00003 | 0.148014752 | 9916.988393 | 0.297509652 | 0.3 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | 0.00003 | 0.148014752 | 13025.29819 | 0.390758946 | 0.39 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 | 0.148014752 | 1924.191778 | 0.057725753 | 0.058 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.00003 | 0.148014752 | 3256.324547 | 0.097689736 | 0.098 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 89000 | 1 | 89000 | 0.00003 | 0.148014752 | 13173.31294 | 0.395199388 | 0.4 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 | 0.148014752 | 1924.191778 | 0.057725753 | 0.058 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 86000 | 1 | 86000 | 0.00003 | 0.148014752 | 12729.26868 | 0.381878061 | 0.38 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 39000 | 1 | 39000 | 0.00003 | 0.148014752 | 5772.575333 | 0.17317726 | 0.17 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 100000 | 1 | 100000 | 0.00003 | 0.148014752 | 14801.47521 | 0.444044256 | 0.44 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 94500 | 1 | 94500 | 0.00003 | 0.148014752 | 13987.39408 | 0.419621822 | 0.42 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 0.00003 | 0.148014752 | | | |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 95000 | 1 | 95000 | 0.00003 | 0.148014752 | 14061.40145 | 0.421842044 | 0.42 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 120000 | 1 | 120000 | 0.00003 | 0.148014752 | 17761.77026 | 0.532853108 | 0.53 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 73000 | 1 | 73000 | 0.00003 | 0.148014752 | 10805.07691 | 0.324152307 | 0.32 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 52000 | 1 | 52000 | 0.00003 | 0.148014752 | 7696.767111 | 0.230903013 | 0.23 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 95000 | 1 | 95000 | 0.00003 | 0.148014752 | 14061.40145 | 0.421842044 | 0.42 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 | 0.148014752 | 1924.191778 | 0.057725753 | 0.058 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 56000 | 1 | 56000 | 0.00003 | 0.148014752 | 8288.82612 | 0.248664784 | 0.25 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 40000 | 1 | 40000 | 0.00003 | 0.148014752 | 5920.590085 | 0.177617703 | 0.18 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 20000 | 1 | 20000 | 0.00003 | 0.148014752 | 2960.295043 | 0.088808851 | 0.089 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 | 0.148014752 | 3700.368803 | 0.111011064 | 0.11 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 45000 | 1 | 45000 | 0.00003 | 0.148014752 | 6660.663846 | 0.199819915 | 0.2 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 48000 | 1 | 48000 | 0.00003 | 0.148014752 | 7104.708103 | 0.213141243 | 0.21 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 39000 | 1 | 39000 | 0.00003 | 0.148014752 | 5772.575333 | 0.17317726 | 0.17 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.00003 | 0.148014752 | 1776.177026 | 0.053285311 | 0.053 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 55000 | 1 | 55000 | 0.00003 | 0.148014752 | 8140.811368 | 0.244224341 | 0.24 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 32000 | 1 | 32000 | 0.00003 | 0.148014752 | 4736.472068 | 0.142094162 | 0.14 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | 31000 | 1 | 31000 | 0.00003 | 0.148014752 | 4588.457316 | 0.137653719 | 0.14 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 67000 | 1 | 67000 | 0.00003 | 0.148014752 | 9916.988393 | 0.297509652 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 64000 | 1 | 64000 | 0.00003 | 0.148014752 | 9472.944137 | 0.284188324 | 0.28 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00003 | 0.148014752 | 6512.649094 | 0.195379473 | 0.2 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 40000 | 1 | 40000 | 0.00003 | 0.148014752 | 5920.590085 | 0.177617703 | 0.18 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 38000 | 1 | 38000 | 0.00003 | 0.148014752 | 5624.560581 | 0.168736817 | 0.17 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 20000 | 1 | 20000 | 0.00003 | 0.148014752 | 2960.295043 | 0.088808851 | 0.089 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 | 0.148014752 | 3700.368803 | 0.111011064 | 0.11 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 | 0.148014752 | 19241.91778 | 0.577257533 | 0.58 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 92000 | 1 | 92000 | 0.00003 | 0.148014752 | 13617.3572 | 0.408520716 | 0.41 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.00003 | 0.148014752 | 4144.41306 | 0.124332392 | 0.12 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 95000 | 1 | 95000 | 0.00003 | 0.148014752 | 14061.40145 | 0.421842044 | 0.42 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical Unit | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.00003 | 0.148014752 | 3256.324547 | 0.097689736 | 0.098 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 41000 | 1 | 41000 | 0.00003 | 0.148014752 | 6068.604838 | 0.182058145 | 0.18 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 45000 | 1 | 45000 | 0.00003 | 0.148014752 | 6660.663846 | 0.199819915 | 0.2 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.00003 | 0.148014752 | 458.8457316 | 0.013765372 | 0.014 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00003 | 0.148014752 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 2900 | 1 | 2900 | 0.00003 | 0.148014752 | 429.2427812 | 0.012877283 | 0.013 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 | 0.148014752 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 6800 | 1 | 6800 | 0.00003 | 0.148014752 | 1006.500315 | 0.030195009 | 0.03 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.00003 | 0.148014752 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 18000 | 1 | 18000 | 0.00003 | 0.148014752 | 2664.265538 | 0.079927966 | 0.08 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.00003 | 0.148014752 | 3256.324547 | 0.097689736 | 0.098 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.00003 | 0.148014752 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 0.00003 | 0.148014752 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 4700 | 1 | 4700 | 0.00003 | 0.148014752 | 695.669335 | 0.02087008 | 0.021 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 4700 | 1 | 4700 | 0.00003 | 0.148014752 | 695.669335 | 0.02087008 | 0.021 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 2300 | 1 | 2300 | 0.00003 | 0.148014752 | 340.4339299 | 0.010213018 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 120000 | 1 | 120000 | 0.00003 | 0.148014752 | 17761.77026 | 0.532853108 | 0.53 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00003 | 0.148014752 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 | 0.148014752 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.00003 | 0.148014752 | 458.8457316 | 0.013765372 | 0.014 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | 0.148014752 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 79000 | 1 | 79000 | 0.00003 | 0.148014752 | 11693.16542 | 0.350794963 | 0.35 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 0.00003 | 0.148014752 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 | 0.148014752 | 3700.368803 | 0.111011064 | 0.11 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 3700 | 1 | 3700 | 0.00003 | 0.148014752 | 547.6545829 | 0.016429637 | 0.016 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 6800 | 1 | 6800 | 0.00003 | 0.148014752 | 1006.500315 | 0.030195009 | 0.03 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 0.00003 | 0.148014752 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.00003 | 0.148014752 | 3256.324547 | 0.097689736 | 0.098 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 77000 | 1 | 77000 | 0.00003 | 0.148014752 | 11397.13591 | 0.341914077 | 0.34 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 29000 | 1 | 29000 | 0.00003 | 0.148014752 | 4292.427812 | 0.128772834 | 0.13 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 15000 | 1 | 15000 | 0.00003 | 0.148014752 | 2220.221282 | 0.066606638 | 0.067 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.00003 | 0.148014752 | 1776.177026 | 0.053285311 | 0.053 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 7400 | 1 | 7400 | 0.00003 | 0.148014752 | 1095.309166 | 0.032859275 | 0.033 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 100000 | 1 | 100000 | 0.00003 | 0.148014752 | 14801.47521 | 0.444044256 | 0.44 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 4700 | 1 | 4700 | 0.00003 | 0.148014752 | 695.669335 | 0.02087008 | 0.021 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 24000 | 1 | 24000 | 0.00003 | 0.148014752 | 3552.354051 | 0.106570622 | 0.11 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 29000 | 1 | 29000 | 0.00003 | 0.148014752 | 4292.427812 | 0.128772834 | 0.13 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 50000 | 1 | 50000 | 0.00003 | 0.148014752 | 7400.737607 | 0.222022128 | 0.22 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 100000 | 1 | 100000 | 0.00003 | 0.148014752 | 14801.47521 | 0.444044256 | 0.44 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 37000 | 1 | 37000 | 0.00003 | 0.148014752 | 5476.545829 | 0.164296375 | 0.16 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.025524812 | 1.837786466 | 0.000551336 | 0.00055 | 100000 | 1 | 100000 | 0.00003 | 0.03102406 | 3102.406015 | 0.09307218 | 0.093 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.025524812 | 1.557013534 | 0.000467104 | 0.00047 | 33000 | 1 | 33000 | 0.00003 | 0.03102406 | 1023.793985 | 0.03071382 | 0.031 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.025524812 | 3.216126316 | 0.000964838 | 0.00096 | 49000 | 1 | 49000 | 0.00003 | 0.03102406 | 1520.178947 | 0.045605368 | 0.046 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.025524812 | 2.241078496 | 0.000672324 | 0.00067 | 93000 | 1 | 93000 | 0.00003 | 0.03102406 | 2885.237594 | 0.086557128 | 0.087 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.025524812 | 2.264050827 | 0.000679215 | 0.00068 | 83000 | 1 | 83000 | 0.00003 | 0.03102406 | 2574.996992 | 0.07724991 | 0.077 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.025524812 | 1.590195789 | 0.000477059 | 0.00048 | 53000 | 1 | 53000 | 0.00003 | 0.03102406 | 1644.275188 | 0.049328256 | 0.049 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.025524812 | 1.743344662 | 0.000523003 | 0.00052 | 72000 | 1 | 72000 | 0.00003 | 0.03102406 | 2233.732331 | 0.06701197 | 0.067 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.025524812 | 0.197306797 | 5.9192E-05 | 0.000059 | 13000 | 1 | 13000 | 0.00003 | 0.03102406 | 403.312782 | 0.012099383 | 0.012 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.025524812 | 1.850548872 | 0.000555165 | 0.00056 | 140000 | 1 | 140000 | 0.00003 | 0.03102406 | 4343.368421 | 0.130301053 | 0.13 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.025524812 | 1.625930526 | 0.000487779 | 0.00049 | 47000 | 1 | 47000 | 0.00003 | 0.03102406 | 1458.130827 | 0.043743925 | 0.044 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.025524812 | 1.411522105 | 0.000423457 | 0.00042 | 46000 | 1 | 46000 | 0.00003 | 0.03102406 | 1427.106767 | 0.042813203 | 0.043 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.025524812 | 1.01844 | 0.000305532 | 0.00031 | 51000 | 1 | 51000 | 0.00003 | 0.03102406 | 1582.227068 | 0.047466812 | 0.047 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.025524812 | 1.340052632 | 0.000402016 | 0.0004 | 88000 | 1 | 88000 | 0.00003 | 0.03102406 | 2730.117293 | 0.081903519 | 0.082 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.025524812 | 1.518726316 | 0.000455618 | 0.00046 | 67000 | 1 | 67000 | 0.00003 | 0.03102406 | 2078.61203 | 0.062358361 | 0.062 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.025524812 | | | | 15000 | 1 | 15000 | 0.00003 | 0.03102406 | 465.3609023 | 0.013960827 | 0.014 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.025524812 | 0 | 0 | 0 | 55000 | 1 | 55000 | 0.00003 | 0.03102406 | 1706.323308 | 0.051189699 | 0.051 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.025524812 | 1.54935609 | 0.000464807 | 0.00046 | 28000 | 1 | 28000 | 0.00003 | 0.03102406 | 868.6736842 | 0.026060211 | 0.026 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.025524812 | 0.587070677 | 0.000176121 | 0.00018 | 15000 | 1 | 15000 | 0.00003 | 0.03102406 | 465.3609023 | 0.013960827 | 0.014 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.025524812 | 0.484971429 | 0.000145491 | 0.00015 | 12000 | 1 | 12000 | 0.00003 | 0.03102406 | 372.2887218 | 0.011168662 | 0.011 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.025524812 | 3.598998496 | 0.0010797 | 0.0011 | 130000 | 1 | 130000 | 0.00003 | 0.03102406 | 4033.12782 | 0.120993835 | 0.12 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.025524812 | 0 | 0 | 0 | 19000 | 1 | 19000 | 0.00003 | 0.03102406 | 589.4571429 | 0.017683714 | 0.018 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.025524812 | 0.842318797 | 0.000252696 | 0.00025 | 13000 | 1 | 13000 | 0.00003 | 0.03102406 | 403.312782 | 0.012099383 | 0.012 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.025524812 | 1.411522105 | 0.000423457 | 0.00042 | 60000 | 1 | 60000 | 0.00003 | 0.03102406 | 1861.443609 | 0.055843308 | 0.056 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.025524812 | 0.640672782 | 0.000192202 | 0.00019 | 38000 | 1 | 38000 | 0.00003 | 0.03102406 | 1178.914286 | 0.035367429 | 0.035 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.025524812 | 0.860186165 | 0.000258056 | 0.00026 | 69000 | 1 | 69000 | 0.00003 | 0.03102406 | 2140.66015 | 0.064219805 | 0.064 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.025524812 | 1.924570827 | 0.000577371 | 0.00058 | 120000 | 1 | 120000 | 0.00003 | 0.03102406 | 3722.887218 | 0.111686617 | 0.11 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.025524812 | 1.794394286 | 0.000538318 | 0.00054 | 22000 | 1 | 22000 | 0.00003 | 0.03102406 | 682.5293233 | 0.02047588 | 0.02 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.025524812 | 2.363597594 | 0.000709079 | 0.00071 | 67000 | 1 | 67000 | 0.00003 | 0.03102406 | 2078.61203 | 0.062358361 | 0.062 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.025524812 | 3.114027068 | 0.000934208 | 0.00093 | 88000 | 1 | 88000 | 0.00003 | 0.03102406 | 2730.117293 | 0.081903519 | 0.082 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.025524812 | 0.630462857 | 0.000189139 | 0.00019 | 13000 | 1 | 13000 | 0.00003 | 0.03102406 | 403.312782 | 0.012099383 | 0.012 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.025524812 | 1.488096541 | 0.000446429 | 0.00045 | 22000 | 1 | 22000 | 0.00003 | 0.03102406 | 682.5293233 | 0.02047588 | 0.02 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.025524812 | 2.123664361 | 0.000637099 | 0.00064 | 89000 | 1 | 89000 | 0.00003 | 0.03102406 | 2761.141353 | 0.082834241 | 0.083 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.025524812 | 6.432252632 | 0.001929676 | 0.0019 | 13000 | 1 | 13000 | 0.00003 | 0.03102406 | 403.312782 | 0.012099383 | 0.012 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.025524812 | 1.970515489 | 0.000591155 | 0.00059 | 86000 | 1 | 86000 | 0.00003 | 0.03102406 | 2668.069173 | 0.080042075 | 0.08 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.025524812 | 0.949523008 | 0.000284857 | 0.00028 | 39000 | 1 | 39000 | 0.00003 | 0.03102406 | 1209.938346 | 0.03629815 | 0.036 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.025524812 | 2.182371429 | 0.000654711 | 0.00065 | 100000 | 1 | 100000 | 0.00003 | 0.03102406 | 3102.406015 | 0.09307218 | 0.093 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.025524812 | 1.692295038 | 0.000507689 | 0.00051 | 94500 | 1 | 94500 | 0.00003 | 0.03102406 | 2931.773684 | 0.087953211 | 0.088 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.025524812 | | | | | | | 0.00003 | 0.03102406 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.025524812 | 2.544823759 | 0.000763447 | 0.00076 | 95000 | 1 | 95000 | 0.00003 | 0.03102406 | 2947.285714 | 0.088418571 | 0.088 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.025524812 | 2.603530827 | 0.000781059 | 0.00078 | 120000 | 1 | 120000 | 0.00003 | 0.03102406 | 3722.887218 | 0.111686617 | 0.11 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.025524812 | 3.445849624 | 0.001033755 | 0.001 | 73000 | 1 | 73000 | 0.00003 | 0.03102406 | 2264.756391 | 0.067942692 | 0.068 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.025524812 | 2.424857143 | 0.000727457 | 0.00073 | 52000 | 1 | 52000 | 0.00003 | 0.03102406 | 1613.251128 | 0.048397534 | 0.048 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.025524812 | 3.547948872 | 0.001064385 | 0.0011 | 95000 | 1 | 95000 | 0.00003 | 0.03102406 | 2947.285714 | 0.088418571 | 0.088 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.025524812 | 0.885710977 | 0.000265713 | 0.00027 | 13000 | 1 | 13000 | 0.00003 | 0.03102406 | 403.312782 | 0.012099383 | 0.012 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.025524812 | 3.088502256 | 0.000926551 | 0.00093 | 56000 | 1 | 56000 | 0.00003 | 0.03102406 | 1737.347368 | 0.052120421 | 0.052 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.025524812 | 3.088502256 | 0.000926551 | 0.00093 | 40000 | 1 | 40000 | 0.00003 | 0.03102406 | 1240.962406 | 0.037228872 | 0.037 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.025524812 | 1.664217744 | 0.000499265 | 0.0005 | 20000 | 1 | 20000 | 0.00003 | 0.03102406 | 620.481203 | 0.018614436 | 0.019 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.025524812 | 1.207323609 | 0.000362197 | 0.00036 | 25000 | 1 | 25000 | 0.00003 | 0.03102406 | 775.6015038 | 0.023268045 | 0.023 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.025524812 | 2.049642406 | 0.000614893 | 0.00061 | 45000 | 1 | 45000 | 0.00003 | 0.03102406 | 1396.082707 | 0.041882481 | 0.042 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.025524812 | 2.705630075 | 0.000811689 | 0.00081 | 48000 | 1 | 48000 | 0.00003 | 0.03102406 | 1489.154887 | 0.044674647 | 0.045 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.025524812 | 1.641245414 | 0.000492374 | 0.00049 | 39000 | 1 | 39000 | 0.00003 | 0.03102406 | 1209.938346 | 0.03629815 | 0.036 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.025524812 | 1.42173203 | 0.00042652 | 0.00043 | 12000 | 1 | 12000 | 0.00003 | 0.03102406 | 372.2887218 | 0.011168662 | 0.011 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.025524812 | 1.587643308 | 0.000476293 | 0.00048 | 55000 | 1 | 55000 | 0.00003 | 0.03102406 | 1706.323308 | 0.051189699 | 0.051 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.025524812 | 4.032920301 | 0.001209876 | 0.0012 | 32000 | 1 | 32000 | 0.00003 | 0.03102406 | 992.7699248 | 0.029783098 | 0.03 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.025524812 | | | | 31000 | 1 | 31000 | 0.00003 | 0.03102406 | 961.7458647 | 0.028852376 | 0.029 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.025524812 | 2.373807519 | 0.000712142 | 0.00071 | 67000 | 1 | 67000 | 0.00003 | 0.03102406 | 2078.61203 | 0.062358361 | 0.062 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.025524812 | 3.216126316 | 0.000964838 | 0.00096 | 64000 | 1 | 64000 | 0.00003 | 0.03102406 | 1985.53985 | 0.059566195 | 0.06 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.025524812 | 1.605510677 | 0.000481653 | 0.00048 | 44000 | 1 | 44000 | 0.00003 | 0.03102406 | 1365.058647 | 0.040951759 | 0.041 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.025524812 | 2.093034586 | 0.00062791 | 0.00063 | 40000 | 1 | 40000 | 0.00003 | 0.03102406 | 1240.962406 | 0.037228872 | 0.037 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.025524812 | 2.833254135 | 0.000849976 | 0.00085 | 38000 | 1 | 38000 | 0.00003 | 0.03102406 | 1178.914286 | 0.035367429 | 0.035 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.025524812 | 1.031202406 | 0.000309361 | 0.00031 | 20000 | 1 | 20000 | 0.00003 | 0.03102406 | 620.481203 | 0.018614436 | 0.019 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.025524812 | 1.728029774 | 0.000518409 | 0.00052 | 25000 | 1 | 25000 | 0.00003 | 0.03102406 | 775.6015038 | 0.023268045 | 0.023 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.025524812 | 4.237118797 | 0.001271136 | 0.0013 | 130000 | 1 | 130000 | 0.00003 | 0.03102406 | 4033.12782 | 0.120993835 | 0.12 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.025524812 | 2.705630075 | 0.000811689 | 0.00081 | 92000 | 1 | 92000 | 0.00003 | 0.03102406 | 2854.213534 | 0.085626406 | 0.086 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.025524812 | 1.873521203 | 0.000562056 | 0.00056 | 28000 | 1 | 28000 | 0.00003 | 0.03102406 | 868.6736842 | 0.026060211 | 0.026 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.025524812 | 6.049380451 | 0.001814814 | 0.0018 | 95000 | 1 | 95000 | 0.00003 | 0.03102406 | 2947.285714 | 0.088418571 | 0.088 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.025524812 | 0.732562105 | 0.000219769 | 0.00022 | 22000 | 1 | 22000 | 0.00003 | 0.03102406 | 682.5293233 | 0.02047588 | 0.02 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.025524812 | 1.250715789 | 0.000375215 | 0.00038 | 41000 | 1 | 41000 | 0.00003 | 0.03102406 | 1271.986466 | 0.038159594 | 0.038 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.025524812 | 1.76121203 | 0.000528364 | 0.00053 | 45000 | 1 | 45000 | 0.00003 | 0.03102406 | 1396.082707 | 0.041882481 | 0.042 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.025524812 | 0.510496241 | 0.000153149 | 0.00015 | 3100 | 1 | 3100 | 0.00003 | 0.03102406 | 96.17458647 | 0.002885238 | 0.0029 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.025524812 | 0.113840662 | 3.41522E-05 | 0.000034 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.025524812 | 0.248611669 | 7.45835E-05 | 0.000075 | 2900 | 1 | 2900 | 0.00003 | 0.03102406 | 89.96977444 | 0.002699093 | 0.0027 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.025524812 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.025524812 | 0.760639398 | 0.000228192 | 0.00023 | 6800 | 1 | 6800 | 0.00003 | 0.03102406 | 210.963609 | 0.006328908 | 0.0063 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.025524812 | 0.280772932 | 8.42319E-05 | 0.000084 | 1700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.025524812 | 0.816793985 | 0.000245038 | 0.00025 | 18000 | 1 | 18000 | 0.00003 | 0.03102406 | 558.4330827 | 0.016752992 | 0.017 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.025524812 | 1.276240602 | 0.000382872 | 0.00038 | 22000 | 1 | 22000 | 0.00003 | 0.03102406 | 682.5293233 | 0.02047588 | 0.02 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.025524812 | 0.216960902 | 6.50883E-05 | 0.000065 | 1700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.025524812 | | | | | | | 0.00003 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.025524812 | 0.400739549 | 0.000120222 | 0.00012 | 4700 | 1 | 4700 | 0.00003 | 0.03102406 | 145.8130827 | 0.004374392 | 0.0044 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.025524812 | 0.293535338 | 8.80606E-05 | 0.000088 | 4700 | 1 | 4700 | 0.00003 | 0.03102406 | 145.8130827 | 0.004374392 | 0.0044 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.025524812 | 0.057175579 | 1.71527E-05 | 0.000017 | 2300 | 1 | 2300 | 0.00003 | 0.03102406 | 71.35533835 | 0.00214066 | 0.0021 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.025524812 | 3.241651128 | 0.000972495 | 0.00097 | 120000 | 1 | 120000 | 0.00003 | 0.03102406 | 3722.887218 | 0.111686617 | 0.11 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.025524812 | 0.056154586 | 1.68464E-05 | 0.000017 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.025524812 | 0.059472812 | 1.78418E-05 | 0.000018 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.025524812 | 0.178673684 | 5.36021E-05 | 0.000054 | 3100 | 1 | 3100 | 0.00003 | 0.03102406 | 96.17458647 | 0.002885238 | 0.0029 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.025524812 | 0.12762406 | 3.82872E-05 | 0.000038 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.025524812 | 2.897066165 | 0.00086912 | 0.00087 | 79000 | 1 | 79000 | 0.00003 | 0.03102406 | 2450.900752 | 0.073527023 | 0.074 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.025524812 | | | | | | | 0.00003 | 0.03102406 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.025524812 | 1.291555489 | 0.000387467 | 0.00039 | 25000 | 1 | 25000 | 0.00003 | 0.03102406 | 775.6015038 | 0.023268045 | 0.023 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.025524812 | 0.24988791 | 7.49664E-05 | 0.000075 | 3700 | 1 | 3700 | 0.00003 | 0.03102406 | 114.7890226 | 0.003443671 | 0.0034 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.025524812 | 0.500286316 | 0.000150086 | 0.00015 | 6800 | 1 | 6800 | 0.00003 | 0.03102406 | 210.963609 | 0.006328908 | 0.0063 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.025524812 | | | | | | | 0.00003 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.025524812 | 1.046517293 | 0.000313955 | 0.00031 | 22000 | 1 | 22000 | 0.00003 | 0.03102406 | 682.5293233 | 0.02047588 | 0.02 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.025524812 | 1.990935338 | 0.000597281 | 0.0006 | 77000 | 1 | 77000 | 0.00003 | 0.03102406 | 2388.852632 | 0.071665579 | 0.072 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.025524812 | 1.225190977 | 0.000367557 | 0.00037 | 29000 | 1 | 29000 | 0.00003 | 0.03102406 | 899.6977444 | 0.026990932 | 0.027 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.025524812 | 0.663645113 | 0.000199094 | 0.0002 | 15000 | 1 | 15000 | 0.00003 | 0.03102406 | 465.3609023 | 0.013960827 | 0.014 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.025524812 | 0.663645113 | 0.000199094 | 0.0002 | 12000 | 1 | 12000 | 0.00003 | 0.03102406 | 372.2887218 | 0.011168662 | 0.011 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.025524812 | 0.587070677 | 0.000176121 | 0.00018 | 7400 | 1 | 7400 | 0.00003 | 0.03102406 | 229.5780451 | 0.006887341 | 0.0069 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.025524812 | 5.513359398 | 0.001654008 | 0.0017 | 100000 | 1 | 100000 | 0.00003 | 0.03102406 | 3102.406015 | 0.09307218 | 0.093 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.025524812 | 0.416054436 | 0.000124816 | 0.00012 | 4700 | 1 | 4700 | 0.00003 | 0.03102406 | 145.8130827 | 0.004374392 | 0.0044 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.025524812 | 0.801479098 | 0.000240444 | 0.00024 | 24000 | 1 | 24000 | 0.00003 | 0.03102406 | 744.5774436 | 0.022337323 | 0.022 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.025524812 | 1.084804511 | 0.000325441 | 0.00033 | 29000 | 1 | 29000 | 0.00003 | 0.03102406 | 899.6977444 | 0.026990932 | 0.027 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.025524812 | 2.274260752 | 0.000682278 | 0.00068 | 50000 | 1 | 50000 | 0.00003 | 0.03102406 | 1551.203008 | 0.04653609 | 0.047 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.025524812 | 1.317080301 | 0.000395124 | 0.0004 | 100000 | 1 | 100000 | 0.00003 | 0.03102406 | 3102.406015 | 0.09307218 | 0.093 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.025524812 | 2.302338045 | 0.000690701 | 0.00069 | 37000 | 1 | 37000 | 0.00003 | 0.03102406 | 1147.890226 | 0.034436707 | 0.034 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | 0.624694322 | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.00003 | 0.624694322 | | | |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | 0.624694322 | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00003 | 0.624694322 | 27486.55018 | 0.824596505 | 0.82 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.00003 | 0.624694322 | 10619.80348 | 0.318594104 | 0.32 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 | 0.624694322 | 8745.72051 | 0.262371615 | 0.26 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00003 | 0.624694322 | 29360.63314 | 0.880818994 | 0.88 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00003 | 0.624694322 | 28735.93882 | 0.862078165 | 0.86 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.00003 | 0.624694322 | 22488.9956 | 0.674669868 | 0.67 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 | 0.624694322 | 16866.7467 | 0.506002401 | 0.51 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.00003 | 0.624694322 | | | |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.00003 | 0.624694322 | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.00003 | 0.624694322 | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.00003 | 0.624694322 | 5372.371171 | 0.161171135 | 0.16 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | 1.045408747 | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.00003 | 1.045408747 | | | |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | 1.045408747 | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00003 | 1.045408747 | 45997.98488 | 1.379939546 | 1.4 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.00003 | 1.045408747 | 17771.9487 | 0.533158461 | 0.53 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 | 1.045408747 | 14635.72246 | 0.439071674 | 0.44 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00003 | 1.045408747 | 49134.21112 | 1.474026334 | 1.5 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00003 | 1.045408747 | 48088.80238 | 1.442664071 | 1.4 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.00003 | 1.045408747 | 37634.7149 | 1.129041447 | 1.1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 | 1.045408747 | 28226.03618 | 0.846781085 | 0.85 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.00003 | 1.045408747 | | | |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.00003 | 1.045408747 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.00003 | 1.045408747 | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.00003 | 1.045408747 | 8990.515227 | 0.269715457 | 0.27 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | 0.822189736 | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.00003 | 0.822189736 | | | |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | 0.822189736 | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00003 | 0.822189736 | 36176.34839 | 1.085290452 | 1.1 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.00003 | 0.822189736 | 13977.22552 | 0.419316765 | 0.42 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 | 0.822189736 | 11510.65631 | 0.345319689 | 0.35 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00003 | 0.822189736 | 38642.9176 | 1.159287528 | 1.2 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00003 | 0.822189736 | 37820.72787 | 1.134621836 | 1.1 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.00003 | 0.822189736 | 29598.8305 | 0.887964915 | 0.89 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 | 0.822189736 | 22199.12288 | 0.665973686 | 0.67 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.00003 | 0.822189736 | | | |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.00003 | 0.822189736 | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.00003 | 0.822189736 | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.00003 | 0.822189736 | 7070.831731 | 0.212124952 | 0.21 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.072601146 | 2.487121375 | 0.000746136 | 0.00075 | 1600 | 0 | 0 | 0.00003 | 17.90763673 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 2.072601146 | 619.7077425 | 0.185912323 | 0.19 | | | | 0.00003 | 17.90763673 | | | |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2.072601146 | 8.083144468 | 0.002424943 | 0.0024 | 2100 | 0 | 0 | 0.00003 | 17.90763673 | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 2.072601146 | 100.5211556 | 0.030156347 | 0.03 | 44000 | 1 | 44000 | 0.00003 | 17.90763673 | 787936.0159 | 23.63808048 | 24 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2.072601146 | 11.52366237 | 0.003457099 | 0.0035 | 17000 | 1 | 17000 | 0.00003 | 17.90763673 | 304429.8243 | 9.13289473 | 9.1 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.072601146 | 5.989817311 | 0.001796945 | 0.0018 | 14000 | 1 | 14000 | 0.00003 | 17.90763673 | 250706.9142 | 7.521207425 | 7.5 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 2.072601146 | 15.97975483 | 0.004793926 | 0.0048 | 47000 | 1 | 47000 | 0.00003 | 17.90763673 | 841658.9261 | 25.24976778 | 25 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 2.072601146 | 127.2577103 | 0.038177313 | 0.038 | 46000 | 1 | 46000 | 0.00003 | 17.90763673 | 823751.2894 | 24.71253868 | 25 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.072601146 | 54.0948899 | 0.016228467 | 0.016 | 36000 | 1 | 36000 | 0.00003 | 17.90763673 | 644674.9221 | 19.34024766 | 19 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.072601146 | 33.4725085 | 0.010041753 | 0.01 | 27000 | 1 | 27000 | 0.00003 | 17.90763673 | 483506.1916 | 14.50518575 | 15 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 2.072601146 | | | | | | | 0.00003 | 17.90763673 | | | |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 2.072601146 | | | | 5800 | 0 | 0 | 0.00003 | 17.90763673 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 2.072601146 | | | | 1800 | 0 | 0 | 0.00003 | 17.90763673 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2.072601146 | | | | 8600 | 1 | 8600 | 0.00003 | 17.90763673 | 154005.6758 | 4.620170275 | 4.6 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | 13.00016101 | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.00003 | 13.00016101 | | | |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | 13.00016101 | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00003 | 13.00016101 | 572007.0843 | 17.16021253 | 17 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.00003 | 13.00016101 | 221002.7371 | 6.630082113 | 6.6 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 | 13.00016101 | 182002.2541 | 5.460067623 | 5.5 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00003 | 13.00016101 | 611007.5673 | 18.33022702 | 18 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00003 | 13.00016101 | 598007.4063 | 17.94022219 | 18 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.00003 | 13.00016101 | 468005.7962 | 14.04017389 | 14 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 | 13.00016101 | 351004.3472 | 10.53013042 | 11 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.00003 | 13.00016101 | | | |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.00003 | 13.00016101 | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.00003 | 13.00016101 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.00003 | 13.00016101 | 111801.3847 | 3.35404154 | 3.4 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | 10.66240171 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.00003 | 10.66240171 | | | |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | 10.66240171 | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00003 | 10.66240171 | 469145.6751 | 14.07437025 | 14 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.00003 | 10.66240171 | 181260.829 | 5.43782487 | 5.4 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 | 10.66240171 | 149273.6239 | 4.478208717 | 4.5 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00003 | 10.66240171 | 501132.8802 | 15.03398641 | 15 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00003 | 10.66240171 | 490470.4785 | 14.71411435 | 15 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.00003 | 10.66240171 | 383846.4614 | 11.51539384 | 12 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 | 10.66240171 | 287884.8461 | 8.636545382 | 8.6 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.00003 | 10.66240171 | | | |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.00003 | 10.66240171 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.00003 | 10.66240171 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.00003 | 10.66240171 | 91696.65467 | 2.75089964 | 2.8 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | 17.54482154 | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.00003 | 17.54482154 | | | |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | 17.54482154 | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00003 | 17.54482154 | 771972.1476 | 23.15916443 | 23 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.00003 | 17.54482154 | 298261.9661 | 8.947858983 | 8.9 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 | 17.54482154 | 245627.5015 | 7.368825045 | 7.4 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00003 | 17.54482154 | 824606.6122 | 24.73819837 | 25 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00003 | 17.54482154 | 807061.7907 | 24.21185372 | 24 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.00003 | 17.54482154 | 631613.5753 | 18.94840726 | 19 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 | 17.54482154 | 473710.1815 | 14.21130544 | 14 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.00003 | 17.54482154 | | | |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.00003 | 17.54482154 | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.00003 | 17.54482154 | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.00003 | 17.54482154 | 150885.4652 | 4.526563956 | 4.5 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | 3.112356054 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.00003 | 3.112356054 | | | |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | 3.112356054 | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00003 | 3.112356054 | 136943.6664 | 4.108309991 | 4.1 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.00003 | 3.112356054 | 52910.05291 | 1.587301587 | 1.6 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 | 3.112356054 | 43572.98475 | 1.307189542 | 1.3 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00003 | 3.112356054 | 146280.7345 | 4.388422035 | 4.4 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00003 | 3.112356054 | 143168.3785 | 4.295051354 | 4.3 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.00003 | 3.112356054 | 112044.8179 | 3.361344538 | 3.4 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 | 3.112356054 | 84033.61345 | 2.521008403 | 2.5 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.00003 | 3.112356054 | | | |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.00003 | 3.112356054 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.00003 | 3.112356054 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.00003 | 3.112356054 | 26766.26206 | 0.802987862 | 0.8 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.051136364 | 0.061363636 | 1.84091E-05 | 0.000018 | 1600 | 0 | 0 | 0.00003 | 10.61030473 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.051136364 | 15.28977273 | 0.004586932 | 0.0046 | | | | 0.00003 | 10.61030473 | | | |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.051136364 | 0.199431818 | 5.98295E-05 | 0.00006 | 2100 | 0 | 0 | 0.00003 | 10.61030473 | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.051136364 | 2.480113636 | 0.000744034 | 0.00074 | 44000 | 1 | 44000 | 0.00003 | 10.61030473 | 466853.408 | 14.00560224 | 14 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.051136364 | 0.284318182 | 8.52955E-05 | 0.000085 | 17000 | 1 | 17000 | 0.00003 | 10.61030473 | 180375.1804 | 5.411255411 | 5.4 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.051136364 | 0.147784091 | 4.43352E-05 | 0.000044 | 14000 | 1 | 14000 | 0.00003 | 10.61030473 | 148544.2662 | 4.456327986 | 4.5 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.051136364 | 0.394261364 | 0.000118278 | 0.00012 | 47000 | 1 | 47000 | 0.00003 | 10.61030473 | 498684.3222 | 14.96052967 | 15 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.051136364 | 3.139772727 | 0.000941932 | 0.00094 | 46000 | 1 | 46000 | 0.00003 | 10.61030473 | 488074.0175 | 14.64222052 | 15 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.051136364 | 1.334659091 | 0.000400398 | 0.0004 | 36000 | 1 | 36000 | 0.00003 | 10.61030473 | 381970.9702 | 11.45912911 | 11 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.051136364 | 0.825852273 | 0.000247756 | 0.00025 | 27000 | 1 | 27000 | 0.00003 | 10.61030473 | 286478.2277 | 8.59434683 | 8.6 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.051136364 | | | | | | | 0.00003 | 10.61030473 | | | |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.051136364 | | | | 5800 | 0 | 0 | 0.00003 | 10.61030473 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.051136364 | | | | 1800 | 0 | 0 | 0.00003 | 10.61030473 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.051136364 | | | | 8600 | 1 | 8600 | 0.00003 | 10.61030473 | 91248.62066 | 2.73745862 | 2.7 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | 6.812859272 | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.00003 | 6.812859272 | | | |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | 6.812859272 | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00003 | 6.812859272 | 299765.808 | 8.992974239 | 9 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.00003 | 6.812859272 | 115818.6076 | 3.474558229 | 3.5 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 | 6.812859272 | 95380.02981 | 2.861400894 | 2.9 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00003 | 6.812859272 | 320204.3858 | 9.606131573 | 9.6 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00003 | 6.812859272 | 313391.5265 | 9.401745795 | 9.4 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.00003 | 6.812859272 | 245262.9338 | 7.357888014 | 7.4 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 | 6.812859272 | 183947.2003 | 5.51841601 | 5.5 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.00003 | 6.812859272 | | | |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.00003 | 6.812859272 | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.00003 | 6.812859272 | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.00003 | 6.812859272 | 58590.58974 | 1.757717692 | 1.8 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | 10.99280069 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.00003 | 10.99280069 | | | |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | 10.99280069 | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00003 | 10.99280069 | 483683.2301 | 14.5104969 | 15 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.00003 | 10.99280069 | 186877.6116 | 5.606328349 | 5.6 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 | 10.99280069 | 153899.2096 | 4.616976288 | 4.6 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00003 | 10.99280069 | 516661.6322 | 15.49984897 | 15 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00003 | 10.99280069 | 505668.8315 | 15.17006495 | 15 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.00003 | 10.99280069 | 395740.8247 | 11.87222474 | 12 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 | 10.99280069 | 296805.6185 | 8.904168555 | 8.9 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.00003 | 10.99280069 | | | |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.00003 | 10.99280069 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.00003 | 10.99280069 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.00003 | 10.99280069 | 94538.08589 | 2.836142577 | 2.8 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 200000 | 1 | 200000 | 0.00003 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 63000 | 1 | 63000 | 0.00003 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00003 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 96000 | 1 | 96000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 280000 | 1 | 280000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 89000 | 1 | 89000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 8800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 86000 | 1 | 86000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 9400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 95000 | 1 | 95000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 14000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 3000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 29000 | 1 | 29000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 24000 | 1 | 24000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 240000 | 1 | 240000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 6800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 45000 | 1 | 45000 | 0.00003 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00003 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.00003 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | 0.00003 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 48000 | 1 | 48000 | 0.00003 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00003 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 30000 | 1 | 30000 | 0.00003 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00003 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | 0.00003 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.00003 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | 0.00003 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 76000 | 1 | 76000 | 0.00003 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00003 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 175000 | 1 | 175000 | 0.00003 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | 0.00003 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8900 | 1 | 8900 | 0.00003 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00003 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00003 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 26000 | 1 | 26000 | 0.00003 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00003 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 80000 | 1 | 80000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 41000 | 1 | 41000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 82000 | 1 | 82000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 93000 | 1 | 93000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00003 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 26000 | 1 | 26000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 100000 | 1 | 100000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 63000 | 1 | 63000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 58000 | 1 | 58000 | 0.00003 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | 0.00003 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 80000 | 1 | 80000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 35000 | 1 | 35000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 60000 | 1 | 60000 | 0.00003 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 220000 | 1 | 220000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 69000 | 1 | 69000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 41000 | 1 | 41000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 86000 | 1 | 86000 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 84000 | 1 | 84000 | 0.00003 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7300 | 1 | 7300 | 0.00003 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00003 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5700 | 1 | 5700 | 0.00003 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1900 | 1 | 1900 | 0.00003 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 32000 | 1 | 32000 | 0.00003 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00003 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3350 | 1 | 3350 | 0.00003 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9500 | 1 | 9500 | 0.00003 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9700 | 1 | 9700 | 0.00003 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.00003 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | 0.00003 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00003 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5900 | 1 | 5900 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2600 | 1 | 2600 | 0.00003 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 165000 | 1 | 165000 | 0.00003 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00003 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 1 | 7000 | 0.00003 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 38000 | 1 | 38000 | 0.00003 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | 0.00003 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 64000 | 1 | 64000 | 0.00003 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.00003 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.00003 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 16000 | 1 | 16000 | 0.00003 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00003 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9900 | 1 | 9900 | 0.00003 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00003 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 59000 | 1 | 59000 | 0.00003 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00003 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | 0.00003 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 78000 | 1 | 78000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 200000 | 1 | 200000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 63000 | 1 | 63000 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 96000 | 1 | 96000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 280000 | 1 | 280000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 89000 | 1 | 89000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 8800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 86000 | 1 | 86000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 9400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 95000 | 1 | 95000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 14000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 3000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 29000 | 1 | 29000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 24000 | 1 | 24000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 240000 | 1 | 240000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 6800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 45000 | 1 | 45000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 48000 | 1 | 48000 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 30000 | 1 | 30000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 76000 | 1 | 76000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 175000 | 1 | 175000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8900 | 1 | 8900 | 0.00003 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 26000 | 1 | 26000 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 80000 | 1 | 80000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 41000 | 1 | 41000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 82000 | 1 | 82000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 93000 | 1 | 93000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 26000 | 1 | 26000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 100000 | 1 | 100000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 63000 | 1 | 63000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 58000 | 1 | 58000 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 80000 | 1 | 80000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 35000 | 1 | 35000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 60000 | 1 | 60000 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 220000 | 1 | 220000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 69000 | 1 | 69000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 41000 | 1 | 41000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 86000 | 1 | 86000 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 84000 | 1 | 84000 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7300 | 1 | 7300 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5700 | 1 | 5700 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1900 | 1 | 1900 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 32000 | 1 | 32000 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3350 | 1 | 3350 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9500 | 1 | 9500 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9700 | 1 | 9700 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5900 | 1 | 5900 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2600 | 1 | 2600 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 165000 | 1 | 165000 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 1 | 7000 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 38000 | 1 | 38000 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 64000 | 1 | 64000 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 16000 | 1 | 16000 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9900 | 1 | 9900 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 59000 | 1 | 59000 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 78000 | 1 | 78000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 200000 | 1 | 200000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 63000 | 1 | 63000 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 140000 | 1 | 140000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 96000 | 1 | 96000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 280000 | 1 | 280000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 89000 | 1 | 89000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 8800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 86000 | 1 | 86000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 9400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 95000 | 1 | 95000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 14000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 150000 | 1 | 150000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 15000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 3000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 29000 | 1 | 29000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 15000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 24000 | 1 | 24000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 240000 | 1 | 240000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 6800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 45000 | 1 | 45000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 230000 | 1 | 230000 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 48000 | 1 | 48000 | 0.00003 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00003 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 30000 | 1 | 30000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00003 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 180000 | 1 | 180000 | 0.00003 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 76000 | 1 | 76000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 175000 | 1 | 175000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.00003 | 0.03102406 | | | | | | | 0.00003 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8900 | 1 | 8900 | 0.00003 | 0.03102406 | 276.1141353 | 0.008283424 | 0.0083 | 190000 | 1 | 190000 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00003 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 26000 | 1 | 26000 | 0.00003 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00003 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 80000 | 1 | 80000 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 41000 | 1 | 41000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 82000 | 1 | 82000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 93000 | 1 | 93000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00003 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 26000 | 1 | 26000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 100000 | 1 | 100000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 63000 | 1 | 63000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 58000 | 1 | 58000 | 0.00003 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 140000 | 1 | 140000 | 0.00003 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 80000 | 1 | 80000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 35000 | 1 | 35000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 60000 | 1 | 60000 | 0.00003 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 220000 | 1 | 220000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 180000 | 1 | 180000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 69000 | 1 | 69000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 41000 | 1 | 41000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 86000 | 1 | 86000 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 84000 | 1 | 84000 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 7300 | 1 | 7300 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 5700 | 1 | 5700 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1900 | 1 | 1900 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 32000 | 1 | 32000 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3350 | 1 | 3350 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.00003 | 0.03102406 | | | | | | | 0.00003 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 9500 | 1 | 9500 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 9700 | 1 | 9700 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 230000 | 1 | 230000 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 5900 | 1 | 5900 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 2600 | 1 | 2600 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 165000 | 1 | 165000 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.00003 | 0.03102406 | | | | | | | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 7000 | 1 | 7000 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.00003 | 0.03102406 | | | | | | | 0.00003 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 38000 | 1 | 38000 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 150000 | 1 | 150000 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 64000 | 1 | 64000 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.00003 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 16000 | 1 | 16000 | 0.00003 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00003 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 9900 | 1 | 9900 | 0.00003 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00003 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 59000 | 1 | 59000 | 0.00003 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00003 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 210000 | 1 | 210000 | 0.00003 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 78000 | 1 | 78000 | 0.00003 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00003 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00003 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00003 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00003 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00003 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00003 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00003 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00003 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00003 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00003 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00003 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00003 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00003 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00003 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00003 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00003 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00003 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00003 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00003 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00003 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00003 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00003 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00003 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00003 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00003 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00003 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00003 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00003 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00003 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00003 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00003 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00003 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00003 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00003 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00003 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00003 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00003 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00003 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00003 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00003 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00003 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00003 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00003 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00003 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00003 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00003 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00003 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00003 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00003 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00003 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00003 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00003 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00003 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00003 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00003 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00003 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00003 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00003 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00003 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00003 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00003 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00003 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00003 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00003 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00003 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00003 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00003 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00003 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00003 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00003 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00003 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00003 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00003 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00003 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00003 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00003 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00003 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.652086677 | 130417.3355 | 3.912520064 | 3.9 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.652086677 | 41081.46067 | 1.23244382 | 1.2 | 6100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.652086677 | 52819.02087 | 1.584570626 | 1.6 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.652086677 | 123896.4687 | 3.716894061 | 3.7 | 6700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.652086677 | 91292.13483 | 2.738764045 | 2.7 | 8600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.652086677 | 62600.32103 | 1.878009631 | 1.9 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.652086677 | 84771.26806 | 2.543138042 | 2.5 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.652086677 | 17606.34029 | 0.528190209 | 0.53 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.652086677 | 182584.2697 | 5.47752809 | 5.5 | 12000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.652086677 | 58035.71429 | 1.741071429 | 1.7 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.652086677 | 56079.45425 | 1.682383628 | 1.7 | 8800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.652086677 | 61948.23435 | 1.85844703 | 1.9 | 9400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.652086677 | 97813.00161 | 2.934390048 | 2.9 | 14000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.652086677 | 84771.26806 | 2.543138042 | 2.5 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.652086677 | 18910.51364 | 0.567315409 | 0.57 | 3000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.652086677 | 71729.53451 | 2.151886035 | 2.2 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.652086677 | 31952.24719 | 0.958567416 | 0.96 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.652086677 | 17606.34029 | 0.528190209 | 0.53 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.652086677 | 15650.08026 | 0.469502408 | 0.47 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.652086677 | 156500.8026 | 4.695024077 | 4.7 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.652086677 | 29343.90048 | 0.880317014 | 0.88 | 6800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.652086677 | 16302.16693 | 0.489065008 | 0.49 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.652086677 | 71729.53451 | 2.151886035 | 2.2 | 6500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.652086677 | 46298.15409 | 1.388944623 | 1.4 | 5400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.652086677 | 84771.26806 | 2.543138042 | 2.5 | 7800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.652086677 | 149979.9358 | 4.499398074 | 4.5 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.652086677 | 31300.16051 | 0.939004815 | 0.94 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.652086677 | 84771.26806 | 2.543138042 | 2.5 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.652086677 | 110854.7352 | 3.325642055 | 3.3 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.652086677 | 19562.60032 | 0.58687801 | 0.59 | 3100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.652086677 | 31952.24719 | 0.958567416 | 0.96 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.652086677 | 117375.6019 | 3.521268058 | 3.5 | 11000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.652086677 | 18258.42697 | 0.547752809 | 0.55 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.652086677 | 104333.8684 | 3.130016051 | 3.1 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.652086677 | 49558.58748 | 1.486757624 | 1.5 | 7100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.652086677 | 123896.4687 | 3.716894061 | 3.7 | 9600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.652086677 | 114115.1685 | 3.423455056 | 3.4 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.652086677 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.652086677 | 104333.8684 | 3.130016051 | 3.1 | 7400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.652086677 | 123896.4687 | 3.716894061 | 3.7 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.652086677 | 84771.26806 | 2.543138042 | 2.5 | 6700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.652086677 | 71729.53451 | 2.151886035 | 2.2 | 8500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.652086677 | 110854.7352 | 3.325642055 | 3.3 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.652086677 | 16954.25361 | 0.508627608 | 0.51 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.652086677 | 71729.53451 | 2.151886035 | 2.2 | 9100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.652086677 | 52166.93419 | 1.565008026 | 1.6 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.652086677 | 26735.55377 | 0.802066613 | 0.8 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.652086677 | 31952.24719 | 0.958567416 | 0.96 | 6000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.652086677 | 53471.10754 | 1.604133226 | 1.6 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.652086677 | 60644.061 | 1.81932183 | 1.8 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.652086677 | 52819.02087 | 1.584570626 | 1.6 | 5400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.652086677 | 16954.25361 | 0.508627608 | 0.51 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.652086677 | 65208.66774 | 1.956260032 | 2 | 6900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.652086677 | 41081.46067 | 1.23244382 | 1.2 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.652086677 | 37821.02729 | 1.134630819 | 1.1 | 3100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.652086677 | 84771.26806 | 2.543138042 | 2.5 | 8600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.652086677 | 91292.13483 | 2.738764045 | 2.7 | 8700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.652086677 | 52819.02087 | 1.584570626 | 1.6 | 4500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.652086677 | 52166.93419 | 1.565008026 | 1.6 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.652086677 | 46298.15409 | 1.388944623 | 1.4 | 3700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.652086677 | 22823.03371 | 0.684691011 | 0.68 | 3600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.652086677 | 39125.20064 | 1.173756019 | 1.2 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.652086677 | 143459.069 | 4.303772071 | 4.3 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.652086677 | 117375.6019 | 3.521268058 | 3.5 | 7900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.652086677 | 44993.98074 | 1.349819422 | 1.3 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.652086677 | 110854.7352 | 3.325642055 | 3.3 | 18000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.652086677 | 26735.55377 | 0.802066613 | 0.8 | 4400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.652086677 | 56079.45425 | 1.682383628 | 1.7 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.652086677 | 54775.2809 | 1.643258427 | 1.6 | 6800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.652086677 | 4760.232745 | 0.142806982 | 0.14 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.652086677 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.652086677 | 3716.894061 | 0.111506822 | 0.11 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.652086677 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.652086677 | 9129.213483 | 0.273876404 | 0.27 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.652086677 | 1238.964687 | 0.037168941 | 0.037 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.652086677 | 20866.77368 | 0.62600321 | 0.63 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.652086677 | 28691.8138 | 0.860754414 | 0.86 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.652086677 | 2184.490369 | 0.065534711 | 0.066 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.652086677 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.652086677 | 6194.823435 | 0.185844703 | 0.19 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.652086677 | 6325.24077 | 0.189757223 | 0.19 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.652086677 | 2021.4687 | 0.060644061 | 0.061 | 4100 | 1 | 4100 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.652086677 | 149979.9358 | 4.499398074 | 4.5 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.652086677 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.652086677 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.652086677 | 3847.311396 | 0.115419342 | 0.12 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.652086677 | 1695.425361 | 0.050862761 | 0.051 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.652086677 | 107594.3018 | 3.227829053 | 3.2 | 23000 | 1 | 23000 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.652086677 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.652086677 | 29995.98716 | 0.899879615 | 0.9 | 2900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.652086677 | 4564.606742 | 0.136938202 | 0.14 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.652086677 | 9129.213483 | 0.273876404 | 0.27 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.652086677 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.652086677 | 24779.29374 | 0.743378812 | 0.74 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.652086677 | 97813.00161 | 2.934390048 | 2.9 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.652086677 | 41733.54735 | 1.252006421 | 1.3 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.652086677 | 18258.42697 | 0.547752809 | 0.55 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.652086677 | 14345.9069 | 0.430377207 | 0.43 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.652086677 | 10433.38684 | 0.313001605 | 0.31 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.652086677 | 123896.4687 | 3.716894061 | 3.7 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.652086677 | 6455.658106 | 0.193669743 | 0.19 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.652086677 | 30648.07384 | 0.919442215 | 0.92 | 6500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.652086677 | 38473.11396 | 1.154193419 | 1.2 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.652086677 | 61296.14767 | 1.83888443 | 1.8 | 7400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.652086677 | 136938.2022 | 4.108146067 | 4.1 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.652086677 | 50862.76083 | 1.525882825 | 1.5 | 7600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.134294284 | 26858.85671 | 0.805765701 | 0.81 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.134294284 | 8460.539863 | 0.253816196 | 0.25 | 6100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.134294284 | 10877.83697 | 0.326335109 | 0.33 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.134294284 | 25515.91387 | 0.765477416 | 0.77 | 6700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.134294284 | 18801.1997 | 0.564035991 | 0.56 | 8600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.134294284 | 12892.25122 | 0.386767537 | 0.39 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.134294284 | 17458.25686 | 0.523747706 | 0.52 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.134294284 | 3625.945656 | 0.10877837 | 0.11 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.134294284 | 37602.39939 | 1.128071982 | 1.1 | 12000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.134294284 | 11952.19124 | 0.358565737 | 0.36 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.134294284 | 11549.30838 | 0.346479252 | 0.35 | 8800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.134294284 | 12757.95694 | 0.382738708 | 0.38 | 9400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.134294284 | 20144.14253 | 0.604324276 | 0.6 | 14000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.134294284 | 17458.25686 | 0.523747706 | 0.52 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.134294284 | 3894.534223 | 0.116836027 | 0.12 | 3000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.134294284 | 14772.37119 | 0.443171136 | 0.44 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.134294284 | 6580.419893 | 0.197412597 | 0.2 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.134294284 | 3625.945656 | 0.10877837 | 0.11 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.134294284 | 3223.062805 | 0.096691884 | 0.097 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.134294284 | 32230.62805 | 0.966918841 | 0.97 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.134294284 | 6043.242759 | 0.181297283 | 0.18 | 6800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.134294284 | 3357.357088 | 0.100720713 | 0.1 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.134294284 | 14772.37119 | 0.443171136 | 0.44 | 6500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.134294284 | 9534.894131 | 0.286046824 | 0.29 | 5400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.134294284 | 17458.25686 | 0.523747706 | 0.52 | 7800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.134294284 | 30887.68521 | 0.926630556 | 0.93 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.134294284 | 6446.12561 | 0.193383768 | 0.19 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.134294284 | 17458.25686 | 0.523747706 | 0.52 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.134294284 | 22830.0282 | 0.684900846 | 0.68 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.134294284 | 4028.828506 | 0.120864855 | 0.12 | 3100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.134294284 | 6580.419893 | 0.197412597 | 0.2 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.134294284 | 24172.97104 | 0.725189131 | 0.73 | 11000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.134294284 | 3760.239939 | 0.112807198 | 0.11 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.134294284 | 21487.08537 | 0.644612561 | 0.64 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.134294284 | 10206.36555 | 0.306190966 | 0.31 | 7100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.134294284 | 25515.91387 | 0.765477416 | 0.77 | 9600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.134294284 | 23501.49962 | 0.705044989 | 0.71 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.134294284 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.134294284 | 21487.08537 | 0.644612561 | 0.64 | 7400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.134294284 | 25515.91387 | 0.765477416 | 0.77 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.134294284 | 17458.25686 | 0.523747706 | 0.52 | 6700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.134294284 | 14772.37119 | 0.443171136 | 0.44 | 8500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.134294284 | 22830.0282 | 0.684900846 | 0.68 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.134294284 | 3491.651372 | 0.104749541 | 0.1 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.134294284 | 14772.37119 | 0.443171136 | 0.44 | 9100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.134294284 | 10743.54268 | 0.32230628 | 0.32 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.134294284 | 5506.065625 | 0.165181969 | 0.17 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.134294284 | 6580.419893 | 0.197412597 | 0.2 | 6000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.134294284 | 11012.13125 | 0.330363938 | 0.33 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.134294284 | 12489.36837 | 0.374681051 | 0.37 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.134294284 | 10877.83697 | 0.326335109 | 0.33 | 5400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.134294284 | 3491.651372 | 0.104749541 | 0.1 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.134294284 | 13429.42835 | 0.402882851 | 0.4 | 6900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.134294284 | 8460.539863 | 0.253816196 | 0.25 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.134294284 | 7789.068445 | 0.233672053 | 0.23 | 3100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.134294284 | 17458.25686 | 0.523747706 | 0.52 | 8600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.134294284 | 18801.1997 | 0.564035991 | 0.56 | 8700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.134294284 | 10877.83697 | 0.326335109 | 0.33 | 4500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.134294284 | 10743.54268 | 0.32230628 | 0.32 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.134294284 | 9534.894131 | 0.286046824 | 0.29 | 3700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.134294284 | 4700.299924 | 0.141008998 | 0.14 | 3600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.134294284 | 8057.657012 | 0.24172971 | 0.24 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.134294284 | 29544.74238 | 0.886342271 | 0.89 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.134294284 | 24172.97104 | 0.725189131 | 0.73 | 7900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.134294284 | 9266.305564 | 0.277989167 | 0.28 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.134294284 | 22830.0282 | 0.684900846 | 0.68 | 18000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.134294284 | 5506.065625 | 0.165181969 | 0.17 | 4400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.134294284 | 11549.30838 | 0.346479252 | 0.35 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.134294284 | 11280.71982 | 0.338421595 | 0.34 | 6800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.134294284 | 980.3482698 | 0.029410448 | 0.029 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.134294284 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.134294284 | 765.4774162 | 0.022964322 | 0.023 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.134294284 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.134294284 | 1880.11997 | 0.056403599 | 0.056 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.134294284 | 255.1591387 | 0.007654774 | 0.0077 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.134294284 | 4297.417073 | 0.128922512 | 0.13 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.134294284 | 5908.948476 | 0.177268454 | 0.18 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.134294284 | 449.8858499 | 0.013496575 | 0.013 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.134294284 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.134294284 | 1275.795694 | 0.038273871 | 0.038 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.134294284 | 1302.65455 | 0.039079637 | 0.039 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.134294284 | 416.312279 | 0.012489368 | 0.012 | 4100 | 1 | 4100 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.134294284 | 30887.68521 | 0.926630556 | 0.93 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.134294284 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.134294284 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.134294284 | 792.3362729 | 0.023770088 | 0.024 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.134294284 | 349.1651372 | 0.010474954 | 0.01 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.134294284 | 22158.55678 | 0.664756704 | 0.66 | 23000 | 1 | 23000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.134294284 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.134294284 | 6177.537043 | 0.185326111 | 0.19 | 2900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.134294284 | 940.0599848 | 0.0282018 | 0.028 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.134294284 | 1880.11997 | 0.056403599 | 0.056 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.134294284 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.134294284 | 5103.182775 | 0.153095483 | 0.15 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.134294284 | 20144.14253 | 0.604324276 | 0.6 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.134294284 | 8594.834147 | 0.257845024 | 0.26 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.134294284 | 3760.239939 | 0.112807198 | 0.11 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.134294284 | 2954.474238 | 0.088634227 | 0.089 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.134294284 | 2148.708537 | 0.064461256 | 0.064 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.134294284 | 25515.91387 | 0.765477416 | 0.77 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.134294284 | 1329.513407 | 0.039885402 | 0.04 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.134294284 | 6311.831326 | 0.18935494 | 0.19 | 6500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.134294284 | 7923.362729 | 0.237700882 | 0.24 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.134294284 | 12623.66265 | 0.37870988 | 0.38 | 7400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.134294284 | 28201.79954 | 0.846053986 | 0.85 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.134294284 | 10474.95412 | 0.314248623 | 0.31 | 7600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.03102406 | 6204.81203 | 0.186144361 | 0.19 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.03102406 | 1954.515789 | 0.058635474 | 0.059 | 6100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.03102406 | 2512.948872 | 0.075388466 | 0.075 | 5600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.03102406 | 5894.571429 | 0.176837143 | 0.18 | 6700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.03102406 | 4343.368421 | 0.130301053 | 0.13 | 8600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.03102406 | 2978.309774 | 0.089349293 | 0.089 | 7000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.03102406 | 4033.12782 | 0.120993835 | 0.12 | 8300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.03102406 | 837.6496241 | 0.025129489 | 0.025 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.03102406 | 8686.736842 | 0.260602105 | 0.26 | 12000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.03102406 | 2761.141353 | 0.082834241 | 0.083 | 7000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.03102406 | 2668.069173 | 0.080042075 | 0.08 | 8800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.03102406 | 2947.285714 | 0.088418571 | 0.088 | 9400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.03102406 | 4653.609023 | 0.139608271 | 0.14 | 14000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.03102406 | 4033.12782 | 0.120993835 | 0.12 | 15000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.03102406 | 899.6977444 | 0.026990932 | 0.027 | 3000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.03102406 | 3412.646617 | 0.102379398 | 0.1 | 15000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.03102406 | 1520.178947 | 0.045605368 | 0.046 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.03102406 | 837.6496241 | 0.025129489 | 0.025 | 1800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.03102406 | 744.5774436 | 0.022337323 | 0.022 | 3400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.03102406 | 7445.774436 | 0.223373233 | 0.22 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.03102406 | 1396.082707 | 0.041882481 | 0.042 | 6800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.03102406 | 775.6015038 | 0.023268045 | 0.023 | 3200 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.03102406 | 3412.646617 | 0.102379398 | 0.1 | 6500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.03102406 | 2202.708271 | 0.066081248 | 0.066 | 5400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.03102406 | 4033.12782 | 0.120993835 | 0.12 | 7800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.03102406 | 7135.533835 | 0.214066015 | 0.21 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.03102406 | 1489.154887 | 0.044674647 | 0.045 | 5100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.03102406 | 4033.12782 | 0.120993835 | 0.12 | 9500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.03102406 | 5274.090226 | 0.158222707 | 0.16 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.03102406 | 930.7218045 | 0.027921654 | 0.028 | 3100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.03102406 | 1520.178947 | 0.045605368 | 0.046 | 3400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.03102406 | 5584.330827 | 0.167529925 | 0.17 | 11000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.03102406 | 868.6736842 | 0.026060211 | 0.026 | 3400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.03102406 | 4963.849624 | 0.148915489 | 0.15 | 15000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.03102406 | 2357.828571 | 0.070734857 | 0.071 | 7100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.03102406 | 5894.571429 | 0.176837143 | 0.18 | 9600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.03102406 | 5429.210526 | 0.162876316 | 0.16 | 5800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.03102406 | | | | | | | 0.00003 | 0.03102406 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.03102406 | 4963.849624 | 0.148915489 | 0.15 | 7400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.03102406 | 5894.571429 | 0.176837143 | 0.18 | 8300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.03102406 | 4033.12782 | 0.120993835 | 0.12 | 6700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.03102406 | 3412.646617 | 0.102379398 | 0.1 | 8500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.03102406 | 5274.090226 | 0.158222707 | 0.16 | 9500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.03102406 | 806.6255639 | 0.024198767 | 0.024 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.03102406 | 3412.646617 | 0.102379398 | 0.1 | 9100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.03102406 | 2481.924812 | 0.074457744 | 0.074 | 7000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.03102406 | 1271.986466 | 0.038159594 | 0.038 | 4700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.03102406 | 1520.178947 | 0.045605368 | 0.046 | 6000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.03102406 | 2543.972932 | 0.076319188 | 0.076 | 4900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.03102406 | 2885.237594 | 0.086557128 | 0.087 | 8300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.03102406 | 2512.948872 | 0.075388466 | 0.075 | 5400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.03102406 | 806.6255639 | 0.024198767 | 0.024 | 1800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.03102406 | 3102.406015 | 0.09307218 | 0.093 | 6900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.03102406 | 1954.515789 | 0.058635474 | 0.059 | 4700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.03102406 | 1799.395489 | 0.053981865 | 0.054 | 3100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.03102406 | 4033.12782 | 0.120993835 | 0.12 | 8600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.03102406 | 4343.368421 | 0.130301053 | 0.13 | 8700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.03102406 | 2512.948872 | 0.075388466 | 0.075 | 4500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.03102406 | 2481.924812 | 0.074457744 | 0.074 | 5600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.03102406 | 2202.708271 | 0.066081248 | 0.066 | 3700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.03102406 | 1085.842105 | 0.032575263 | 0.033 | 3600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.03102406 | 1861.443609 | 0.055843308 | 0.056 | 4800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.03102406 | 6825.293233 | 0.204758797 | 0.2 | 16000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.03102406 | 5584.330827 | 0.167529925 | 0.17 | 7900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.03102406 | 2140.66015 | 0.064219805 | 0.064 | 5100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.03102406 | 5274.090226 | 0.158222707 | 0.16 | 18000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.03102406 | 1271.986466 | 0.038159594 | 0.038 | 4400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.03102406 | 2668.069173 | 0.080042075 | 0.08 | 5600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.03102406 | 2606.021053 | 0.078180632 | 0.078 | 6800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.03102406 | 226.4756391 | 0.006794269 | 0.0068 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.03102406 | 176.8371429 | 0.005305114 | 0.0053 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.03102406 | 434.3368421 | 0.013030105 | 0.013 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.03102406 | 58.94571429 | 0.001768371 | 0.0018 | 1700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.03102406 | 992.7699248 | 0.029783098 | 0.03 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.03102406 | 1365.058647 | 0.040951759 | 0.041 | 3400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.03102406 | 103.9306015 | 0.003117918 | 0.0031 | 1700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.03102406 | | | | | | | 0.00003 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.03102406 | 294.7285714 | 0.008841857 | 0.0088 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.03102406 | 300.9333835 | 0.009028002 | 0.009 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.03102406 | 96.17458647 | 0.002885238 | 0.0029 | 4100 | 1 | 4100 | 0.00003 | 0.03102406 | 127.1986466 | 0.003815959 | 0.0038 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.03102406 | 7135.533835 | 0.214066015 | 0.21 | 15000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.03102406 | 183.0419549 | 0.005491259 | 0.0055 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.03102406 | 80.66255639 | 0.002419877 | 0.0024 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.03102406 | 5118.969925 | 0.153569098 | 0.15 | 23000 | 1 | 23000 | 0.00003 | 0.03102406 | 713.5533835 | 0.021406602 | 0.021 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.03102406 | | | | | | | 0.00003 | 0.03102406 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.03102406 | 1427.106767 | 0.042813203 | 0.043 | 2900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.03102406 | 217.1684211 | 0.006515053 | 0.0065 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.03102406 | 434.3368421 | 0.013030105 | 0.013 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.03102406 | | | | | | | 0.00003 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.03102406 | 1178.914286 | 0.035367429 | 0.035 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.03102406 | 4653.609023 | 0.139608271 | 0.14 | 16000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.03102406 | 1985.53985 | 0.059566195 | 0.06 | 4900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.03102406 | 868.6736842 | 0.026060211 | 0.026 | 3200 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.03102406 | 682.5293233 | 0.02047588 | 0.02 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.03102406 | 496.3849624 | 0.014891549 | 0.015 | 3200 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.03102406 | 5894.571429 | 0.176837143 | 0.18 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.03102406 | 307.1381955 | 0.009214146 | 0.0092 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.03102406 | 1458.130827 | 0.043743925 | 0.044 | 6500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.03102406 | 1830.419549 | 0.054912586 | 0.055 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.03102406 | 2916.261654 | 0.08748785 | 0.087 | 7400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.03102406 | 6515.052632 | 0.195451579 | 0.2 | 16000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.03102406 | 2419.876692 | 0.072596301 | 0.073 | 7600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.527603781 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.527603781 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.527603781 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.527603781 | 49594.75539 | 1.487842662 | 1.5 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.527603781 | 14245.30208 | 0.427359062 | 0.43 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.527603781 | 12134.88696 | 0.364046609 | 0.36 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.527603781 | 48011.94405 | 1.440358322 | 1.4 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.527603781 | 51705.17052 | 1.551155116 | 1.6 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.527603781 | 37987.47222 | 1.139624166 | 1.1 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.527603781 | 26643.99093 | 0.799319728 | 0.8 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.527603781 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.527603781 | 6858.84915 | 0.205765475 | 0.21 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.527603781 | 1160.728318 | 0.03482185 | 0.035 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.527603781 | 13190.09452 | 0.395702836 | 0.4 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.952407589 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.952407589 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.952407589 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.952407589 | 89526.31341 | 2.685789402 | 2.7 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.952407589 | 25715.00491 | 0.771450147 | 0.77 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.952407589 | 21905.37456 | 0.657161237 | 0.66 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.952407589 | 86669.09064 | 2.600072719 | 2.6 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.952407589 | 93335.94376 | 2.800078313 | 2.8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.952407589 | 68573.34644 | 2.057200393 | 2.1 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.952407589 | 48096.58327 | 1.442897498 | 1.4 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.952407589 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.952407589 | 12381.29866 | 0.37143896 | 0.37 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.952407589 | 2095.296697 | 0.062858901 | 0.063 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.952407589 | 23810.18974 | 0.714305692 | 0.71 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.88166588 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.88166588 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.88166588 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.88166588 | 82876.59276 | 2.486297783 | 2.5 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.88166588 | 23804.97877 | 0.714149363 | 0.71 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.88166588 | 20278.31525 | 0.608349457 | 0.61 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.88166588 | 80231.59512 | 2.406947853 | 2.4 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.88166588 | 86403.25628 | 2.592097688 | 2.6 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.88166588 | 63479.94339 | 1.904398302 | 1.9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.88166588 | 44524.12696 | 1.335723809 | 1.3 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.88166588 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.88166588 | 11461.65645 | 0.343849693 | 0.34 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.88166588 | 1939.664937 | 0.058189948 | 0.058 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.88166588 | 22041.64701 | 0.66124941 | 0.66 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 20.53093687 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 20.53093687 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 20.53093687 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 20.53093687 | 1929908.066 | 57.89724199 | 58 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 20.53093687 | 554335.2956 | 16.63005887 | 17 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 20.53093687 | 472211.5481 | 14.16634644 | 14 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 20.53093687 | 1868315.256 | 56.04945767 | 56 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 20.53093687 | 2012031.814 | 60.36095441 | 60 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 20.53093687 | 1478227.455 | 44.34682365 | 44 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.53093687 | 1036812.312 | 31.10436937 | 31 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 20.53093687 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 20.53093687 | 266902.1794 | 8.007065381 | 8 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 20.53093687 | 45168.06112 | 1.355041834 | 1.4 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 20.53093687 | 513273.4219 | 15.39820266 | 15 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 18.76327514 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 18.76327514 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 18.76327514 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 18.76327514 | 1763747.863 | 52.91243589 | 53 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 18.76327514 | 506608.4288 | 15.19825286 | 15 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 18.76327514 | 431555.3282 | 12.94665985 | 13 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 18.76327514 | 1707458.038 | 51.22374113 | 51 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 18.76327514 | 1838800.964 | 55.16402891 | 55 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 18.76327514 | 1350955.81 | 40.5286743 | 41 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 18.76327514 | 947545.3946 | 28.42636184 | 28 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 18.76327514 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 18.76327514 | 243922.5768 | 7.317677304 | 7.3 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 18.76327514 | 41279.20531 | 1.238376159 | 1.2 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 18.76327514 | 469081.8785 | 14.07245635 | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 15.51695058 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 15.51695058 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 15.51695058 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 15.51695058 | 1458593.355 | 43.75780064 | 44 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 15.51695058 | 418957.6657 | 12.56872997 | 13 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 15.51695058 | 356889.8634 | 10.7066959 | 11 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 15.51695058 | 1412042.503 | 42.36127509 | 42 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 15.51695058 | 1520661.157 | 45.61983471 | 46 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 15.51695058 | 1117220.442 | 33.51661326 | 34 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 15.51695058 | 783606.0044 | 23.50818013 | 24 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 15.51695058 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 15.51695058 | 201720.3576 | 6.051610727 | 6.1 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 15.51695058 | 34137.29128 | 1.024118738 | 1 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 15.51695058 | 387923.7645 | 11.63771294 | 12 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 26.53473009 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 26.53473009 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 26.53473009 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.53473009 | 2494264.629 | 74.82793886 | 75 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 26.53473009 | 716437.7125 | 21.49313137 | 21 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 26.53473009 | 610298.7921 | 18.30896376 | 18 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 26.53473009 | 2414660.438 | 72.43981315 | 72 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 26.53473009 | 2600403.549 | 78.01210647 | 78 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 26.53473009 | 1910500.567 | 57.315017 | 57 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 26.53473009 | 1340003.87 | 40.20011609 | 40 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 26.53473009 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 26.53473009 | 344951.4912 | 10.34854474 | 10 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 26.53473009 | 58376.4062 | 1.751292186 | 1.8 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 26.53473009 | 663368.2523 | 19.90104757 | 20 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 5.872541418 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 5.872541418 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 5.872541418 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.872541418 | 552018.8933 | 16.5605668 | 17 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 5.872541418 | 158558.6183 | 4.756758548 | 4.8 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 5.872541418 | 135068.4526 | 4.052053578 | 4.1 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 5.872541418 | 534401.269 | 16.03203807 | 16 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 5.872541418 | 575509.0589 | 17.26527177 | 17 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 5.872541418 | 422822.9821 | 12.68468946 | 13 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 5.872541418 | 296563.3416 | 8.896900248 | 8.9 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 5.872541418 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5.872541418 | 76343.03843 | 2.290291153 | 2.3 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 5.872541418 | 12919.59112 | 0.387587734 | 0.39 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 5.872541418 | 146813.5354 | 4.404406063 | 4.4 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 16.60880374 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 16.60880374 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 16.60880374 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 16.60880374 | 1561227.551 | 46.83682654 | 47 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 16.60880374 | 448437.7009 | 13.45313103 | 13 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 16.60880374 | 382002.486 | 11.46007458 | 11 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 16.60880374 | 1511401.14 | 45.3420342 | 45 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 16.60880374 | 1627662.766 | 48.82988299 | 49 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 16.60880374 | 1195833.869 | 35.87501607 | 36 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 16.60880374 | 838744.5887 | 25.16233766 | 25 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 16.60880374 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 16.60880374 | 215914.4486 | 6.477433458 | 6.5 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 16.60880374 | 36539.36822 | 1.096181047 | 1.1 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 16.60880374 | 415220.0934 | 12.4566028 | 12 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 12.45035956 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 12.45035956 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 12.45035956 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 12.45035956 | 1170333.798 | 35.11001395 | 35 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 12.45035956 | 336159.7081 | 10.08479124 | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 12.45035956 | 286358.2698 | 8.590748095 | 8.6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.45035956 | 1132982.72 | 33.98948159 | 34 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 12.45035956 | 1220135.237 | 36.6040571 | 37 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 12.45035956 | 896425.8882 | 26.89277664 | 27 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 12.45035956 | 628743.1577 | 18.86229473 | 19 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 12.45035956 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12.45035956 | 161854.6743 | 4.855640228 | 4.9 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 12.45035956 | 27390.79103 | 0.821723731 | 0.82 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 12.45035956 | 311258.9889 | 9.337769668 | 9.3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 16.36909029 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 16.36909029 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 16.36909029 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 16.36909029 | 1538694.488 | 46.16083463 | 46 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 16.36909029 | 441965.4379 | 13.25896314 | 13 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 16.36909029 | 376489.0768 | 11.2946723 | 11 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 16.36909029 | 1489587.217 | 44.6876165 | 45 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 16.36909029 | 1604170.849 | 48.12512546 | 48 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 16.36909029 | 1178574.501 | 35.35723503 | 35 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 16.36909029 | 826639.0598 | 24.7991718 | 25 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 16.36909029 | | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 16.36909029 | 212798.1738 | 6.383945215 | 6.4 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 16.36909029 | 36011.99865 | 1.080359959 | 1.1 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 16.36909029 | 409227.2573 | 12.27681772 | 12 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 310000 | 1 | 310000 | NA |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 280000 | 1 | 280000 | NA |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 200000 | 1 | 200000 | NA |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 63000 | 1 | 63000 | NA |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 420000 | 1 | 420000 | NA |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | NA |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 16000 | 1 | 16000 | 0.1 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | NA |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 17000 | 1 | 17000 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 28000 | 1 | 28000 | 0.1 | NA | 0 | 0 | 0 | 240000 | 1 | 240000 | NA |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 20000 | 1 | 20000 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 52000 | 1 | 52000 | NA |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 7700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | NA |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | NA |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 54000 | 1 | 54000 | NA |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 50000 | 1 | 50000 | NA |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 360000 | 1 | 360000 | NA |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | NA |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 48000 | 1 | 48000 | NA |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 250000 | 1 | 250000 | NA |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 370000 | 1 | 370000 | NA |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | NA |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 260000 | 1 | 260000 | NA |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 62000 | 1 | 62000 | NA |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 78000 | 1 | 78000 | NA |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 300000 | 1 | 300000 | NA |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | NA |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 270000 | 1 | 270000 | NA |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 330000 | 1 | 330000 | NA |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 290000 | 1 | 290000 | NA |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | NA |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | NA |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | NA |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | NA |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | NA |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 64000 | 1 | 64000 | NA |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 200000 | 1 | 200000 | NA |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 92000 | 1 | 92000 | NA |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 120000 | 1 | 120000 | NA |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | NA |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 68000 | 1 | 68000 | NA |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | NA |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 90000 | 1 | 90000 | NA |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 84000 | 1 | 84000 | NA |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 240000 | 1 | 240000 | NA |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 220000 | 1 | 220000 | NA |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | NA |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 300000 | 1 | 300000 | NA |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 310000 | 1 | 310000 | NA |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 320000 | 1 | 320000 | NA |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 80000 | 1 | 80000 | NA |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 20000 | 1 | 20000 | NA |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | NA |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 15000 | 1 | 15000 | NA |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | NA |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 2700 | 1 | 2700 | 0.1 | NA | 0 | 0 | 0 | 42000 | 1 | 42000 | NA |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5200 | 1 | 5200 | NA |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 60000 | 1 | 60000 | NA |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 85000 | 1 | 85000 | NA |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | NA |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 2000 | 1 | 2000 | 0.1 | NA | 0 | 0 | 0 | 18000 | 1 | 18000 | NA |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 2500 | 1 | 2500 | 0.1 | NA | 0 | 0 | 0 | 30000 | 1 | 30000 | NA |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3900 | 1 | 3900 | NA |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 44000 | 1 | 44000 | 0.1 | NA | 0 | 0 | 0 | 370000 | 1 | 370000 | NA |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | NA |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 1 | 3200 | NA |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | NA |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 8500 | 1 | 8500 | NA |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 40000 | 1 | 40000 | 0.1 | NA | 0 | 0 | 0 | 275000 | 1 | 275000 | NA |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 9300 | 1 | 9300 | 0.1 | NA | 0 | 0 | 0 | 87000 | 1 | 87000 | NA |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 10000 | 1 | 10000 | NA |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 3100 | 1 | 3100 | 0.1 | NA | 0 | 0 | 0 | 26500 | 1 | 26500 | NA |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 75000 | 1 | 75000 | NA |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 360000 | 1 | 360000 | NA |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | NA |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | NA |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 43000 | 1 | 43000 | NA |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 350000 | 1 | 350000 | NA |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 31000 | 1 | 31000 | NA |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 93000 | 1 | 93000 | NA |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 300000 | 1 | 300000 | NA |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 310000 | 1 | 310000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 280000 | 1 | 280000 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 200000 | 1 | 200000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 63000 | 1 | 63000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 420000 | 1 | 420000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 16000 | 1 | 16000 | 0.1 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 17000 | 1 | 17000 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 28000 | 1 | 28000 | 0.1 | NA | 0 | 0 | 0 | 240000 | 1 | 240000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 20000 | 1 | 20000 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 52000 | 1 | 52000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 7700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 54000 | 1 | 54000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 50000 | 1 | 50000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 360000 | 1 | 360000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 48000 | 1 | 48000 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 250000 | 1 | 250000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 370000 | 1 | 370000 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 260000 | 1 | 260000 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 62000 | 1 | 62000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 78000 | 1 | 78000 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 300000 | 1 | 300000 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 270000 | 1 | 270000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 330000 | 1 | 330000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 290000 | 1 | 290000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 64000 | 1 | 64000 | NA |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 200000 | 1 | 200000 | NA |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 92000 | 1 | 92000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 120000 | 1 | 120000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 68000 | 1 | 68000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 90000 | 1 | 90000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 84000 | 1 | 84000 | NA |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 240000 | 1 | 240000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 220000 | 1 | 220000 | NA |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 300000 | 1 | 300000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 310000 | 1 | 310000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 320000 | 1 | 320000 | NA |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 80000 | 1 | 80000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 20000 | 1 | 20000 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 15000 | 1 | 15000 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 2700 | 1 | 2700 | 0.1 | NA | 0 | 0 | 0 | 42000 | 1 | 42000 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5200 | 1 | 5200 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 60000 | 1 | 60000 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 85000 | 1 | 85000 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 2000 | 1 | 2000 | 0.1 | NA | 0 | 0 | 0 | 18000 | 1 | 18000 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 2500 | 1 | 2500 | 0.1 | NA | 0 | 0 | 0 | 30000 | 1 | 30000 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3900 | 1 | 3900 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 44000 | 1 | 44000 | 0.1 | NA | 0 | 0 | 0 | 370000 | 1 | 370000 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 1 | 3200 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 8500 | 1 | 8500 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 40000 | 1 | 40000 | 0.1 | NA | 0 | 0 | 0 | 275000 | 1 | 275000 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 9300 | 1 | 9300 | 0.1 | NA | 0 | 0 | 0 | 87000 | 1 | 87000 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 10000 | 1 | 10000 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 3100 | 1 | 3100 | 0.1 | NA | 0 | 0 | 0 | 26500 | 1 | 26500 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 75000 | 1 | 75000 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 360000 | 1 | 360000 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | NA |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 43000 | 1 | 43000 | NA |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 350000 | 1 | 350000 | NA |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 31000 | 1 | 31000 | NA |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 93000 | 1 | 93000 | NA |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 300000 | 1 | 300000 | NA |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 310000 | 1 | 310000 | NA |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 88000 | 1 | 88000 | NA |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 280000 | 1 | 280000 | NA |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 200000 | 1 | 200000 | NA |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 180000 | 1 | 180000 | NA |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 63000 | 1 | 63000 | NA |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 420000 | 1 | 420000 | NA |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 150000 | 1 | 150000 | NA |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 16000 | 1 | 16000 | 0.1 | 0.03102406 | 496.3849624 | 49.63849624 | 50 | 150000 | 1 | 150000 | NA |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 17000 | 1 | 17000 | 0.1 | 0.03102406 | 527.4090226 | 52.74090226 | 53 | 160000 | 1 | 160000 | NA |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 28000 | 1 | 28000 | 0.1 | 0.03102406 | 868.6736842 | 86.86736842 | 87 | 240000 | 1 | 240000 | NA |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 20000 | 1 | 20000 | 0.1 | 0.03102406 | 620.481203 | 62.0481203 | 62 | 180000 | 1 | 180000 | NA |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 52000 | 1 | 52000 | NA |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 7700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 170000 | 1 | 170000 | NA |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 72000 | 1 | 72000 | NA |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 54000 | 1 | 54000 | NA |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 50000 | 1 | 50000 | NA |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 360000 | 1 | 360000 | NA |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 91000 | 1 | 91000 | NA |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 48000 | 1 | 48000 | NA |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 250000 | 1 | 250000 | NA |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 370000 | 1 | 370000 | NA |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 210000 | 1 | 210000 | NA |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 260000 | 1 | 260000 | NA |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 62000 | 1 | 62000 | NA |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 78000 | 1 | 78000 | NA |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 300000 | 1 | 300000 | NA |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 71000 | 1 | 71000 | NA |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 270000 | 1 | 270000 | NA |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 330000 | 1 | 330000 | NA |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 290000 | 1 | 290000 | NA |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.1 | 0.03102406 | | | | | | | NA |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 230000 | 1 | 230000 | NA |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 210000 | 1 | 210000 | NA |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 210000 | 1 | 210000 | NA |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 230000 | 1 | 230000 | NA |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 230000 | 1 | 230000 | NA |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 64000 | 1 | 64000 | NA |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 200000 | 1 | 200000 | NA |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 180000 | 1 | 180000 | NA |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 92000 | 1 | 92000 | NA |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 120000 | 1 | 120000 | NA |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 170000 | 1 | 170000 | NA |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 68000 | 1 | 68000 | NA |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 170000 | 1 | 170000 | NA |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 90000 | 1 | 90000 | NA |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 84000 | 1 | 84000 | NA |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 240000 | 1 | 240000 | NA |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 220000 | 1 | 220000 | NA |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 71000 | 1 | 71000 | NA |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 300000 | 1 | 300000 | NA |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 310000 | 1 | 310000 | NA |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 320000 | 1 | 320000 | NA |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 80000 | 1 | 80000 | NA |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 180000 | 1 | 180000 | NA |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 20000 | 1 | 20000 | NA |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 2800 | 0 | 0 | NA |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 15000 | 1 | 15000 | NA |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 3000 | 0 | 0 | NA |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 2700 | 1 | 2700 | 0.1 | 0.03102406 | 83.76496241 | 8.376496241 | 8.4 | 42000 | 1 | 42000 | NA |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 5200 | 1 | 5200 | NA |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 60000 | 1 | 60000 | NA |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 85000 | 1 | 85000 | NA |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 13000 | 1 | 13000 | NA |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.1 | 0.03102406 | | | | | | | NA |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 2000 | 1 | 2000 | 0.1 | 0.03102406 | 62.0481203 | 6.20481203 | 6.2 | 18000 | 1 | 18000 | NA |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 2500 | 1 | 2500 | 0.1 | 0.03102406 | 77.56015038 | 7.756015038 | 7.8 | 30000 | 1 | 30000 | NA |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 3900 | 1 | 3900 | NA |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 44000 | 1 | 44000 | 0.1 | 0.03102406 | 1365.058647 | 136.5058647 | 140 | 370000 | 1 | 370000 | NA |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 2800 | 0 | 0 | NA |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 3200 | 1 | 3200 | NA |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 14000 | 1 | 14000 | NA |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 8500 | 1 | 8500 | NA |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 40000 | 1 | 40000 | 0.1 | 0.03102406 | 1240.962406 | 124.0962406 | 120 | 275000 | 1 | 275000 | NA |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.1 | 0.03102406 | | | | | | | NA |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 9300 | 1 | 9300 | 0.1 | 0.03102406 | 288.5237594 | 28.85237594 | 29 | 87000 | 1 | 87000 | NA |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 10000 | 1 | 10000 | NA |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 3100 | 1 | 3100 | 0.1 | 0.03102406 | 96.17458647 | 9.617458647 | 9.6 | 26500 | 1 | 26500 | NA |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.1 | 0.03102406 | | | | | | | NA |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 75000 | 1 | 75000 | NA |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 360000 | 1 | 360000 | NA |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 44000 | 1 | 44000 | NA |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 44000 | 1 | 44000 | NA |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 43000 | 1 | 43000 | NA |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 350000 | 1 | 350000 | NA |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 31000 | 1 | 31000 | NA |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 93000 | 1 | 93000 | NA |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 300000 | 1 | 300000 | NA |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | NA |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | | | 35000 | 1 | 35000 | 0.00003 | 2.48940678 | 87129.23729 | 2.613877119 | 2.6 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 2.48940678 | 27383.47458 | 0.821504237 | 0.82 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | | | 16000 | 1 | 16000 | 0.00003 | 2.48940678 | 39830.50847 | 1.194915254 | 1.2 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | | | 29000 | 1 | 29000 | 0.00003 | 2.48940678 | 72192.79661 | 2.165783898 | 2.2 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | | | 27000 | 1 | 27000 | 0.00003 | 2.48940678 | 67213.98305 | 2.016419492 | 2 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | | | 21000 | 1 | 21000 | 0.00003 | 2.48940678 | 52277.54237 | 1.568326271 | 1.6 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | | | 26000 | 1 | 26000 | 0.00003 | 2.48940678 | 64724.57627 | 1.941737288 | 1.9 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | | | 5300 | 1 | 5300 | 0.00003 | 2.48940678 | 13193.85593 | 0.395815678 | 0.4 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | | | 48000 | 1 | 48000 | 0.00003 | 2.48940678 | 119491.5254 | 3.584745763 | 3.6 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | | | 18000 | 1 | 18000 | 0.00003 | 2.48940678 | 44809.32203 | 1.344279661 | 1.3 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | 2.48940678 | 37341.10169 | 1.120233051 | 1.1 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | | | 16000 | 1 | 16000 | 0.00003 | 2.48940678 | 39830.50847 | 1.194915254 | 1.2 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | | | 28000 | 1 | 28000 | 0.00003 | 2.48940678 | 69703.38983 | 2.091101695 | 2.1 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | | | 25000 | 1 | 25000 | 0.00003 | 2.48940678 | 62235.16949 | 1.867055085 | 1.9 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | | | 5900 | 1 | 5900 | 0.00003 | 2.48940678 | 14687.5 | 0.440625 | 0.44 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | | | 19000 | 1 | 19000 | 0.00003 | 2.48940678 | 47298.72881 | 1.418961864 | 1.4 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | | | 8900 | 1 | 8900 | 0.00003 | 2.48940678 | 22155.72034 | 0.66467161 | 0.66 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | | | 5800 | 1 | 5800 | 0.00003 | 2.48940678 | 14438.55932 | 0.43315678 | 0.43 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | | | 6300 | 1 | 6300 | 0.00003 | 2.48940678 | 15683.26271 | 0.470497881 | 0.47 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | | | 42000 | 1 | 42000 | 0.00003 | 2.48940678 | 104555.0847 | 3.136652542 | 3.1 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | | | 7800 | 1 | 7800 | 0.00003 | 2.48940678 | 19417.37288 | 0.582521186 | 0.58 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | | | 5000 | 1 | 5000 | 0.00003 | 2.48940678 | 12447.0339 | 0.373411017 | 0.37 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | | | 20000 | 1 | 20000 | 0.00003 | 2.48940678 | 49788.13559 | 1.493644068 | 1.5 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | | | 12000 | 1 | 12000 | 0.00003 | 2.48940678 | 29872.88136 | 0.896186441 | 0.9 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | | | 23000 | 1 | 23000 | 0.00003 | 2.48940678 | 57256.35593 | 1.717690678 | 1.7 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | | | 39000 | 1 | 39000 | 0.00003 | 2.48940678 | 97086.86441 | 2.912605932 | 2.9 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 2.48940678 | 27383.47458 | 0.821504237 | 0.82 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | | | 24000 | 1 | 24000 | 0.00003 | 2.48940678 | 59745.76271 | 1.792372881 | 1.8 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | | | 30000 | 1 | 30000 | 0.00003 | 2.48940678 | 74682.20339 | 2.240466102 | 2.2 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | NA | 0 | | | 6300 | 1 | 6300 | 0.00003 | 2.48940678 | 15683.26271 | 0.470497881 | 0.47 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | | | 8900 | 1 | 8900 | 0.00003 | 2.48940678 | 22155.72034 | 0.66467161 | 0.66 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | | | 33000 | 1 | 33000 | 0.00003 | 2.48940678 | 82150.42373 | 2.464512712 | 2.5 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | | | 6600 | 1 | 6600 | 0.00003 | 2.48940678 | 16430.08475 | 0.492902542 | 0.49 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | | | 30000 | 1 | 30000 | 0.00003 | 2.48940678 | 74682.20339 | 2.240466102 | 2.2 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | | | 14000 | 1 | 14000 | 0.00003 | 2.48940678 | 34851.69492 | 1.045550847 | 1 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | | | 32000 | 1 | 32000 | 0.00003 | 2.48940678 | 79661.01695 | 2.389830508 | 2.4 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | | | 27000 | 1 | 27000 | 0.00003 | 2.48940678 | 67213.98305 | 2.016419492 | 2 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | NA | 0 | | | | | | 0.00003 | 2.48940678 | | | |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | | | 30000 | 1 | 30000 | 0.00003 | 2.48940678 | 74682.20339 | 2.240466102 | 2.2 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | | | 33000 | 1 | 33000 | 0.00003 | 2.48940678 | 82150.42373 | 2.464512712 | 2.5 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | NA | 0 | | | 23000 | 1 | 23000 | 0.00003 | 2.48940678 | 57256.35593 | 1.717690678 | 1.7 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | | | 23000 | 1 | 23000 | 0.00003 | 2.48940678 | 57256.35593 | 1.717690678 | 1.7 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | | | 25000 | 1 | 25000 | 0.00003 | 2.48940678 | 62235.16949 | 1.867055085 | 1.9 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | | | 5200 | 1 | 5200 | 0.00003 | 2.48940678 | 12944.91525 | 0.388347458 | 0.39 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | | | 21000 | 1 | 21000 | 0.00003 | 2.48940678 | 52277.54237 | 1.568326271 | 1.6 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | | | 16000 | 1 | 16000 | 0.00003 | 2.48940678 | 39830.50847 | 1.194915254 | 1.2 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | | | 8200 | 1 | 8200 | 0.00003 | 2.48940678 | 20413.13559 | 0.612394068 | 0.61 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | | | 9500 | 1 | 9500 | 0.00003 | 2.48940678 | 23649.36441 | 0.709480932 | 0.71 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | 2.48940678 | 37341.10169 | 1.120233051 | 1.1 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | | | 18000 | 1 | 18000 | 0.00003 | 2.48940678 | 44809.32203 | 1.344279661 | 1.3 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | | | 16000 | 1 | 16000 | 0.00003 | 2.48940678 | 39830.50847 | 1.194915254 | 1.2 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | | | 6600 | 1 | 6600 | 0.00003 | 2.48940678 | 16430.08475 | 0.492902542 | 0.49 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | | | 22000 | 1 | 22000 | 0.00003 | 2.48940678 | 54766.94915 | 1.643008475 | 1.6 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | | | 12000 | 1 | 12000 | 0.00003 | 2.48940678 | 29872.88136 | 0.896186441 | 0.9 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | | | 10000 | 1 | 10000 | 0.00003 | 2.48940678 | 24894.0678 | 0.746822034 | 0.75 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | | | 23000 | 1 | 23000 | 0.00003 | 2.48940678 | 57256.35593 | 1.717690678 | 1.7 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | | | 28000 | 1 | 28000 | 0.00003 | 2.48940678 | 69703.38983 | 2.091101695 | 2.1 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | 2.48940678 | 37341.10169 | 1.120233051 | 1.1 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | | | 16000 | 1 | 16000 | 0.00003 | 2.48940678 | 39830.50847 | 1.194915254 | 1.2 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | | | 14000 | 1 | 14000 | 0.00003 | 2.48940678 | 34851.69492 | 1.045550847 | 1 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | | | 7900 | 1 | 7900 | 0.00003 | 2.48940678 | 19666.31356 | 0.589989407 | 0.59 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | | | 13000 | 1 | 13000 | 0.00003 | 2.48940678 | 32362.28814 | 0.970868644 | 0.97 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | | | 40000 | 1 | 40000 | 0.00003 | 2.48940678 | 99576.27119 | 2.987288136 | 3 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | | | 30000 | 1 | 30000 | 0.00003 | 2.48940678 | 74682.20339 | 2.240466102 | 2.2 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | | | 14000 | 1 | 14000 | 0.00003 | 2.48940678 | 34851.69492 | 1.045550847 | 1 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | | | 34000 | 1 | 34000 | 0.00003 | 2.48940678 | 84639.83051 | 2.539194915 | 2.5 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | | | 8700 | 1 | 8700 | 0.00003 | 2.48940678 | 21657.83898 | 0.649735169 | 0.65 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | | | 16000 | 1 | 16000 | 0.00003 | 2.48940678 | 39830.50847 | 1.194915254 | 1.2 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | | | 17000 | 1 | 17000 | 0.00003 | 2.48940678 | 42319.91525 | 1.269597458 | 1.3 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | | | 2300 | 1 | 2300 | 0.00003 | 2.48940678 | 5725.635593 | 0.171769068 | 0.17 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | | | 1400 | 0 | 0 | 0.00003 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | | | 1500 | 0 | 0 | 0.00003 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | | | 1500 | 0 | 0 | 0.00003 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | | | 4400 | 1 | 4400 | 0.00003 | 2.48940678 | 10953.38983 | 0.328601695 | 0.33 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | | | 1700 | 0 | 0 | 0.00003 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | | | 6900 | 1 | 6900 | 0.00003 | 2.48940678 | 17176.90678 | 0.515307203 | 0.52 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | | | 8800 | 1 | 8800 | 0.00003 | 2.48940678 | 21906.77966 | 0.65720339 | 0.66 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | | | 1700 | 0 | 0 | 0.00003 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | NA | 0 | | | | | | 0.00003 | 2.48940678 | | | |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | | | 1900 | 1 | 1900 | 0.00003 | 2.48940678 | 4729.872881 | 0.141896186 | 0.14 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | | | 2700 | 1 | 2700 | 0.00003 | 2.48940678 | 6721.398305 | 0.201641949 | 0.2 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | | | 1500 | 0 | 0 | 0.00003 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | | | 42000 | 1 | 42000 | 0.00003 | 2.48940678 | 104555.0847 | 3.136652542 | 3.1 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | | | 1400 | 0 | 0 | 0.00003 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | | | 1500 | 0 | 0 | 0.00003 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | 2.48940678 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | | | 30000 | 1 | 30000 | 0.00003 | 2.48940678 | 74682.20339 | 2.240466102 | 2.2 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | NA | 0 | | | | | | 0.00003 | 2.48940678 | | | |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | | | 7900 | 1 | 7900 | 0.00003 | 2.48940678 | 19666.31356 | 0.589989407 | 0.59 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | | | 2800 | 1 | 2800 | 0.00003 | 2.48940678 | 6970.338983 | 0.209110169 | 0.21 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | NA | 0 | | | | | | 0.00003 | 2.48940678 | | | |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | | | 7000 | 1 | 7000 | 0.00003 | 2.48940678 | 17425.84746 | 0.522775424 | 0.52 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | | | 34000 | 1 | 34000 | 0.00003 | 2.48940678 | 84639.83051 | 2.539194915 | 2.5 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | | | 12000 | 1 | 12000 | 0.00003 | 2.48940678 | 29872.88136 | 0.896186441 | 0.9 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | | | 5600 | 1 | 5600 | 0.00003 | 2.48940678 | 13940.67797 | 0.418220339 | 0.42 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | | | 4700 | 1 | 4700 | 0.00003 | 2.48940678 | 11700.21186 | 0.351006356 | 0.35 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | | | 4300 | 1 | 4300 | 0.00003 | 2.48940678 | 10704.44915 | 0.321133475 | 0.32 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | | | 35000 | 1 | 35000 | 0.00003 | 2.48940678 | 87129.23729 | 2.613877119 | 2.6 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | | | 2300 | 1 | 2300 | 0.00003 | 2.48940678 | 5725.635593 | 0.171769068 | 0.17 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | | | 9400 | 1 | 9400 | 0.00003 | 2.48940678 | 23400.42373 | 0.702012712 | 0.7 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 2.48940678 | 27383.47458 | 0.821504237 | 0.82 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | | | 17000 | 1 | 17000 | 0.00003 | 2.48940678 | 42319.91525 | 1.269597458 | 1.3 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | | | 34000 | 1 | 34000 | 0.00003 | 2.48940678 | 84639.83051 | 2.539194915 | 2.5 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | | | 16000 | 1 | 16000 | 0.00003 | 2.48940678 | 39830.50847 | 1.194915254 | 1.2 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | | | 35000 | 1 | 35000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | | | 16000 | 1 | 16000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | | | 29000 | 1 | 29000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | | | 27000 | 1 | 27000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | | | 21000 | 1 | 21000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | | | 26000 | 1 | 26000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | | | 5300 | 1 | 5300 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | | | 48000 | 1 | 48000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | | | 18000 | 1 | 18000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | | | 16000 | 1 | 16000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | | | 28000 | 1 | 28000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | | | 25000 | 1 | 25000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | | | 5900 | 1 | 5900 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | | | 19000 | 1 | 19000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | | | 8900 | 1 | 8900 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | | | 5800 | 1 | 5800 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | | | 6300 | 1 | 6300 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | | | 42000 | 1 | 42000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | | | 7800 | 1 | 7800 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | | | 5000 | 1 | 5000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | | | 20000 | 1 | 20000 | 0.00003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | | | 12000 | 1 | 12000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | | | 23000 | 1 | 23000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | | | 39000 | 1 | 39000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | | | 24000 | 1 | 24000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | | | 30000 | 1 | 30000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | NA | 0 | | | 6300 | 1 | 6300 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | | | 8900 | 1 | 8900 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | | | 33000 | 1 | 33000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | | | 6600 | 1 | 6600 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | | | 30000 | 1 | 30000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | | | 14000 | 1 | 14000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | | | 32000 | 1 | 32000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | | | 27000 | 1 | 27000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | NA | 0 | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | | | 30000 | 1 | 30000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | | | 33000 | 1 | 33000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | NA | 0 | | | 23000 | 1 | 23000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | | | 23000 | 1 | 23000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | | | 25000 | 1 | 25000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | | | 5200 | 1 | 5200 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | | | 21000 | 1 | 21000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | | | 16000 | 1 | 16000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | | | 8200 | 1 | 8200 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | | | 9500 | 1 | 9500 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | | | 18000 | 1 | 18000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | | | 16000 | 1 | 16000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | | | 6600 | 1 | 6600 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | | | 22000 | 1 | 22000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | | | 12000 | 1 | 12000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | | | 10000 | 1 | 10000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | | | 23000 | 1 | 23000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | | | 28000 | 1 | 28000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | | | 16000 | 1 | 16000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | | | 14000 | 1 | 14000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | | | 7900 | 1 | 7900 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | | | 13000 | 1 | 13000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | | | 40000 | 1 | 40000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | | | 30000 | 1 | 30000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | | | 14000 | 1 | 14000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | | | 34000 | 1 | 34000 | 0.00003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | | | 8700 | 1 | 8700 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | | | 16000 | 1 | 16000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | | | 17000 | 1 | 17000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | | | 2300 | 1 | 2300 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | | | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | | | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | | | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | | | 4400 | 1 | 4400 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | | | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | | | 6900 | 1 | 6900 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | | | 8800 | 1 | 8800 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | | | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | NA | 0 | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | | | 1900 | 1 | 1900 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | | | 2700 | 1 | 2700 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | | | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | | | 42000 | 1 | 42000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | | | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | | | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | | | 30000 | 1 | 30000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | NA | 0 | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | | | 7900 | 1 | 7900 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | | | 2800 | 1 | 2800 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | NA | 0 | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | | | 7000 | 1 | 7000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | | | 34000 | 1 | 34000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | | | 12000 | 1 | 12000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | | | 5600 | 1 | 5600 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | | | 4700 | 1 | 4700 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | | | 4300 | 1 | 4300 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | | | 35000 | 1 | 35000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | | | 2300 | 1 | 2300 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | | | 9400 | 1 | 9400 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | | | 17000 | 1 | 17000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | | | 34000 | 1 | 34000 | 0.00003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | | | 16000 | 1 | 16000 | 0.00003 | NA | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.03102406 | 9617.458647 | | | 35000 | 1 | 35000 | 0.00003 | 0.03102406 | 1085.842105 | 0.032575263 | 0.033 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.03102406 | 2730.117293 | | | 11000 | 1 | 11000 | 0.00003 | 0.03102406 | 341.2646617 | 0.01023794 | 0.01 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.03102406 | 3412.646617 | | | 16000 | 1 | 16000 | 0.00003 | 0.03102406 | 496.3849624 | 0.014891549 | 0.015 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.03102406 | 8686.736842 | | | 29000 | 1 | 29000 | 0.00003 | 0.03102406 | 899.6977444 | 0.026990932 | 0.027 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.03102406 | 6204.81203 | | | 27000 | 1 | 27000 | 0.00003 | 0.03102406 | 837.6496241 | 0.025129489 | 0.025 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.03102406 | 4963.849624 | | | 21000 | 1 | 21000 | 0.00003 | 0.03102406 | 651.5052632 | 0.019545158 | 0.02 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.03102406 | 5584.330827 | | | 26000 | 1 | 26000 | 0.00003 | 0.03102406 | 806.6255639 | 0.024198767 | 0.024 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.03102406 | 1954.515789 | | | 5300 | 1 | 5300 | 0.00003 | 0.03102406 | 164.4275188 | 0.004932826 | 0.0049 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.03102406 | 13030.10526 | | | 48000 | 1 | 48000 | 0.00003 | 0.03102406 | 1489.154887 | 0.044674647 | 0.045 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.03102406 | 4653.609023 | | | 18000 | 1 | 18000 | 0.00003 | 0.03102406 | 558.4330827 | 0.016752992 | 0.017 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.03102406 | 4653.609023 | | | 15000 | 1 | 15000 | 0.00003 | 0.03102406 | 465.3609023 | 0.013960827 | 0.014 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.03102406 | 4963.849624 | | | 16000 | 1 | 16000 | 0.00003 | 0.03102406 | 496.3849624 | 0.014891549 | 0.015 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.03102406 | 7445.774436 | | | 28000 | 1 | 28000 | 0.00003 | 0.03102406 | 868.6736842 | 0.026060211 | 0.026 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.03102406 | 5584.330827 | | | 25000 | 1 | 25000 | 0.00003 | 0.03102406 | 775.6015038 | 0.023268045 | 0.023 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.03102406 | 1613.251128 | | | 5900 | 1 | 5900 | 0.00003 | 0.03102406 | 183.0419549 | 0.005491259 | 0.0055 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.03102406 | 5274.090226 | | | 19000 | 1 | 19000 | 0.00003 | 0.03102406 | 589.4571429 | 0.017683714 | 0.018 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.03102406 | 2233.732331 | | | 8900 | 1 | 8900 | 0.00003 | 0.03102406 | 276.1141353 | 0.008283424 | 0.0083 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.03102406 | 1675.299248 | | | 5800 | 1 | 5800 | 0.00003 | 0.03102406 | 179.9395489 | 0.005398186 | 0.0054 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.03102406 | 1551.203008 | | | 6300 | 1 | 6300 | 0.00003 | 0.03102406 | 195.4515789 | 0.005863547 | 0.0059 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.03102406 | 11168.66165 | | | 42000 | 1 | 42000 | 0.00003 | 0.03102406 | 1303.010526 | 0.039090316 | 0.039 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.03102406 | 2823.189474 | | | 7800 | 1 | 7800 | 0.00003 | 0.03102406 | 241.9876692 | 0.00725963 | 0.0073 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.03102406 | 1489.154887 | | | 5000 | 1 | 5000 | 0.00003 | 0.03102406 | 155.1203008 | 0.004653609 | 0.0047 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.03102406 | 4963.849624 | | | 20000 | 1 | 20000 | 0.00003 | 0.03102406 | 620.481203 | 0.018614436 | 0.019 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.03102406 | 3412.646617 | | | 12000 | 1 | 12000 | 0.00003 | 0.03102406 | 372.2887218 | 0.011168662 | 0.011 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.03102406 | 7756.015038 | | | 23000 | 1 | 23000 | 0.00003 | 0.03102406 | 713.5533835 | 0.021406602 | 0.021 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.03102406 | 11478.90226 | | | 39000 | 1 | 39000 | 0.00003 | 0.03102406 | 1209.938346 | 0.03629815 | 0.036 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.03102406 | 3412.646617 | | | 11000 | 1 | 11000 | 0.00003 | 0.03102406 | 341.2646617 | 0.01023794 | 0.01 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.03102406 | 6515.052632 | | | 24000 | 1 | 24000 | 0.00003 | 0.03102406 | 744.5774436 | 0.022337323 | 0.022 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.03102406 | 8066.255639 | | | 30000 | 1 | 30000 | 0.00003 | 0.03102406 | 930.7218045 | 0.027921654 | 0.028 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.03102406 | 1923.491729 | | | 6300 | 1 | 6300 | 0.00003 | 0.03102406 | 195.4515789 | 0.005863547 | 0.0059 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.03102406 | 2419.876692 | | | 8900 | 1 | 8900 | 0.00003 | 0.03102406 | 276.1141353 | 0.008283424 | 0.0083 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.03102406 | 9307.218045 | | | 33000 | 1 | 33000 | 0.00003 | 0.03102406 | 1023.793985 | 0.03071382 | 0.031 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.03102406 | 2202.708271 | | | 6600 | 1 | 6600 | 0.00003 | 0.03102406 | 204.758797 | 0.006142764 | 0.0061 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.03102406 | 8376.496241 | | | 30000 | 1 | 30000 | 0.00003 | 0.03102406 | 930.7218045 | 0.027921654 | 0.028 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.03102406 | 4343.368421 | | | 14000 | 1 | 14000 | 0.00003 | 0.03102406 | 434.3368421 | 0.013030105 | 0.013 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.03102406 | 10237.93985 | | | 32000 | 1 | 32000 | 0.00003 | 0.03102406 | 992.7699248 | 0.029783098 | 0.03 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.03102406 | 8996.977444 | | | 27000 | 1 | 27000 | 0.00003 | 0.03102406 | 837.6496241 | 0.025129489 | 0.025 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.03102406 | | | | | | | 0.00003 | 0.03102406 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.03102406 | 7135.533835 | | | 30000 | 1 | 30000 | 0.00003 | 0.03102406 | 930.7218045 | 0.027921654 | 0.028 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.03102406 | 6515.052632 | | | 33000 | 1 | 33000 | 0.00003 | 0.03102406 | 1023.793985 | 0.03071382 | 0.031 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.03102406 | 6515.052632 | | | 23000 | 1 | 23000 | 0.00003 | 0.03102406 | 713.5533835 | 0.021406602 | 0.021 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.03102406 | 7135.533835 | | | 23000 | 1 | 23000 | 0.00003 | 0.03102406 | 713.5533835 | 0.021406602 | 0.021 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.03102406 | 7135.533835 | | | 25000 | 1 | 25000 | 0.00003 | 0.03102406 | 775.6015038 | 0.023268045 | 0.023 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.03102406 | 1985.53985 | | | 5200 | 1 | 5200 | 0.00003 | 0.03102406 | 161.3251128 | 0.004839753 | 0.0048 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.03102406 | 6204.81203 | | | 21000 | 1 | 21000 | 0.00003 | 0.03102406 | 651.5052632 | 0.019545158 | 0.02 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.03102406 | 5584.330827 | | | 16000 | 1 | 16000 | 0.00003 | 0.03102406 | 496.3849624 | 0.014891549 | 0.015 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.03102406 | 2854.213534 | | | 8200 | 1 | 8200 | 0.00003 | 0.03102406 | 254.3972932 | 0.007631919 | 0.0076 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.03102406 | 3722.887218 | | | 9500 | 1 | 9500 | 0.00003 | 0.03102406 | 294.7285714 | 0.008841857 | 0.0088 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.03102406 | 4343.368421 | | | 15000 | 1 | 15000 | 0.00003 | 0.03102406 | 465.3609023 | 0.013960827 | 0.014 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.03102406 | 5274.090226 | | | 18000 | 1 | 18000 | 0.00003 | 0.03102406 | 558.4330827 | 0.016752992 | 0.017 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.03102406 | 4963.849624 | | | 16000 | 1 | 16000 | 0.00003 | 0.03102406 | 496.3849624 | 0.014891549 | 0.015 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.03102406 | 2109.63609 | | | 6600 | 1 | 6600 | 0.00003 | 0.03102406 | 204.758797 | 0.006142764 | 0.0061 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.03102406 | 5274.090226 | | | 22000 | 1 | 22000 | 0.00003 | 0.03102406 | 682.5293233 | 0.02047588 | 0.02 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.03102406 | 2792.165414 | | | 12000 | 1 | 12000 | 0.00003 | 0.03102406 | 372.2887218 | 0.011168662 | 0.011 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.03102406 | 2606.021053 | | | 10000 | 1 | 10000 | 0.00003 | 0.03102406 | 310.2406015 | 0.009307218 | 0.0093 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.03102406 | 7445.774436 | | | 23000 | 1 | 23000 | 0.00003 | 0.03102406 | 713.5533835 | 0.021406602 | 0.021 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.03102406 | 6825.293233 | | | 28000 | 1 | 28000 | 0.00003 | 0.03102406 | 868.6736842 | 0.026060211 | 0.026 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.03102406 | 4033.12782 | | | 15000 | 1 | 15000 | 0.00003 | 0.03102406 | 465.3609023 | 0.013960827 | 0.014 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.03102406 | 4033.12782 | | | 16000 | 1 | 16000 | 0.00003 | 0.03102406 | 496.3849624 | 0.014891549 | 0.015 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.03102406 | 3412.646617 | | | 14000 | 1 | 14000 | 0.00003 | 0.03102406 | 434.3368421 | 0.013030105 | 0.013 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.03102406 | 2202.708271 | | | 7900 | 1 | 7900 | 0.00003 | 0.03102406 | 245.0900752 | 0.007352702 | 0.0074 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.03102406 | 4963.849624 | | | 13000 | 1 | 13000 | 0.00003 | 0.03102406 | 403.312782 | 0.012099383 | 0.012 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.03102406 | 9307.218045 | | | 40000 | 1 | 40000 | 0.00003 | 0.03102406 | 1240.962406 | 0.037228872 | 0.037 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.03102406 | 9617.458647 | | | 30000 | 1 | 30000 | 0.00003 | 0.03102406 | 930.7218045 | 0.027921654 | 0.028 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.03102406 | 4033.12782 | | | 14000 | 1 | 14000 | 0.00003 | 0.03102406 | 434.3368421 | 0.013030105 | 0.013 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.03102406 | 9927.699248 | | | 34000 | 1 | 34000 | 0.00003 | 0.03102406 | 1054.818045 | 0.031644541 | 0.032 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.03102406 | 2481.924812 | | | 8700 | 1 | 8700 | 0.00003 | 0.03102406 | 269.9093233 | 0.00809728 | 0.0081 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.03102406 | 4963.849624 | | | 16000 | 1 | 16000 | 0.00003 | 0.03102406 | 496.3849624 | 0.014891549 | 0.015 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.03102406 | 5584.330827 | | | 17000 | 1 | 17000 | 0.00003 | 0.03102406 | 527.4090226 | 0.015822271 | 0.016 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.03102406 | 620.481203 | | | 2300 | 1 | 2300 | 0.00003 | 0.03102406 | 71.35533835 | 0.00214066 | 0.0021 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.03102406 | 0 | | | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.03102406 | 465.3609023 | | | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.03102406 | 0 | | | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.03102406 | 1303.010526 | | | 4400 | 1 | 4400 | 0.00003 | 0.03102406 | 136.5058647 | 0.004095176 | 0.0041 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.03102406 | 161.3251128 | | | 1700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.03102406 | 1861.443609 | | | 6900 | 1 | 6900 | 0.00003 | 0.03102406 | 214.066015 | 0.00642198 | 0.0064 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.03102406 | 2637.045113 | | | 8800 | 1 | 8800 | 0.00003 | 0.03102406 | 273.0117293 | 0.008190352 | 0.0082 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.03102406 | 403.312782 | | | 1700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.03102406 | | | | | | | 0.00003 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.03102406 | 558.4330827 | | | 1900 | 1 | 1900 | 0.00003 | 0.03102406 | 58.94571429 | 0.001768371 | 0.0018 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.03102406 | 930.7218045 | | | 2700 | 1 | 2700 | 0.00003 | 0.03102406 | 83.76496241 | 0.002512949 | 0.0025 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.03102406 | 120.9938346 | | | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.03102406 | 11478.90226 | | | 42000 | 1 | 42000 | 0.00003 | 0.03102406 | 1303.010526 | 0.039090316 | 0.039 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.03102406 | 0 | | | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.03102406 | 99.27699248 | | | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.03102406 | 434.3368421 | | | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.03102406 | 263.7045113 | | | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.03102406 | 8531.616541 | | | 30000 | 1 | 30000 | 0.00003 | 0.03102406 | 930.7218045 | 0.027921654 | 0.028 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.03102406 | | | | | | | 0.00003 | 0.03102406 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.03102406 | 2699.093233 | | | 7900 | 1 | 7900 | 0.00003 | 0.03102406 | 245.0900752 | 0.007352702 | 0.0074 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.03102406 | 310.2406015 | | | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.03102406 | 822.137594 | | | 2800 | 1 | 2800 | 0.00003 | 0.03102406 | 86.86736842 | 0.002606021 | 0.0026 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.03102406 | | | | | | | 0.00003 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.03102406 | 2326.804511 | | | 7000 | 1 | 7000 | 0.00003 | 0.03102406 | 217.1684211 | 0.006515053 | 0.0065 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.03102406 | 11168.66165 | | | 34000 | 1 | 34000 | 0.00003 | 0.03102406 | 1054.818045 | 0.031644541 | 0.032 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.03102406 | 4033.12782 | | | 12000 | 1 | 12000 | 0.00003 | 0.03102406 | 372.2887218 | 0.011168662 | 0.011 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.03102406 | 1365.058647 | | | 5600 | 1 | 5600 | 0.00003 | 0.03102406 | 173.7347368 | 0.005212042 | 0.0052 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.03102406 | 1365.058647 | | | 4700 | 1 | 4700 | 0.00003 | 0.03102406 | 145.8130827 | 0.004374392 | 0.0044 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.03102406 | 1334.034586 | | | 4300 | 1 | 4300 | 0.00003 | 0.03102406 | 133.4034586 | 0.004002104 | 0.004 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.03102406 | 10858.42105 | | | 35000 | 1 | 35000 | 0.00003 | 0.03102406 | 1085.842105 | 0.032575263 | 0.033 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.03102406 | 961.7458647 | | | 2300 | 1 | 2300 | 0.00003 | 0.03102406 | 71.35533835 | 0.00214066 | 0.0021 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.03102406 | 2885.237594 | | | 9400 | 1 | 9400 | 0.00003 | 0.03102406 | 291.6261654 | 0.008748785 | 0.0087 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.03102406 | 3412.646617 | | | 11000 | 1 | 11000 | 0.00003 | 0.03102406 | 341.2646617 | 0.01023794 | 0.01 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.03102406 | 4033.12782 | | | 17000 | 1 | 17000 | 0.00003 | 0.03102406 | 527.4090226 | 0.015822271 | 0.016 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.03102406 | 9307.218045 | | | 34000 | 1 | 34000 | 0.00003 | 0.03102406 | 1054.818045 | 0.031644541 | 0.032 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.03102406 | 4963.849624 | | | 16000 | 1 | 16000 | 0.00003 | 0.03102406 | 496.3849624 | 0.014891549 | 0.015 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | | | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | | | 3600 | 1 | 3600 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | | | 5400 | 1 | 5400 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | | | 17000 | 1 | 17000 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | | | 8800 | 1 | 8800 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | | | | | | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | | | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | | | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | | | 3500 | 1 | 3500 | 0.00003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | 2.831984527 | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | | | | | | 0.00003 | 2.831984527 | | | |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | | | 2100 | 0 | 0 | 0.00003 | 2.831984527 | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | 2.831984527 | 42479.7679 | 1.274393037 | 1.3 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | | | 3600 | 1 | 3600 | 0.00003 | 2.831984527 | 10195.1443 | 0.305854329 | 0.31 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | | | 5400 | 1 | 5400 | 0.00003 | 2.831984527 | 15292.71645 | 0.458781493 | 0.46 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 2.831984527 | 31151.8298 | 0.934554894 | 0.93 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | | | 17000 | 1 | 17000 | 0.00003 | 2.831984527 | 48143.73696 | 1.444312109 | 1.4 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 2.831984527 | 31151.8298 | 0.934554894 | 0.93 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | | | 8800 | 1 | 8800 | 0.00003 | 2.831984527 | 24921.46384 | 0.747643915 | 0.75 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | | | | | | 0.00003 | 2.831984527 | | | |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | | | 5800 | 0 | 0 | 0.00003 | 2.831984527 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | | | 1800 | 0 | 0 | 0.00003 | 2.831984527 | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | | | 3500 | 1 | 3500 | 0.00003 | 2.831984527 | 9911.945844 | 0.297358375 | 0.3 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | 0.647665854 | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | | | | | | 0.00003 | 0.647665854 | | | |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | | | 2100 | 0 | 0 | 0.00003 | 0.647665854 | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | 0.647665854 | 9714.987817 | 0.291449635 | 0.29 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | | | 3600 | 1 | 3600 | 0.00003 | 0.647665854 | 2331.597076 | 0.069947912 | 0.07 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | | | 5400 | 1 | 5400 | 0.00003 | 0.647665854 | 3497.395614 | 0.104921868 | 0.1 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 0.647665854 | 7124.324399 | 0.213729732 | 0.21 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | | | 17000 | 1 | 17000 | 0.00003 | 0.647665854 | 11010.31953 | 0.330309586 | 0.33 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 0.647665854 | 7124.324399 | 0.213729732 | 0.21 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | | | 8800 | 1 | 8800 | 0.00003 | 0.647665854 | 5699.459519 | 0.170983786 | 0.17 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | | | | | | 0.00003 | 0.647665854 | | | |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | | | 5800 | 0 | 0 | 0.00003 | 0.647665854 | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | | | 1800 | 0 | 0 | 0.00003 | 0.647665854 | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | | | 3500 | 1 | 3500 | 0.00003 | 0.647665854 | 2266.830491 | 0.068004915 | 0.068 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | 17.59959744 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | | | | | | 0.00003 | 17.59959744 | | | |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | | | 2100 | 0 | 0 | 0.00003 | 17.59959744 | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | 17.59959744 | 263993.9616 | 7.919818847 | 7.9 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | | | 3600 | 1 | 3600 | 0.00003 | 17.59959744 | 63358.55077 | 1.900756523 | 1.9 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | | | 5400 | 1 | 5400 | 0.00003 | 17.59959744 | 95037.82616 | 2.851134785 | 2.9 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 17.59959744 | 193595.5718 | 5.807867154 | 5.8 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | | | 17000 | 1 | 17000 | 0.00003 | 17.59959744 | 299193.1564 | 8.975794693 | 9 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 17.59959744 | 193595.5718 | 5.807867154 | 5.8 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | | | 8800 | 1 | 8800 | 0.00003 | 17.59959744 | 154876.4574 | 4.646293723 | 4.6 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | | | | | | 0.00003 | 17.59959744 | | | |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | | | 5800 | 0 | 0 | 0.00003 | 17.59959744 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | | | 1800 | 0 | 0 | 0.00003 | 17.59959744 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | | | 3500 | 1 | 3500 | 0.00003 | 17.59959744 | 61598.59103 | 1.847957731 | 1.8 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | 15.36036613 | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | | | | | | 0.00003 | 15.36036613 | | | |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | | | 2100 | 0 | 0 | 0.00003 | 15.36036613 | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | 15.36036613 | 230405.492 | 6.912164759 | 6.9 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | | | 3600 | 1 | 3600 | 0.00003 | 15.36036613 | 55297.31808 | 1.658919542 | 1.7 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | | | 5400 | 1 | 5400 | 0.00003 | 15.36036613 | 82945.97711 | 2.488379313 | 2.5 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 15.36036613 | 168964.0275 | 5.068920824 | 5.1 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | | | 17000 | 1 | 17000 | 0.00003 | 15.36036613 | 261126.2242 | 7.833786727 | 7.8 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 15.36036613 | 168964.0275 | 5.068920824 | 5.1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | | | 8800 | 1 | 8800 | 0.00003 | 15.36036613 | 135171.222 | 4.055136659 | 4.1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | | | | | | 0.00003 | 15.36036613 | | | |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | | | 5800 | 0 | 0 | 0.00003 | 15.36036613 | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | | | 1800 | 0 | 0 | 0.00003 | 15.36036613 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | | | 3500 | 1 | 3500 | 0.00003 | 15.36036613 | 53761.28146 | 1.612838444 | 1.6 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | 13.60544218 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | | | | | | 0.00003 | 13.60544218 | | | |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | | | 2100 | 0 | 0 | 0.00003 | 13.60544218 | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | 13.60544218 | 204081.6327 | 6.12244898 | 6.1 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | | | 3600 | 1 | 3600 | 0.00003 | 13.60544218 | 48979.59184 | 1.469387755 | 1.5 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | | | 5400 | 1 | 5400 | 0.00003 | 13.60544218 | 73469.38776 | 2.204081633 | 2.2 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 13.60544218 | 149659.8639 | 4.489795918 | 4.5 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | | | 17000 | 1 | 17000 | 0.00003 | 13.60544218 | 231292.517 | 6.93877551 | 6.9 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 13.60544218 | 149659.8639 | 4.489795918 | 4.5 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | | | 8800 | 1 | 8800 | 0.00003 | 13.60544218 | 119727.8912 | 3.591836735 | 3.6 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | | | | | | 0.00003 | 13.60544218 | | | |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | | | 5800 | 0 | 0 | 0.00003 | 13.60544218 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | | | 1800 | 0 | 0 | 0.00003 | 13.60544218 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | | | 3500 | 1 | 3500 | 0.00003 | 13.60544218 | 47619.04762 | 1.428571429 | 1.4 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | 26.25238249 | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | | | | | | 0.00003 | 26.25238249 | | | |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | | | 2100 | 0 | 0 | 0.00003 | 26.25238249 | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | 26.25238249 | 393785.7374 | 11.81357212 | 12 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | | | 3600 | 1 | 3600 | 0.00003 | 26.25238249 | 94508.57698 | 2.835257309 | 2.8 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | | | 5400 | 1 | 5400 | 0.00003 | 26.25238249 | 141762.8655 | 4.252885964 | 4.3 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 26.25238249 | 288776.2074 | 8.663286223 | 8.7 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | | | 17000 | 1 | 17000 | 0.00003 | 26.25238249 | 446290.5024 | 13.38871507 | 13 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 26.25238249 | 288776.2074 | 8.663286223 | 8.7 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | | | 8800 | 1 | 8800 | 0.00003 | 26.25238249 | 231020.9659 | 6.930628978 | 6.9 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | | | | | | 0.00003 | 26.25238249 | | | |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | | | 5800 | 0 | 0 | 0.00003 | 26.25238249 | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | | | 1800 | 0 | 0 | 0.00003 | 26.25238249 | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | | | 3500 | 1 | 3500 | 0.00003 | 26.25238249 | 91883.33873 | 2.756500162 | 2.8 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | 4.004004004 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | | | | | | 0.00003 | 4.004004004 | | | |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | | | 2100 | 0 | 0 | 0.00003 | 4.004004004 | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | 4.004004004 | 60060.06006 | 1.801801802 | 1.8 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | | | 3600 | 1 | 3600 | 0.00003 | 4.004004004 | 14414.41441 | 0.432432432 | 0.43 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | | | 5400 | 1 | 5400 | 0.00003 | 4.004004004 | 21621.62162 | 0.648648649 | 0.65 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 4.004004004 | 44044.04404 | 1.321321321 | 1.3 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | | | 17000 | 1 | 17000 | 0.00003 | 4.004004004 | 68068.06807 | 2.042042042 | 2 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 4.004004004 | 44044.04404 | 1.321321321 | 1.3 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | | | 8800 | 1 | 8800 | 0.00003 | 4.004004004 | 35235.23524 | 1.057057057 | 1.1 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | | | | | | 0.00003 | 4.004004004 | | | |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | | | 5800 | 0 | 0 | 0.00003 | 4.004004004 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | | | 1800 | 0 | 0 | 0.00003 | 4.004004004 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | | | 3500 | 1 | 3500 | 0.00003 | 4.004004004 | 14014.01401 | 0.42042042 | 0.42 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | 16.38001638 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | | | | | | 0.00003 | 16.38001638 | | | |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | | | 2100 | 0 | 0 | 0.00003 | 16.38001638 | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | 16.38001638 | 245700.2457 | 7.371007371 | 7.4 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | | | 3600 | 1 | 3600 | 0.00003 | 16.38001638 | 58968.05897 | 1.769041769 | 1.8 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | | | 5400 | 1 | 5400 | 0.00003 | 16.38001638 | 88452.08845 | 2.653562654 | 2.7 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 16.38001638 | 180180.1802 | 5.405405405 | 5.4 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | | | 17000 | 1 | 17000 | 0.00003 | 16.38001638 | 278460.2785 | 8.353808354 | 8.4 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 16.38001638 | 180180.1802 | 5.405405405 | 5.4 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | | | 8800 | 1 | 8800 | 0.00003 | 16.38001638 | 144144.1441 | 4.324324324 | 4.3 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | | | | | | 0.00003 | 16.38001638 | | | |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | | | 5800 | 0 | 0 | 0.00003 | 16.38001638 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | | | 1800 | 0 | 0 | 0.00003 | 16.38001638 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | | | 3500 | 1 | 3500 | 0.00003 | 16.38001638 | 57330.05733 | 1.71990172 | 1.7 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | 8.378718056 | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | | | | | | 0.00003 | 8.378718056 | | | |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | | | 2100 | 0 | 0 | 0.00003 | 8.378718056 | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | 8.378718056 | 125680.7708 | 3.770423125 | 3.8 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | | | 3600 | 1 | 3600 | 0.00003 | 8.378718056 | 30163.385 | 0.90490155 | 0.9 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | | | 5400 | 1 | 5400 | 0.00003 | 8.378718056 | 45245.0775 | 1.357352325 | 1.4 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 8.378718056 | 92165.89862 | 2.764976959 | 2.8 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | | | 17000 | 1 | 17000 | 0.00003 | 8.378718056 | 142438.207 | 4.273146209 | 4.3 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 8.378718056 | 92165.89862 | 2.764976959 | 2.8 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | | | 8800 | 1 | 8800 | 0.00003 | 8.378718056 | 73732.71889 | 2.211981567 | 2.2 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | | | | | | 0.00003 | 8.378718056 | | | |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | | | 5800 | 0 | 0 | 0.00003 | 8.378718056 | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | | | 1800 | 0 | 0 | 0.00003 | 8.378718056 | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | | | 3500 | 1 | 3500 | 0.00003 | 8.378718056 | 29325.5132 | 0.879765396 | 0.88 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | | | 1600 | 0 | 0 | 0.00003 | 14.01488998 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | | | | | | 0.00003 | 14.01488998 | | | |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | | | 2100 | 0 | 0 | 0.00003 | 14.01488998 | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | | | 15000 | 1 | 15000 | 0.00003 | 14.01488998 | 210223.3498 | 6.306700493 | 6.3 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | | | 3600 | 1 | 3600 | 0.00003 | 14.01488998 | 50453.60394 | 1.513608118 | 1.5 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | | | 5400 | 1 | 5400 | 0.00003 | 14.01488998 | 75680.40592 | 2.270412177 | 2.3 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 14.01488998 | 154163.7898 | 4.624913695 | 4.6 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | | | 17000 | 1 | 17000 | 0.00003 | 14.01488998 | 238253.1297 | 7.147593892 | 7.1 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | | | 11000 | 1 | 11000 | 0.00003 | 14.01488998 | 154163.7898 | 4.624913695 | 4.6 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | | | 8800 | 1 | 8800 | 0.00003 | 14.01488998 | 123331.0319 | 3.699930956 | 3.7 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | | | | | | 0.00003 | 14.01488998 | | | |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | | | 5800 | 0 | 0 | 0.00003 | 14.01488998 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | | | 1800 | 0 | 0 | 0.00003 | 14.01488998 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | | | 3500 | 1 | 3500 | 0.00003 | 14.01488998 | 49052.11495 | 1.471563448 | 1.5 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 34000 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5700 | 1 | 5700 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 10000 | 1 | 10000 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 1 | 8600 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8900 | 1 | 8900 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 17000 | 1 | 17000 | 0.00003 | NA | 0 | 0 | 0 | 24000 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 4500 | 1 | 4500 | 0.00003 | NA | 0 | 0 | 0 | 6600 | 1 | 6600 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 9400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 1 | 7000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 8200 | 1 | 8200 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 10000 | 1 | 10000 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1800 | 1 | 1800 | 0.00003 | NA | 0 | 0 | 0 | 2700 | 1 | 2700 | 0.00003 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8800 | 1 | 8800 | 0.00003 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 3000 | 1 | 3000 | 0.00003 | NA | 0 | 0 | 0 | 4100 | 1 | 4100 | 0.00003 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2200 | 1 | 2200 | 0.00003 | NA | 0 | 0 | 0 | 3700 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 6800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 1 | 3900 | 0.00003 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6400 | 0 | 0 | 0.00003 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6800 | 1 | 6800 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 8200 | 1 | 8200 | 0.00003 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 34000 | 0 | 0 | 0.00003 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 10000 | 0 | 0 | 0.00003 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00003 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00003 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6200 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3500 | 1 | 3500 | 0.00003 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00003 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 12000 | 1 | 12000 | 0.00003 | NA | 0 | 0 | 0 | 22000 | 0 | 0 | 0.00003 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 31000 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 11000 | 1 | 11000 | 0.00003 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 9550 | 1 | 9550 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9700 | 1 | 9700 | 0.00003 | NA | 0 | 0 | 0 | 15000 | 1 | 15000 | 0.00003 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 11000 | 1 | 11000 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 8000 | 1 | 8000 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00003 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 18000 | 0 | 0 | 0.00003 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 5600 | 1 | 5600 | 0.00003 | NA | 0 | 0 | 0 | 9900 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5600 | 1 | 5600 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 2400 | 1 | 2400 | 0.00003 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 7200 | 1 | 7200 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3700 | 1 | 3700 | 0.00003 | NA | 0 | 0 | 0 | 6200 | 0 | 0 | 0.00003 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 9600 | 1 | 9600 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 5200 | 1 | 5200 | 0.00003 | NA | 0 | 0 | 0 | 9000 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 5100 | 1 | 5100 | 0.00003 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7300 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9700 | 0 | 0 | 0.00003 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 32000 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 12000 | 1 | 12000 | 0.00003 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 10000 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 37000 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8900 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 1 | 5600 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | 0.00003 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.00003 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 29000 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | 0.00003 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00003 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 0 | 0 | 0.00003 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5900 | 0 | 0 | 0.00003 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00003 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00003 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 3100 | 1 | 3100 | 0.00003 | NA | 0 | 0 | 0 | 4100 | 1 | 4100 | 0.00003 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00003 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9800 | 0 | 0 | 0.00003 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6400 | 0 | 0 | 0.00003 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00003 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.00003 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 35000 | 0 | 0 | 0.00003 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00003 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3800 | 1 | 3800 | 0.00003 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00003 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00003 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 34000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5700 | 1 | 5700 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 10000 | 1 | 10000 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 1 | 8600 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8900 | 1 | 8900 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 17000 | 1 | 17000 | 0.00003 | NA | 0 | 0 | 0 | 24000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 4500 | 1 | 4500 | 0.00003 | NA | 0 | 0 | 0 | 6600 | 1 | 6600 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 9400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 1 | 7000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 8200 | 1 | 8200 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 10000 | 1 | 10000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1800 | 1 | 1800 | 0.00003 | NA | 0 | 0 | 0 | 2700 | 1 | 2700 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8800 | 1 | 8800 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 3000 | 1 | 3000 | 0.00003 | NA | 0 | 0 | 0 | 4100 | 1 | 4100 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2200 | 1 | 2200 | 0.00003 | NA | 0 | 0 | 0 | 3700 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 6800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 1 | 3900 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6400 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6800 | 1 | 6800 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 8200 | 1 | 8200 | 0.00003 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 34000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 10000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6200 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3500 | 1 | 3500 | 0.00003 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 12000 | 1 | 12000 | 0.00003 | NA | 0 | 0 | 0 | 22000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 31000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 11000 | 1 | 11000 | 0.00003 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 9550 | 1 | 9550 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9700 | 1 | 9700 | 0.00003 | NA | 0 | 0 | 0 | 15000 | 1 | 15000 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 11000 | 1 | 11000 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 8000 | 1 | 8000 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 18000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 5600 | 1 | 5600 | 0.00003 | NA | 0 | 0 | 0 | 9900 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5600 | 1 | 5600 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 2400 | 1 | 2400 | 0.00003 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 7200 | 1 | 7200 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3700 | 1 | 3700 | 0.00003 | NA | 0 | 0 | 0 | 6200 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 9600 | 1 | 9600 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 5200 | 1 | 5200 | 0.00003 | NA | 0 | 0 | 0 | 9000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 5100 | 1 | 5100 | 0.00003 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7300 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9700 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 32000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 12000 | 1 | 12000 | 0.00003 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 10000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 37000 | 0 | 0 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8900 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 1 | 5600 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 29000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 27000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5900 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 3100 | 1 | 3100 | 0.00003 | NA | 0 | 0 | 0 | 4100 | 1 | 4100 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9800 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6400 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.00003 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 35000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3800 | 1 | 3800 | 0.00003 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00003 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 34000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5700 | 1 | 5700 | 0.00003 | 0.03102406 | 176.8371429 | 0.005305114 | 0.0053 | 11000 | 0 | 0 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 10000 | 1 | 10000 | 0.00003 | 0.03102406 | 310.2406015 | 0.009307218 | 0.0093 | 14000 | 1 | 14000 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 1 | 8600 | 0.00003 | 0.03102406 | 266.8069173 | 0.008004208 | 0.008 | 17000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8900 | 1 | 8900 | 0.00003 | 0.03102406 | 276.1141353 | 0.008283424 | 0.0083 | 17000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 17000 | 1 | 17000 | 0.00003 | 0.03102406 | 527.4090226 | 0.015822271 | 0.016 | 24000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 4500 | 1 | 4500 | 0.00003 | 0.03102406 | 139.6082707 | 0.004188248 | 0.0042 | 6600 | 1 | 6600 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 9400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 7000 | 1 | 7000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 8200 | 1 | 8200 | 0.00003 | 0.03102406 | 254.3972932 | 0.007631919 | 0.0076 | 12000 | 1 | 12000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 15000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 10000 | 1 | 10000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1800 | 1 | 1800 | 0.00003 | 0.03102406 | 55.84330827 | 0.001675299 | 0.0017 | 2700 | 1 | 2700 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 15000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 8800 | 1 | 8800 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 3000 | 1 | 3000 | 0.00003 | 0.03102406 | 93.07218045 | 0.002792165 | 0.0028 | 4100 | 1 | 4100 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2200 | 1 | 2200 | 0.00003 | 0.03102406 | 68.25293233 | 0.002047588 | 0.002 | 3700 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 6800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3900 | 1 | 3900 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6400 | 0 | 0 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6800 | 1 | 6800 | 0.00003 | 0.03102406 | 210.963609 | 0.006328908 | 0.0063 | 13000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 8200 | 1 | 8200 | 0.00003 | 0.03102406 | 254.3972932 | 0.007631919 | 0.0076 | 16000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 34000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6200 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3500 | 1 | 3500 | 0.00003 | 0.03102406 | 108.5842105 | 0.003257526 | 0.0033 | 6800 | 0 | 0 | 0.00003 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 12000 | 1 | 12000 | 0.00003 | 0.03102406 | 372.2887218 | 0.011168662 | 0.011 | 22000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 31000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 11000 | 1 | 11000 | 0.00003 | 0.03102406 | 341.2646617 | 0.01023794 | 0.01 | 19000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 9550 | 1 | 9550 | 0.00003 | 0.03102406 | 296.2797744 | 0.008888393 | 0.0089 | 13000 | 1 | 13000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.00003 | 0.03102406 | | | | | | | 0.00003 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9700 | 1 | 9700 | 0.00003 | 0.03102406 | 300.9333835 | 0.009028002 | 0.009 | 15000 | 1 | 15000 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 11000 | 1 | 11000 | 0.00003 | 0.03102406 | 341.2646617 | 0.01023794 | 0.01 | 17000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 8000 | 1 | 8000 | 0.00003 | 0.03102406 | 248.1924812 | 0.007445774 | 0.0074 | 13000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00003 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 18000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 9400 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 5600 | 1 | 5600 | 0.00003 | 0.03102406 | 173.7347368 | 0.005212042 | 0.0052 | 9900 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5600 | 1 | 5600 | 0.00003 | 0.03102406 | 173.7347368 | 0.005212042 | 0.0052 | 11000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 2400 | 1 | 2400 | 0.00003 | 0.03102406 | 74.45774436 | 0.002233732 | 0.0022 | 3600 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 7200 | 1 | 7200 | 0.00003 | 0.03102406 | 223.3732331 | 0.006701197 | 0.0067 | 14000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 9400 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3700 | 1 | 3700 | 0.00003 | 0.03102406 | 114.7890226 | 0.003443671 | 0.0034 | 6200 | 0 | 0 | 0.00003 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 9600 | 1 | 9600 | 0.00003 | 0.03102406 | 297.8309774 | 0.008934929 | 0.0089 | 17000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 5200 | 1 | 5200 | 0.00003 | 0.03102406 | 161.3251128 | 0.004839753 | 0.0048 | 9000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 5100 | 1 | 5100 | 0.00003 | 0.03102406 | 158.2227068 | 0.004746681 | 0.0047 | 7400 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 7300 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 9700 | 0 | 0 | 0.00003 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 32000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 12000 | 1 | 12000 | 0.00003 | 0.03102406 | 372.2887218 | 0.011168662 | 0.011 | 16000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 37000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 8900 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 1 | 5600 | 0.00003 | 0.03102406 | 173.7347368 | 0.005212042 | 0.0052 | 11000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 2800 | 0 | 0 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.00003 | 0.03102406 | | | | | | | 0.00003 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 29000 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 2800 | 0 | 0 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 27000 | 0 | 0 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.00003 | 0.03102406 | | | | | | | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 5900 | 0 | 0 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.00003 | 0.03102406 | | | | | | | 0.00003 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 3100 | 1 | 3100 | 0.00003 | 0.03102406 | 96.17458647 | 0.002885238 | 0.0029 | 4100 | 1 | 4100 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 9800 | 0 | 0 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6400 | 0 | 0 | 0.00003 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00003 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.00003 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 35000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00003 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3800 | 1 | 3800 | 0.00003 | 0.03102406 | 117.8914286 | 0.003536743 | 0.0035 | 6600 | 0 | 0 | 0.00003 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00003 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.00003 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00003 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00003 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00003 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00003 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00003 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00003 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00003 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00003 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00003 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00003 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00003 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00003 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00003 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00003 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00003 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00003 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00003 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00003 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00003 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00003 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00003 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00003 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00003 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00003 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | 2.258393236 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00003 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | 2.258393236 | | | | | | | 0.00003 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | 2.258393236 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | 2.258393236 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | 2.258393236 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | 2.258393236 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00003 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | 2.258393236 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00003 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | 2.258393236 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | 2.258393236 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00003 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.00003 | 2.258393236 | 4742.625795 | 0.142278774 | 0.14 | 3900 | 0 | 0 | 0.00003 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | 2.258393236 | | | | | | | 0.00003 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | 2.258393236 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | 2.258393236 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00003 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | 2.258393236 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00003 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00003 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00003 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00003 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00003 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00003 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00003 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00003 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00003 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00003 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00003 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00003 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00003 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00003 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00003 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00003 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00003 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00003 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00003 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.00003 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.00003 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00003 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | 1.580875265 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00003 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | 1.580875265 | | | | | | | 0.00003 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | 1.580875265 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | 1.580875265 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00003 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | 1.580875265 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00003 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | 1.580875265 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00003 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | 1.580875265 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00003 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | 1.580875265 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00003 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | 1.580875265 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00003 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.00003 | 1.580875265 | 3319.838057 | 0.099595142 | 0.1 | 3900 | 0 | 0 | 0.00003 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | 1.580875265 | | | | | | | 0.00003 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | 1.580875265 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00003 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | 1.580875265 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00003 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | 1.580875265 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00003 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 6100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 6700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 8600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 4500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 4900 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 7300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 7900 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 7700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 5400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 7800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 5100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 9500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 7100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 6700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 8500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 9500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 9100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 4700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 6000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 4900 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 5400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 6900 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 4700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 8600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 8700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 4500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 3700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 7900 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 5100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 18000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 4400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 4900 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 7600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 6100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 6700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 8600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 4500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 4900 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 7300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 7900 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 7700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 5400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 7800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 5100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 9500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 7100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 6700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 8500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 9500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 9100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 4700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 6000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 4900 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 5400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 6900 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 4700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 8600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 8700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 4500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 3700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 7900 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 5100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 18000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 4400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 4900 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 7600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.03102406 | 0 | 0 | 0 | 6100 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.03102406 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.03102406 | 434.3368421 | 0.013030105 | 0.013 | 6700 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.03102406 | 0 | 0 | 0 | 8600 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.03102406 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.03102406 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.03102406 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.03102406 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.03102406 | 204.758797 | 0.006142764 | 0.0061 | 4500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.03102406 | 217.1684211 | 0.006515053 | 0.0065 | 4900 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.03102406 | 372.2887218 | 0.011168662 | 0.011 | 7300 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.03102406 | 310.2406015 | 0.009307218 | 0.0093 | 7900 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.03102406 | 83.76496241 | 0.002512949 | 0.0025 | 1500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.03102406 | 273.0117293 | 0.008190352 | 0.0082 | 7700 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.03102406 | 127.1986466 | 0.003815959 | 0.0038 | 1600 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.03102406 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.03102406 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.03102406 | 120.9938346 | 0.003629815 | 0.0036 | 3500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.03102406 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.03102406 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.03102406 | 0 | 0 | 0 | 5400 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.03102406 | 0 | 0 | 0 | 7800 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.03102406 | 0 | 0 | 0 | 5100 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.03102406 | 0 | 0 | 0 | 9500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.03102406 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.03102406 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.03102406 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.03102406 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.03102406 | 0 | 0 | 0 | 7100 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.03102406 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.03102406 | 403.312782 | 0.012099383 | 0.012 | 5800 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.03102406 | | | | | | | 0.03 | 0.03102406 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.03102406 | 465.3609023 | 0.013960827 | 0.014 | 7400 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.03102406 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.03102406 | 0 | 0 | 0 | 6700 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.03102406 | 0 | 0 | 0 | 8500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.03102406 | 0 | 0 | 0 | 9500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.03102406 | 0 | 0 | 0 | 9100 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.03102406 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.03102406 | 0 | 0 | 0 | 4700 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.03102406 | 0 | 0 | 0 | 6000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.03102406 | 0 | 0 | 0 | 4900 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.03102406 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.03102406 | 0 | 0 | 0 | 5400 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.03102406 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.03102406 | 0 | 0 | 0 | 6900 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.03102406 | 0 | 0 | 0 | 4700 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.03102406 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.03102406 | 0 | 0 | 0 | 8600 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.03102406 | 0 | 0 | 0 | 8700 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.03102406 | 0 | 0 | 0 | 4500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.03102406 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.03102406 | 0 | 0 | 0 | 3700 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.03102406 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.03102406 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.03102406 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.03102406 | 0 | 0 | 0 | 7900 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.03102406 | 0 | 0 | 0 | 5100 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.03102406 | 0 | 0 | 0 | 18000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.03102406 | 0 | 0 | 0 | 4400 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.03102406 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.03102406 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.03102406 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.03102406 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.03102406 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.03102406 | | | | | | | 0.03 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.03102406 | 96.17458647 | 0.002885238 | 0.0029 | 1500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.03102406 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.03102406 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.03102406 | | | | | | | 0.03 | 0.03102406 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.03102406 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.03102406 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.03102406 | | | | | | | 0.03 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.03102406 | 127.1986466 | 0.003815959 | 0.0038 | 1500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.03102406 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.03102406 | 0 | 0 | 0 | 4900 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.03102406 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.03102406 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.03102406 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.03102406 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.03102406 | 0 | 0 | 0 | 7400 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.03102406 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.03102406 | 0 | 0 | 0 | 7600 | 0 | 0 | 0.03 | 0.03102406 | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.03 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.03 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6100 | 0 | 0 | 0.0001 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6700 | 0 | 0 | 0.0001 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8600 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.0001 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 4500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8800 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 7700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0001 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.0001 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5400 | 0 | 0 | 0.0001 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7800 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0001 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5100 | 0 | 0 | 0.0001 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9500 | 0 | 0 | 0.0001 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0001 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0001 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0001 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7100 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.0001 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6700 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8500 | 0 | 0 | 0.0001 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9500 | 0 | 0 | 0.0001 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.0001 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9100 | 0 | 0 | 0.0001 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4700 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6000 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4900 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5400 | 0 | 0 | 0.0001 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6900 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4700 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.0001 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8600 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8700 | 0 | 0 | 0.0001 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4500 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3700 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7900 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5100 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 18000 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4400 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0001 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.0001 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.0001 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0001 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0001 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1900 | 1 | 1900 | 0.0001 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.0001 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0001 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.0001 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.0001 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 315000 | 1 | 315000 | 0.0001 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.0001 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.0001 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 18000 | 1 | 18000 | 0.0001 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 1 | 1500 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.0001 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4900 | 0 | 0 | 0.0001 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0001 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0001 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0001 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0001 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.0001 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0001 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7600 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6100 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6700 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8600 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 4500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8800 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 7700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.0001 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5400 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7800 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5100 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9500 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7100 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6700 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8500 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9500 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 9100 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4700 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4900 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5400 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6900 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4700 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8600 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8700 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4500 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3700 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7900 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5100 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 18000 | 0 | 0 | 0.0001 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4400 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1900 | 1 | 1900 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 315000 | 1 | 315000 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 18000 | 1 | 18000 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 1 | 1500 | 0.00003 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4900 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 7600 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6100 | 0 | 0 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.0001 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6700 | 0 | 0 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 8600 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 4500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 8800 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 4900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 9400 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 7700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 5400 | 0 | 0 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 7800 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 5100 | 0 | 0 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 9500 | 0 | 0 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 7100 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | | | | 0.00003 | 0.03102406 | | | | | | | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 7400 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6700 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 8500 | 0 | 0 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 9500 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.0001 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 9100 | 0 | 0 | 0.0001 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0001 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 4700 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6000 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 4900 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 5400 | 0 | 0 | 0.0001 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6900 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 4700 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.0001 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 8600 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 8700 | 0 | 0 | 0.0001 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 4500 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3700 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 7900 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 5100 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 18000 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 4400 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1900 | 1 | 1900 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | | | | 0.00003 | 0.03102406 | | | | | | | 0.0001 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 315000 | 1 | 315000 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | | | | 0.00003 | 0.03102406 | | | | | | | 0.0001 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 18000 | 1 | 18000 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | | | | 0.00003 | 0.03102406 | | | | | | | 0.0001 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 1 | 1500 | 0.00003 | 0.03102406 | 46.53609023 | 0.001396083 | 0.0014 | 1500 | 0 | 0 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 4900 | 0 | 0 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0001 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0001 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0001 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.0001 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0001 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 7400 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.00003 | 0.03102406 | 0 | 0 | 0 | 7600 | 0 | 0 | 0.0001 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.0001 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0001 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.0001 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.0001 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0001 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.0001 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.0001 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0001 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.0001 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.0001 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0001 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.0001 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.0001 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0001 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.0001 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.0001 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0001 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.0001 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.0001 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0001 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.0001 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.0001 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0001 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.0001 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.0001 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0001 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.0001 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.0001 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0001 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.0001 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.0001 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0001 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.0001 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.00003 | NA | 0 | 0 | 0 | | | | 0.0001 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00003 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 34000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 24000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 22000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 24000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | 4600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 23000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 3700 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 10000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 6400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 34000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 10000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 6200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 22000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 31000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 18000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 9900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | 6200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 9000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 7300 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 9700 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 32000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 10000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 37000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 8900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 29000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 27000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 5900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 9800 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 6400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 35000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 34000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 24000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 22000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 24000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | 4600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 23000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 3700 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 10000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 6400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 34000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 10000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 6200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 22000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 31000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 18000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 9900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | 6200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 9000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 7300 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 9700 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 32000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 10000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 37000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 8900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 29000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 27000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 5900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 9800 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 6400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 35000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.03102406 | 0 | 0 | 0 | 34000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.03102406 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.03102406 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.03102406 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.03102406 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.03102406 | 0 | 0 | 0 | 24000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.03102406 | 0 | 0 | 0 | 22000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.03102406 | 0 | 0 | 0 | 24000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.03102406 | 0 | 0 | 0 | 4600 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.03102406 | 0 | 0 | 0 | 23000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.03102406 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.03102406 | 0 | 0 | 0 | 3700 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.03102406 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.03102406 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.03102406 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.03102406 | 0 | 0 | 0 | 6400 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.03102406 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.03102406 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.03102406 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.03102406 | 0 | 0 | 0 | 34000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | Org/Field Duplicate | 3/13/2009 | SO | 27 | 0.03102406 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.03102406 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.03102406 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | Org/Field Duplicate | 3/12/2009 | SO | 30 | 0.03102406 | 0 | 0 | 0 | 6200 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.03102406 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.03102406 | 0 | 0 | 0 | 22000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.03102406 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.03102406 | 0 | 0 | 0 | 31000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.03102406 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.03102406 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | Field Duplicate | 3/25/2009 | SO | 38 | 0.03102406 | | | | | | | 0.0003 | 0.03102406 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | Org/Field Duplicate | 3/12/2009 | SO | 41 | 0.03102406 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.03102406 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.03102406 | 2202.708271 | 0.220270827 | 0.22 | 6600 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.03102406 | 0 | 0 | 0 | 18000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.03102406 | 0 | 0 | 0 | 9400 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.03102406 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.03102406 | 0 | 0 | 0 | 9900 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.03102406 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.03102406 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.03102406 | 0 | 0 | 0 | 9400 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.03102406 | 0 | 0 | 0 | 6200 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.03102406 | 0 | 0 | 0 | 9000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.03102406 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.03102406 | 0 | 0 | 0 | 7400 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.03102406 | 0 | 0 | 0 | 7300 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.03102406 | 0 | 0 | 0 | 9700 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.03102406 | 0 | 0 | 0 | 32000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.03102406 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.03102406 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.03102406 | 0 | 0 | 0 | 37000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.03102406 | 0 | 0 | 0 | 8900 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.03102406 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.03102406 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.03102406 | 0 | 0 | 0 | 2800 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.03102406 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.03102406 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.03102406 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.03102406 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.03102406 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.03102406 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.03102406 | 58.94571429 | 0.005894571 | 0.0059 | 3300 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicate | 2/11/2009 | SO | 79 | 0.03102406 | | | | | | | 0.0003 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.03102406 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.03102406 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.03102406 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.03102406 | 0 | 0 | 0 | 29000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.03102406 | 0 | 0 | 0 | 2800 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.03102406 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.03102406 | 372.2887218 | 0.037228872 | 0.037 | 3300 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.03102406 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.03102406 | 9772.578947 | 0.977257895 | 0.98 | 27000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicate | 6/26/2007 | SO | 89 | 0.03102406 | | | | | | | 0.0003 | 0.03102406 | | | |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.03102406 | 0 | 0 | 0 | 5900 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.03102406 | 266.8069173 | 0.026680692 | 0.027 | 3100 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.03102406 | 558.4330827 | 0.055843308 | 0.056 | 3100 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicate | 6/29/2007 | SO | 93 | 0.03102406 | | | | | | | 0.0003 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.03102406 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.03102406 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.03102406 | 0 | 0 | 0 | 9800 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.03102406 | 0 | 0 | 0 | 6400 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.03102406 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.03102406 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.03102406 | 0 | 0 | 0 | 35000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.03102406 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.03102406 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.03102406 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.03102406 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.0003 | 0.03102406 | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Mamm TEF | BAF (dw/dw) | Modeled Conc | Mamm TEC | Mamm TEC (2 sig figs) |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.0003 | NA | 0 | 0 | 0 |

**Table F2-4. Modeled Tissue Mammalian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**
BAF: bioaccumulation factor
DL-PCB: dioxin-like polychlorinated biphenyls
dw: dry weight
LAA: lower assessment area
MAA: middle assessment area
NA: not applicable
mg/kg dw: milligrams per kilogram dry weight
ND: nondetect
ng/kg dw: nanograms per kilogram dry weight
PCDD: polychlorinated dibenzo-p-dioxin
PCDF: polychlorinated dibenzofuran
SED: sediment
SO: soil
TEC: threshold effect concentration
TEF: toxic equivalency factor
UAA: upper assessment area

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Bird PCDD/PCDF TEQ | Bird PCDD/PCDF TEQ (2 sig figs) | Bird DL-PCB TEQ | Bird DL-PCB TEQ (2 sig figs) | Bird Total TEQ | Bird Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 34.15 | 34 | 15.44 | 15.00 | 49.58 | 50 | 0.321 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 10.23 | 10 | 4.94 | 4.90 | 15.17 | 15 | 0.308 | 0 | 0 | 1 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 17.37 | 17 | 7.17 | 7.20 | 24.54 | 25 | 0.455 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 47.11 | 47 | 13.50 | 13.00 | 60.60 | 61 | 0.165 | 0 | 0 | 1 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 31.72 | 32 | 12.13 | 12.00 | 43.85 | 44 | 0.195 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 23.11 | 23 | 8.73 | 8.70 | 31.83 | 32 | 0.116 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 26.41 | 26 | 11.22 | 11.00 | 37.64 | 38 | 0.138 | 0 | 0 | 1 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3.23 | 3 | 2.20 | 2.20 | 5.43 | 5 | 0.187 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 40.69 | 41 | 21.36 | 21.00 | 62.05 | 62 | 0.129 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 29.93 | 30 | 7.61 | 7.60 | 37.54 | 38 | 0.151 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 19.04 | 19 | 6.79 | 6.80 | 25.82 | 26 | 0.21 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 21.35 | 21 | 7.37 | 7.40 | 28.72 | 29 | 0.0722 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 28.81 | 29 | 12.72 | 13.00 | 41.52 | 42 | 0.119 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 29.77 | 30 | 10.70 | 11.00 | 40.48 | 40 | 0.119 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | 2.47 | 2.50 | 2.47 | 3 | | | | 1 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 19.01 | 19 | 8.43 | 8.40 | 27.43 | 27 | 0.199 | 1 | 0.199 | 1 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 13.10 | 13 | 4.05 | 4.10 | 17.16 | 17 | 0.188 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 7.91 | 8 | 2.43 | 2.40 | 10.34 | 10 | 0.184 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 7.76 | 8 | 2.37 | 2.40 | 10.13 | 10 | 0.134 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 51.54 | 52 | 19.06 | 19.00 | 70.60 | 71 | 0.327 | 1 | 0.327 | 1 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 15.51 | 16 | 3.26 | 3.30 | 18.78 | 19 | 0.103 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 10.96 | 11 | 2.11 | 2.10 | 13.07 | 13 | 0.16 | 0 | 0 | 1 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 20.72 | 21 | 8.95 | 8.90 | 29.66 | 30 | 0.262 | 1 | 0.262 | 1 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 12.76 | 13 | 5.51 | 5.50 | 18.27 | 18 | 0.232 | 0 | 0 | 1 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 20.21 | 20 | 10.31 | 10.00 | 30.52 | 31 | 0.372 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 54.75 | 55 | 17.71 | 18.00 | 72.46 | 72 | 1.38 | 0 | 0 | 1 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 25.08 | 25 | 4.24 | 4.20 | 29.32 | 29 | 0.346 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 33.68 | 34 | 10.45 | 10.00 | 44.13 | 44 | 0.383 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 40.83 | 41 | 13.34 | 13.00 | 54.17 | 54 | 0.411 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 12.11 | 12 | 2.47 | 2.50 | 14.58 | 15 | 0.109 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 22.12 | 22 | 3.73 | 3.70 | 25.85 | 26 | 0.18 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 24.22 | 24 | 14.21 | 14.00 | 38.43 | 38 | 0.193 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 16.41 | 16 | 2.53 | 2.50 | 18.94 | 19 | 0.389 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 31.80 | 32 | 13.17 | 13.00 | 44.97 | 45 | 0.187 | 1 | 0.187 | 1 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 15.67 | 16 | 6.09 | 6.10 | 21.77 | 22 | 0.212 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 35.25 | 35 | 14.62 | 15.00 | 49.87 | 50 | 0.186 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 36.40 | 36 | 12.98 | 13.00 | 49.38 | 49 | 0.16 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | | | | | | | 1 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 32.87 | 33 | 13.66 | 14.00 | 46.53 | 47 | 0.178 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 22.35 | 22 | 15.96 | 16.00 | 38.30 | 38 | 0.244 | 0 | 0 | 1 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 45.94 | 46 | 10.53 | 11.00 | 56.47 | 56 | 0.247 | 1 | 0.247 | 1 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 50.88 | 51 | 9.26 | 9.30 | 60.14 | 60 | 0.59 | 0 | 0 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Bird PCDD/PCDF TEQ | Bird PCDD/PCDF TEQ (2 sig figs) | Bird DL-PCB TEQ | Bird DL-PCB TEQ (2 sig figs) | Bird Total TEQ | Bird Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 54.43 | 54 | 12.48 | 12.00 | 66.91 | 67 | 0.543 | 1 | 0.543 | 1 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 12.46 | 12 | 2.17 | 2.20 | 14.63 | 15 | 0.443 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 70.73 | 71 | 8.98 | 9.00 | 79.71 | 80 | 0.179 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 43.18 | 43 | 6.67 | 6.70 | 49.85 | 50 | 1.81 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 15.18 | 15 | 3.39 | 3.40 | 18.58 | 19 | 0.322 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 18.86 | 19 | 4.04 | 4.00 | 22.90 | 23 | 0.916 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 58.50 | 59 | 6.71 | 6.70 | 65.21 | 65 | 0.229 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 37.14 | 37 | 7.69 | 7.70 | 44.83 | 45 | 0.641 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 25.99 | 26 | 6.62 | 6.60 | 32.61 | 33 | 5.48 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1.74 | 2 | 2.46 | 2.50 | 4.20 | 4 | 0.874 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 21.21 | 21 | 9.11 | 9.10 | 30.32 | 30 | 0.549 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 141.40 | 140 | 5.13 | 5.10 | 146.53 | 150 | 0.518 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | 4.55 | 4.50 | 4.55 | 5 | | | | 1 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 18.75 | 19 | 10.20 | 10.00 | 28.96 | 29 | 0.914 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 20.03 | 20 | 11.35 | 11.00 | 31.38 | 31 | 0.54 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 15.62 | 16 | 6.65 | 6.60 | 22.27 | 22 | 0.765 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 25.00 | 25 | 6.67 | 6.70 | 31.67 | 32 | 0.533 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 34.96 | 35 | 6.01 | 6.00 | 40.97 | 41 | 0.717 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 13.67 | 14 | 3.28 | 3.30 | 16.94 | 17 | 1.03 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 28.83 | 29 | 4.98 | 5.00 | 33.82 | 34 | 0.632 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 74.87 | 75 | 18.44 | 18.00 | 93.31 | 93 | 0.97 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 57.69 | 58 | 13.63 | 14.00 | 71.32 | 71 | 1.47 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 26.80 | 27 | 5.45 | 5.50 | 32.25 | 32 | 0.733 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 50.19 | 50 | 14.72 | 15.00 | 64.91 | 65 | 13.9 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 17.27 | 17 | 3.63 | 3.60 | 20.90 | 21 | 1.08 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 17.79 | 18 | 6.77 | 6.80 | 24.55 | 25 | 0.168 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 7.86 | 8 | 7.22 | 7.20 | 15.08 | 15 | 0.183 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 8.83 | 9 | 0.79 | 0.79 | 9.61 | 10 | 0.25 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1.28 | 1 | | | 1.28 | 1 | 0.14 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 4.66 | 5 | 0.19 | 0.19 | 4.86 | 5 | 0.15 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.00 | 0 | | | 0.00 | 0 | 0.092 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 13.15 | 13 | 1.56 | 1.60 | 14.70 | 15 | 0.22 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 3.62 | 4 | 0.01 | 0.01 | 3.63 | 4 | 0.126 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 2.50 | 3 | 2.90 | 2.90 | 5.40 | 5 | 0.376 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 19.30 | 19 | 3.67 | 3.70 | 22.97 | 23 | 0.39 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 3.97 | 4 | 0.02 | 0.02 | 3.99 | 4 | 0.123 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | | | | | | | 1 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 6.75 | 7 | 0.79 | 0.79 | 7.54 | 8 | 0.6 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 4.74 | 5 | 0.99 | 0.99 | 5.73 | 6 | 0.24 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.36 | 0 | 0.14 | 0.14 | 0.50 | 1 | 0.2 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 61.28 | 61 | 18.46 | 18.00 | 79.74 | 80 | 0.73 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.08 | 0 | | | 0.08 | 0 | 0.21 | 0 | 0 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Bird PCDD/PCDF TEQ | Bird PCDD/PCDF TEQ (2 sig figs) | Bird DL-PCB TEQ | Bird DL-PCB TEQ (2 sig figs) | Bird Total TEQ | Bird Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.16 | 0 | | | 0.16 | 0 | 0.18 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 3.29 | 3 | 0.21 | 0.21 | 3.49 | 4 | 0.101 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 2.49 | 3 | 0.02 | 0.02 | 2.51 | 3 | 0.135 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 69.97 | 70 | 12.82 | 13.00 | 82.80 | 83 | 0.75 | 1 | 0.75 | 1 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicat | 6/26/2007 | SO | 89 | | | | | | | | | | 1 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 24.28 | 24 | 3.62 | 3.60 | 27.90 | 28 | 0.29 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 5.61 | 6 | 0.25 | 0.25 | 5.86 | 6 | 0.4 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 7.77 | 8 | 1.16 | 1.20 | 8.93 | 9 | 0.38 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicat | 6/29/2007 | SO | 93 | | | | | | | | | | 1 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 10.52 | 11 | 3.18 | 3.20 | 13.70 | 14 | 0.117 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 26.87 | 27 | 13.61 | 14.00 | 40.49 | 40 | 0.428 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 34.58 | 35 | 4.98 | 5.00 | 39.56 | 40 | 0.314 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 10.50 | 11 | 2.39 | 2.40 | 12.89 | 13 | 0.752 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 9.04 | 9 | 1.96 | 2.00 | 11.00 | 11 | 0.14 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 1.79 | 2 | 1.58 | 1.60 | 3.36 | 3 | 0.155 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 72.39 | 72 | 15.37 | 15.00 | 87.76 | 88 | 0.441 | 1 | 0.441 | 1 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 6.17 | 6 | 0.89 | 0.89 | 7.07 | 7 | 0.106 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 7.60 | 8 | 3.95 | 3.90 | 11.54 | 12 | 0.106 | 0 | 0 | 1 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 14.36 | 14 | 4.69 | 4.70 | 19.06 | 19 | 0.136 | 1 | 0.136 | 1 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 31.14 | 31 | 7.55 | 7.60 | 38.69 | 39 | 0.137 | 1 | 0.137 | 1 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16.62 | 17 | 15.25 | 15.00 | 31.87 | 32 | 0.147 | 0 | 0 | 1 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 20.63 | 21 | 6.50 | 6.50 | 27.12 | 27 | 0.126 | 0 | 0 | 1 |
| | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 4.16 | 4 | 1.75 | 1.70 | 5.90 | 6 | 0.321 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 1.18 | 1 | 0.57 | 0.57 | 1.76 | 2 | 0.308 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 7.43 | 7 | 0.83 | 0.83 | 8.26 | 8 | 0.455 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 2.97 | 3 | 1.63 | 1.60 | 4.61 | 5 | 0.165 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 1.82 | 2 | 1.42 | 1.40 | 3.23 | 3 | 0.195 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 1.62 | 2 | 0.91 | 0.91 | 2.53 | 3 | 0.116 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 1.52 | 2 | 1.24 | 1.20 | 2.76 | 3 | 0.138 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.23 | 0 | 0.23 | 0.23 | 0.46 | 0 | 0.187 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 3.28 | 3 | 2.45 | 2.40 | 5.73 | 6 | 0.129 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 2.61 | 3 | 0.82 | 0.82 | 3.43 | 3 | 0.151 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 1.85 | 2 | 0.80 | 0.80 | 2.65 | 3 | 0.21 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 2.43 | 2 | 0.88 | 0.88 | 3.31 | 3 | 0.0722 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 2.56 | 3 | 1.50 | 1.50 | 4.07 | 4 | 0.119 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 2.55 | 3 | 1.17 | 1.20 | 3.71 | 4 | 0.119 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | 0.26 | 0.26 | 0.26 | 0 | | | | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 1.67 | 2 | 0.96 | 0.96 | 2.63 | 3 | 0.199 | 1 | 0.199 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.38 | 0 | 0.48 | 0.48 | 0.86 | 1 | 0.188 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.58 | 1 | 0.26 | 0.26 | 0.84 | 1 | 0.184 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.52 | 1 | 0.21 | 0.21 | 0.73 | 1 | 0.134 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 2.94 | 3 | 2.25 | 2.20 | 5.19 | 5 | 0.327 | 1 | 0.327 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Bird PCDD/PCDF TEQ | Bird PCDD/PCDF TEQ (2 sig figs) | Bird DL-PCB TEQ | Bird DL-PCB TEQ (2 sig figs) | Bird Total TEQ | Bird Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 1.93 | 2 | 0.34 | 0.34 | 2.27 | 2 | 0.103 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.70 | 1 | 0.23 | 0.23 | 0.92 | 1 | 0.16 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 1.38 | 1 | 1.04 | 1.00 | 2.42 | 2 | 0.262 | 1 | 0.262 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 3.40 | 3 | 0.66 | 0.66 | 4.06 | 4 | 0.232 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 2.16 | 2 | 1.20 | 1.20 | 3.36 | 3 | 0.372 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 1.63 | 2 | 2.09 | 2.10 | 3.72 | 4 | 1.38 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 3.22 | 3 | 0.39 | 0.39 | 3.61 | 4 | 0.346 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 5.87 | 6 | 1.17 | 1.20 | 7.03 | 7 | 0.383 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.92 | 1 | 1.53 | 1.50 | 2.45 | 3 | 0.411 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.95 | 1 | 0.23 | 0.23 | 1.18 | 1 | 0.109 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 1.51 | 2 | 0.39 | 0.39 | 1.90 | 2 | 0.18 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 1.59 | 2 | 1.56 | 1.60 | 3.15 | 3 | 0.193 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 1.97 | 2 | 0.23 | 0.23 | 2.20 | 2 | 0.389 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 1.86 | 2 | 1.49 | 1.50 | 3.35 | 3 | 0.187 | 1 | 0.187 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 1.36 | 1 | 0.68 | 0.68 | 2.04 | 2 | 0.212 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 2.39 | 2 | 1.74 | 1.70 | 4.13 | 4 | 0.186 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 2.95 | 3 | 1.63 | 1.60 | 4.59 | 5 | 0.16 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | | | | | | | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 2.19 | 2 | 1.62 | 1.60 | 3.81 | 4 | 0.178 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 1.68 | 2 | 2.03 | 2.00 | 3.71 | 4 | 0.244 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 2.87 | 3 | 1.26 | 1.30 | 4.12 | 4 | 0.247 | 1 | 0.247 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 6.80 | 7 | 0.92 | 0.92 | 7.72 | 8 | 0.59 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 4.11 | 4 | 1.63 | 1.60 | 5.75 | 6 | 0.543 | 1 | 0.543 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 7.39 | 7 | 0.23 | 0.23 | 7.61 | 8 | 0.443 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 10.25 | 10 | 0.98 | 0.98 | 11.22 | 11 | 0.179 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 12.38 | 12 | 0.70 | 0.70 | 13.08 | 13 | 1.81 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 6.74 | 7 | 0.35 | 0.35 | 7.09 | 7 | 0.322 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6.18 | 6 | 0.44 | 0.44 | 6.62 | 7 | 0.916 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 6.13 | 6 | 0.78 | 0.78 | 6.90 | 7 | 0.229 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 3.33 | 3 | 0.84 | 0.84 | 4.16 | 4 | 0.641 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 9.81 | 10 | 0.69 | 0.69 | 10.50 | 10 | 5.48 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 2.60 | 3 | 0.21 | 0.21 | 2.81 | 3 | 0.874 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 2.87 | 3 | 0.95 | 0.95 | 3.82 | 4 | 0.549 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 11.88 | 12 | 0.56 | 0.56 | 12.44 | 12 | 0.518 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | 0.54 | 0.54 | 0.54 | 1 | | | | 1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8.89 | 9 | 1.17 | 1.20 | 10.06 | 10 | 0.914 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.82 | 2 | 1.14 | 1.10 | 2.95 | 3 | 0.54 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 10.79 | 11 | 0.76 | 0.76 | 11.55 | 12 | 0.765 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 7.38 | 7 | 0.70 | 0.70 | 8.08 | 8 | 0.533 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3.43 | 3 | 0.66 | 0.66 | 4.09 | 4 | 0.717 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 2.97 | 3 | 0.34 | 0.34 | 3.31 | 3 | 1.03 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 2.96 | 3 | 0.45 | 0.45 | 3.41 | 3 | 0.632 | 0 | 0 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Bird PCDD/PCDF TEQ | Bird PCDD/PCDF TEQ (2 sig figs) | Bird DL-PCB TEQ | Bird DL-PCB TEQ (2 sig figs) | Bird Total TEQ | Bird Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 25.32 | 25 | 2.22 | 2.20 | 27.54 | 28 | 0.97 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 37.51 | 38 | 1.60 | 1.60 | 39.11 | 39 | 1.47 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 2.75 | 3 | 0.51 | 0.51 | 3.26 | 3 | 0.733 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 4.88 | 5 | 1.63 | 1.60 | 6.52 | 7 | 13.9 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 9.59 | 10 | 0.38 | 0.38 | 9.97 | 10 | 1.08 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 1.65 | 2 | 0.72 | 0.72 | 2.37 | 2 | 0.168 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6.46 | 7 | 0.78 | 0.78 | 7.23 | 7 | 0.183 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.80 | 1 | 0.06 | 0.06 | 0.86 | 1 | 0.25 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.14 | 0 | | | 0.14 | 0 | 0.14 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.44 | 0 | 0.05 | 0.05 | 0.49 | 0 | 0.15 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.01 | 0 | | | 0.01 | 0 | 0.092 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1.09 | 1 | 0.12 | 0.12 | 1.21 | 1 | 0.22 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.17 | 0 | 0.00 | 0.00 | 0.17 | 0 | 0.126 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 2.43 | 2 | 0.31 | 0.31 | 2.73 | 3 | 0.376 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 2.94 | 3 | 0.38 | 0.38 | 3.33 | 3 | 0.39 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.54 | 1 | 0.00 | 0.00 | 0.55 | 1 | 0.123 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | | | | | | | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 2.49 | 3 | 0.08 | 0.08 | 2.58 | 3 | 0.6 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.93 | 1 | 0.08 | 0.08 | 1.01 | 1 | 0.24 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.44 | 0 | 0.04 | 0.04 | 0.48 | 0 | 0.2 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 59.04 | 59 | 2.09 | 2.10 | 61.12 | 61 | 0.73 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.15 | 0 | | | 0.15 | 0 | 0.21 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.23 | 0 | | | 0.23 | 0 | 0.18 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.31 | 0 | 0.05 | 0.05 | 0.36 | 0 | 0.101 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.23 | 0 | 0.00 | 0.00 | 0.23 | 0 | 0.135 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 36.55 | 37 | 1.39 | 1.40 | 37.94 | 38 | 0.75 | 1 | 0.75 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicat | 6/26/2007 | SO | 89 | | | | | | | | | | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 16.25 | 16 | 0.43 | 0.43 | 16.68 | 17 | 0.29 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 3.49 | 4 | 0.06 | 0.06 | 3.55 | 4 | 0.4 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 4.00 | 4 | 0.12 | 0.12 | 4.12 | 4 | 0.38 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicat | 6/29/2007 | SO | 93 | | | | | | | | | | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1.77 | 2 | 0.38 | 0.38 | 2.15 | 2 | 0.117 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 47.74 | 48 | 1.34 | 1.30 | 49.08 | 49 | 0.428 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 2.76 | 3 | 0.52 | 0.52 | 3.27 | 3 | 0.314 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 1.82 | 2 | 0.26 | 0.26 | 2.08 | 2 | 0.752 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 1.53 | 2 | 0.21 | 0.21 | 1.74 | 2 | 0.14 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 1.16 | 1 | 0.13 | 0.13 | 1.29 | 1 | 0.155 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 6.96 | 7 | 1.74 | 1.70 | 8.70 | 9 | 0.441 | 1 | 0.441 | 1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.54 | 1 | 0.08 | 0.08 | 0.62 | 1 | 0.106 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.76 | 1 | 0.42 | 0.42 | 1.18 | 1 | 0.106 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 1.24 | 1 | 0.51 | 0.51 | 1.75 | 2 | 0.136 | 1 | 0.136 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 3.06 | 3 | 0.87 | 0.87 | 3.93 | 4 | 0.137 | 1 | 0.137 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Bird PCDD/PCDF TEQ | Bird PCDD/PCDF TEQ (2 sig figs) | Bird DL-PCB TEQ | Bird DL-PCB TEQ (2 sig figs) | Bird Total TEQ | Bird Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 1.40 | 1 | 1.76 | 1.80 | 3.16 | 3 | 0.147 | 0 | 0 | 1 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 1.95 | 2 | 0.65 | 0.65 | 2.60 | 3 | 0.126 | 0 | 0 | 1 |
| | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 5.44 | 5 | 0.48 | 0.48 | 5.92 | 6 | 0.321 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 1.56 | 2 | 0.16 | 0.16 | 1.71 | 2 | 0.308 | 0 | 0 | 1 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 9.23 | 9 | 0.24 | 0.24 | 9.48 | 10 | 0.455 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 4.30 | 4 | 0.47 | 0.47 | 4.78 | 5 | 0.165 | 0 | 0 | 1 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 2.65 | 3 | 0.41 | 0.41 | 3.06 | 3 | 0.195 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 2.42 | 2 | 0.26 | 0.26 | 2.68 | 3 | 0.116 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 2.17 | 2 | 0.37 | 0.37 | 2.54 | 3 | 0.138 | 0 | 0 | 1 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.31 | 0 | 0.07 | 0.07 | 0.38 | 0 | 0.187 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 4.70 | 5 | 0.72 | 0.72 | 5.42 | 5 | 0.129 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 3.60 | 4 | 0.23 | 0.23 | 3.83 | 4 | 0.151 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 2.57 | 3 | 49.87 | 50.00 | 52.44 | 52 | 0.21 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 3.23 | 3 | 52.98 | 53.00 | 56.21 | 56 | 0.0722 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 3.53 | 4 | 87.30 | 87.00 | 90.83 | 91 | 0.119 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 3.58 | 4 | 62.38 | 62.00 | 65.96 | 66 | 0.119 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | 0.08 | 0.08 | 0.08 | 0 | | | | 1 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 2.40 | 2 | 0.27 | 0.27 | 2.66 | 3 | 0.199 | 1 | 0.199 | 1 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.55 | 1 | 0.14 | 0.14 | 0.69 | 1 | 0.188 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.77 | 1 | 0.08 | 0.08 | 0.85 | 1 | 0.184 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.71 | 1 | 0.06 | 0.06 | 0.78 | 1 | 0.134 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 4.49 | 5 | 0.61 | 0.61 | 5.10 | 5 | 0.327 | 1 | 0.327 | 1 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 2.75 | 3 | 0.10 | 0.10 | 2.85 | 3 | 0.103 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 1.01 | 1 | 0.06 | 0.06 | 1.07 | 1 | 0.16 | 0 | 0 | 1 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 2.07 | 2 | 0.30 | 0.30 | 2.38 | 2 | 0.262 | 1 | 0.262 | 1 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 4.40 | 4 | 0.18 | 0.18 | 4.58 | 5 | 0.232 | 0 | 0 | 1 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 3.02 | 3 | 0.35 | 0.35 | 3.37 | 3 | 0.372 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 2.45 | 3 | 0.56 | 0.56 | 3.02 | 3 | 1.38 | 0 | 0 | 1 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 4.49 | 5 | 0.12 | 0.12 | 4.61 | 5 | 0.346 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 7.64 | 8 | 0.32 | 0.32 | 7.96 | 8 | 0.383 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 1.56 | 2 | 0.42 | 0.42 | 1.98 | 2 | 0.411 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 1.35 | 1 | 0.07 | 0.07 | 1.42 | 1 | 0.109 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 2.18 | 2 | 0.12 | 0.12 | 2.30 | 2 | 0.18 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 2.28 | 2 | 0.47 | 0.47 | 2.75 | 3 | 0.193 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 2.57 | 3 | 0.07 | 0.07 | 2.64 | 3 | 0.389 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 2.83 | 3 | 0.41 | 0.41 | 3.24 | 3 | 0.187 | 1 | 0.187 | 1 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 1.93 | 2 | 0.19 | 0.19 | 2.12 | 2 | 0.212 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 3.42 | 3 | 0.50 | 0.50 | 3.92 | 4 | 0.186 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 4.37 | 4 | 0.46 | 0.46 | 4.84 | 5 | 0.16 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | | | | | | | 1 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 3.12 | 3 | 0.47 | 0.47 | 3.59 | 4 | 0.178 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 2.30 | 2 | 0.60 | 0.60 | 2.90 | 3 | 0.244 | 0 | 0 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Bird PCDD/PCDF TEQ | Bird PCDD/PCDF TEQ (2 sig figs) | Bird DL-PCB TEQ | Bird DL-PCB TEQ (2 sig figs) | Bird Total TEQ | Bird Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 4.14 | 4 | 0.36 | 0.36 | 4.50 | 5 | 0.247 | 1 | 0.247 | 1 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 9.12 | 9 | 0.27 | 0.27 | 9.39 | 9 | 0.59 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 6.20 | 6 | 0.43 | 0.43 | 6.63 | 7 | 0.543 | 1 | 0.543 | 1 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 9.07 | 9 | 110.20 | 110.00 | 119.27 | 120 | 0.443 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 12.34 | 12 | 0.27 | 0.27 | 12.61 | 13 | 0.179 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 16.90 | 17 | 0.20 | 0.20 | 17.10 | 17 | 1.81 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 8.31 | 8 | 0.10 | 0.10 | 8.41 | 8 | 0.322 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 7.71 | 8 | 0.12 | 0.12 | 7.83 | 8 | 0.916 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 9.14 | 9 | 0.23 | 0.23 | 9.37 | 9 | 0.229 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 4.74 | 5 | 0.23 | 0.23 | 4.97 | 5 | 0.641 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 11.67 | 12 | 0.21 | 0.21 | 11.89 | 12 | 5.48 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 3.19 | 3 | 0.07 | 0.07 | 3.27 | 3 | 0.874 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 3.65 | 4 | 0.29 | 0.29 | 3.94 | 4 | 0.549 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 17.09 | 17 | 0.16 | 0.16 | 17.25 | 17 | 0.518 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | 0.16 | 0.16 | 0.16 | 0 | | | | 1 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 10.96 | 11 | 0.32 | 0.32 | 11.28 | 11 | 0.914 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.56 | 2 | 0.36 | 0.36 | 1.92 | 2 | 0.54 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 13.77 | 14 | 0.22 | 0.22 | 14.00 | 14 | 0.765 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 9.27 | 9 | 0.20 | 0.20 | 9.47 | 10 | 0.533 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 5.02 | 5 | 0.20 | 0.20 | 5.22 | 5 | 0.717 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3.67 | 4 | 0.10 | 0.10 | 3.77 | 4 | 1.03 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4.28 | 4 | 0.14 | 0.14 | 4.42 | 4 | 0.632 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 32.26 | 32 | 0.60 | 0.60 | 32.85 | 33 | 0.97 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 47.55 | 48 | 0.47 | 0.47 | 48.03 | 48 | 1.47 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 3.78 | 4 | 0.15 | 0.15 | 3.93 | 4 | 0.733 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 12.83 | 13 | 0.45 | 0.45 | 13.28 | 13 | 13.9 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 11.86 | 12 | 0.11 | 0.11 | 11.96 | 12 | 1.08 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 2.39 | 2 | 0.22 | 0.22 | 2.61 | 3 | 0.168 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6.55 | 7 | 0.22 | 0.22 | 6.77 | 7 | 0.183 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1.11 | 1 | 0.02 | 0.02 | 1.13 | 1 | 0.25 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.19 | 0 | | | 0.19 | 0 | 0.14 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.62 | 1 | 0.01 | 0.01 | 0.63 | 1 | 0.15 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.00 | 0 | | | 0.00 | 0 | 0.092 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1.61 | 2 | 8.42 | 8.40 | 10.03 | 10 | 0.22 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.19 | 0 | 0.00 | 0.00 | 0.19 | 0 | 0.126 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 2.65 | 3 | 0.09 | 0.09 | 2.74 | 3 | 0.376 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3.54 | 4 | 0.11 | 0.11 | 3.65 | 4 | 0.39 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.69 | 1 | 2.95 | 2.90 | 3.63 | 4 | 0.123 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | | | | | | | 1 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 2.98 | 3 | 6.23 | 6.20 | 9.21 | 9 | 0.6 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1.13 | 1 | 7.78 | 7.80 | 8.91 | 9 | 0.24 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.48 | 0 | 0.01 | 0.01 | 0.49 | 0 | 0.2 | 0 | 0 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Bird PCDD/PCDF TEQ | Bird PCDD/PCDF TEQ (2 sig figs) | Bird DL-PCB TEQ | Bird DL-PCB TEQ (2 sig figs) | Bird Total TEQ | Bird Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 74.38 | 74 | 137.08 | 140.00 | 211.46 | 210 | 0.73 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.15 | 0 | | | 0.15 | 0 | 0.21 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.25 | 0 | | | 0.25 | 0 | 0.18 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.43 | 0 | 18.63 | 19.00 | 19.05 | 19 | 0.101 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.31 | 0 | 0.00 | 0.00 | 0.31 | 0 | 0.135 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 47.28 | 47 | 613.12 | 610.00 | 660.40 | 660 | 0.75 | 1 | 0.75 | 1 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicat | 6/26/2007 | SO | 89 | | | | | | | | | | 1 |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 20.24 | 20 | 28.97 | 29.00 | 49.21 | 49 | 0.29 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 4.36 | 4 | 13.35 | 13.00 | 17.72 | 18 | 0.4 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 4.50 | 5 | 37.57 | 38.00 | 42.07 | 42 | 0.38 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicat | 6/29/2007 | SO | 93 | | | | | | | | | | 1 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 2.27 | 2 | 0.11 | 0.11 | 2.38 | 2 | 0.117 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 59.75 | 60 | 0.39 | 0.39 | 60.14 | 60 | 0.428 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4.19 | 4 | 0.15 | 0.15 | 4.33 | 4 | 0.314 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 2.07 | 2 | 0.07 | 0.07 | 2.15 | 2 | 0.752 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 1.74 | 2 | 0.06 | 0.06 | 1.80 | 2 | 0.14 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 1.06 | 1 | 0.04 | 0.04 | 1.10 | 1 | 0.155 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 9.80 | 10 | 0.48 | 0.48 | 10.27 | 10 | 0.441 | 1 | 0.441 | 1 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.79 | 1 | 0.02 | 0.03 | 0.81 | 1 | 0.106 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 1.08 | 1 | 0.12 | 0.12 | 1.20 | 1 | 0.106 | 0 | 0 | 1 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 1.78 | 2 | 0.15 | 0.15 | 1.94 | 2 | 0.136 | 1 | 0.136 | 1 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 4.42 | 4 | 0.24 | 0.24 | 4.66 | 5 | 0.137 | 1 | 0.137 | 1 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 1.95 | 2 | 0.48 | 0.48 | 2.44 | 2 | 0.147 | 0 | 0 | 1 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 2.66 | 3 | 0.19 | 0.19 | 2.85 | 3 | 0.126 | 0 | 0 | 1 |
| | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.00 | 0 | | | 0.00 | 0 | 0.097 | 0 | 0 | 1 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 104.35 | 100 | | | 104.35 | 100 | 1.1 | 0 | 0 | 1 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 1.04 | 1 | | | 1.04 | 1 | 0.17 | 0 | 0 | 1 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 48.85 | 49 | 3.24 | 3.20 | 52.09 | 52 | 0.247 | 0 | 0 | 1 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.42 | 9 | 1.20 | 1.20 | 10.62 | 11 | 0.104 | 0 | 0 | 1 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 3.07 | 3 | 1.00 | 1.00 | 4.06 | 4 | 0.103 | 0 | 0 | 1 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 14.19 | 14 | 3.42 | 3.40 | 17.61 | 18 | 0.147 | 1 | 0.147 | 1 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 52.97 | 53 | 3.39 | 3.40 | 56.36 | 56 | 0.5 | 1 | 0.5 | 1 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 20.44 | 20 | 2.63 | 2.60 | 23.07 | 23 | 0.2 | 0 | 0 | 1 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 15.39 | 15 | 1.95 | 2.00 | 17.34 | 17 | 0.103 | 0 | 0 | 1 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 0.07 | 0.07 | 0.07 | 0.07 | | | | 1 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.01 | 0.01 | 0.01 | 0.01 | | | | 1 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 0.67 | 0.67 | 0.67 | 0.67 | | | | 1 |
| | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.01 | 0 | | | 0.01 | 0 | 0.097 | 0 | 0 | 1 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 482.20 | 480 | | | 482.20 | 480 | 1.1 | 0 | 0 | 1 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 4.92 | 5 | | | 4.92 | 5 | 0.17 | 0 | 0 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Bird PCDD/PCDF TEQ | Bird PCDD/PCDF TEQ (2 sig figs) | Bird DL-PCB TEQ | Bird DL-PCB TEQ (2 sig figs) | Bird Total TEQ | Bird Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 232.30 | 230 | 9.74 | 9.70 | 242.04 | 240 | 0.247 | 0 | 0 | 1 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 43.18 | 43 | 3.05 | 3.10 | 46.23 | 46 | 0.104 | 0 | 0 | 1 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 12.28 | 12 | 3.21 | 3.20 | 15.49 | 15 | 0.103 | 0 | 0 | 1 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 67.88 | 68 | 8.90 | 8.90 | 76.78 | 77 | 0.147 | 1 | 0.147 | 1 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 254.03 | 250 | 10.56 | 11.00 | 264.59 | 260 | 0.5 | 1 | 0.5 | 1 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 96.70 | 97 | 7.56 | 7.60 | 104.27 | 100 | 0.2 | 0 | 0 | 1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 77.52 | 78 | 5.80 | 5.80 | 83.31 | 83 | 0.103 | 0 | 0 | 1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 0.12 | 0.12 | 0.12 | 0.12 | | | | 1 |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.02 | 0.02 | 0.02 | 0.02 | | | | 1 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 2.13 | 2.10 | 2.13 | 2.10 | | | | 1 |
| | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.00 | 0 | | | 0.00 | 0 | 0.097 | 0 | 0 | 1 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 83.61 | 84 | | | 83.61 | 84 | 1.1 | 0 | 0 | 1 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.90 | 1 | | | 0.90 | 1 | 0.17 | 0 | 0 | 1 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 42.74 | 43 | 5.42 | 5.40 | 48.15 | 48 | 0.247 | 0 | 0 | 1 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 7.87 | 8 | 1.87 | 1.90 | 9.74 | 10 | 0.104 | 0 | 0 | 1 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.04 | 2 | 1.70 | 1.70 | 3.74 | 4 | 0.103 | 0 | 0 | 1 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.02 | 12 | 5.38 | 5.40 | 17.40 | 17 | 0.147 | 1 | 0.147 | 1 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 44.95 | 45 | 5.75 | 5.70 | 50.70 | 51 | 0.5 | 1 | 0.5 | 1 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 17.37 | 17 | 4.31 | 4.30 | 21.68 | 22 | 0.2 | 0 | 0 | 1 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 14.06 | 14 | 3.24 | 3.20 | 17.30 | 17 | 0.103 | 0 | 0 | 1 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 0.11 | 0.11 | 0.11 | 0.11 | | | | 1 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.02 | 0.02 | 0.02 | 0.02 | | | | 1 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 1.15 | 1.20 | 1.15 | 1.20 | | | | 1 |
| | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.05 | 0 | | | 0.05 | 0 | 0.097 | 0 | 0 | 1 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 193.27 | 190 | | | 193.27 | 190 | 1.1 | 0 | 0 | 1 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2.06 | 2 | | | 2.06 | 2 | 0.17 | 0 | 0 | 1 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 88.98 | 89 | 124.49 | 120.00 | 213.48 | 210 | 0.247 | 0 | 0 | 1 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 16.44 | 16 | 42.32 | 42.00 | 58.76 | 59 | 0.104 | 0 | 0 | 1 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 5.53 | 6 | 39.30 | 39.00 | 44.83 | 45 | 0.103 | 0 | 0 | 1 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 25.70 | 26 | 122.21 | 120.00 | 147.91 | 150 | 0.147 | 1 | 0.147 | 1 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 96.56 | 97 | 132.41 | 130.00 | 228.97 | 230 | 0.5 | 1 | 0.5 | 1 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 36.47 | 36 | 98.61 | 99.00 | 135.08 | 140 | 0.2 | 0 | 0 | 1 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 28.30 | 28 | 74.21 | 74.00 | 102.51 | 100 | 0.103 | 0 | 0 | 1 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 2.67 | 2.70 | 2.67 | 2.70 | | | | 1 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.45 | 0.45 | 0.45 | 0.45 | | | | 1 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 26.69 | 27.00 | 26.69 | 27.00 | | | | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Bird PCDD/PCDF TEQ | Bird PCDD/PCDF TEQ (2 sig figs) | Bird DL-PCB TEQ | Bird DL-PCB TEQ (2 sig figs) | Bird Total TEQ | Bird Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.00 | 0 | | | 0.00 | 0 | 0.097 | 0 | 0 | 1 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 970.18 | 970 | | | 970.18 | 970 | 1.1 | 0 | 0 | 1 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 10.20 | 10 | | | 10.20 | 10 | 0.17 | 0 | 0 | 1 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 490.05 | 490 | 97.88 | 98.00 | 587.93 | 590 | 0.247 | 0 | 0 | 1 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 92.01 | 92 | 32.70 | 33.00 | 124.70 | 120 | 0.104 | 0 | 0 | 1 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 24.00 | 24 | 30.81 | 31.00 | 54.81 | 55 | 0.103 | 0 | 0 | 1 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 145.01 | 150 | 95.07 | 95.00 | 240.08 | 240 | 0.147 | 1 | 0.147 | 1 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 530.07 | 530 | 104.30 | 100.00 | 634.37 | 630 | 0.5 | 1 | 0.5 | 1 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 207.03 | 210 | 77.21 | 77.00 | 284.23 | 280 | 0.2 | 0 | 0 | 1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 163.02 | 160 | 58.09 | 58.00 | 221.11 | 220 | 0.103 | 0 | 0 | 1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 2.44 | 2.40 | 2.44 | 2.40 | | | | 1 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.41 | 0.41 | 0.41 | 0.41 | | | | 1 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 21.25 | 21.00 | 21.25 | 21.00 | | | | 1 |
| | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.00 | 0 | | | 0.00 | 0 | 0.097 | 0 | 0 | 1 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 618.77 | 620 | | | 618.77 | 620 | 1.1 | 0 | 0 | 1 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 6.14 | 6 | | | 6.14 | 6 | 0.17 | 0 | 0 | 1 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 292.50 | 290 | 81.91 | 82.00 | 374.41 | 370 | 0.247 | 0 | 0 | 1 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 56.41 | 56 | 27.21 | 27.00 | 83.62 | 84 | 0.104 | 0 | 0 | 1 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 18.23 | 18 | 25.84 | 26.00 | 44.08 | 44 | 0.103 | 0 | 0 | 1 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 119.66 | 120 | 79.20 | 79.00 | 198.86 | 200 | 0.147 | 1 | 0.147 | 1 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 433.12 | 430 | 87.38 | 87.00 | 520.50 | 520 | 0.5 | 1 | 0.5 | 1 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 121.00 | 120 | 64.52 | 65.00 | 185.52 | 190 | 0.2 | 0 | 0 | 1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 93.94 | 94 | 49.07 | 49.00 | 143.01 | 140 | 0.103 | 0 | 0 | 1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 2.02 | 2.00 | 2.02 | 2.00 | | | | 1 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.34 | 0.34 | 0.34 | 0.34 | | | | 1 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 17.81 | 18.00 | 17.81 | 18.00 | | | | 1 |
| | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | | | | | | | 0.097 | 0 | 0 | 1 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 810.00 | 810 | | | 810.00 | 810 | 1.1 | 0 | 0 | 1 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 7.90 | 8 | | | 7.90 | 8 | 0.17 | 0 | 0 | 1 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 390.22 | 390 | 141.52 | 140.00 | 531.74 | 530 | 0.247 | 0 | 0 | 1 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 74.02 | 74 | 46.44 | 46.00 | 120.46 | 120 | 0.104 | 0 | 0 | 1 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 24.02 | 24 | 44.84 | 45.00 | 68.86 | 69 | 0.103 | 0 | 0 | 1 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 120.03 | 120 | 135.48 | 140.00 | 255.52 | 260 | 0.147 | 1 | 0.147 | 1 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 420.22 | 420 | 151.34 | 150.00 | 571.56 | 570 | 0.5 | 1 | 0.5 | 1 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 160.05 | 160 | 111.14 | 110.00 | 271.20 | 270 | 0.2 | 0 | 0 | 1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 120.07 | 120 | 83.87 | 84.00 | 203.95 | 200 | 0.103 | 0 | 0 | 1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 3.45 | 3.40 | 3.45 | 3.40 | | | | 1 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.58 | 0.58 | 0.58 | 0.58 | | | | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Bird PCDD/PCDF TEQ | Bird PCDD/PCDF TEQ (2 sig figs) | Bird DL-PCB TEQ | Bird DL-PCB TEQ (2 sig figs) | Bird Total TEQ | Bird Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 30.91 | 31.00 | 30.91 | 31.00 | | | | 1 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.00 | 0 | | | 0.00 | 0 | 0.097 | 0 | 0 | 1 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 87.25 | 87 | | | 87.25 | 87 | 1.1 | 0 | 0 | 1 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.98 | 1 | | | 0.98 | 1 | 0.17 | 0 | 0 | 1 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 43.54 | 44 | 25.22 | 25.00 | 68.76 | 69 | 0.247 | 0 | 0 | 1 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 7.77 | 8 | 8.32 | 8.30 | 16.09 | 16 | 0.104 | 0 | 0 | 1 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.70 | 2 | 7.87 | 7.90 | 9.57 | 10 | 0.103 | 0 | 0 | 1 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 11.97 | 12 | 24.38 | 24.00 | 36.34 | 36 | 0.147 | 1 | 0.147 | 1 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 45.85 | 46 | 26.88 | 27.00 | 72.73 | 73 | 0.5 | 1 | 0.5 | 1 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 19.11 | 19 | 19.84 | 20.00 | 38.95 | 39 | 0.2 | 0 | 0 | 1 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 15.64 | 16 | 14.89 | 15.00 | 30.53 | 31 | 0.103 | 0 | 0 | 1 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 0.76 | 0.76 | 0.76 | 0.76 | | | | 1 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.13 | 0.13 | 0.13 | 0.13 | | | | 1 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 5.55 | 5.50 | 5.55 | 5.50 | | | | 1 |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.00 | 0 | | | 0.00 | 0 | 0.097 | 0 | 0 | 1 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 145.35 | 150 | | | 145.35 | 150 | 1.1 | 0 | 0 | 1 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 1.81 | 2 | | | 1.81 | 2 | 0.17 | 0 | 0 | 1 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 80.47 | 80 | 86.87 | 87.00 | 167.34 | 170 | 0.247 | 0 | 0 | 1 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 13.75 | 14 | 28.42 | 28.00 | 42.17 | 42 | 0.104 | 0 | 0 | 1 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.99 | 2 | 27.52 | 28.00 | 29.51 | 30 | 0.103 | 0 | 0 | 1 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 22.05 | 22 | 83.00 | 83.00 | 105.05 | 110 | 0.147 | 1 | 0.147 | 1 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 86.20 | 86 | 92.93 | 93.00 | 179.13 | 180 | 0.5 | 1 | 0.5 | 1 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 34.77 | 35 | 68.17 | 68.00 | 102.94 | 100 | 0.2 | 0 | 0 | 1 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 30.40 | 30 | 51.45 | 51.00 | 81.85 | 82 | 0.103 | 0 | 0 | 1 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 2.16 | 2.20 | 2.16 | 2.20 | | | | 1 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.37 | 0.37 | 0.37 | 0.37 | | | | 1 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 19.01 | 19.00 | 19.01 | 19.00 | | | | 1 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.01 | 0 | | | 0.01 | 0 | 0.097 | 0 | 0 | 1 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 3689.08 | 3700 | | | 3689.08 | 3700 | 1.1 | 0 | 0 | 1 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 37.76 | 38 | | | 37.76 | 38 | 0.17 | 0 | 0 | 1 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1798.26 | 1800 | 54.25 | 54.00 | 1852.51 | 1900 | 0.247 | 0 | 0 | 1 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 344.25 | 340 | 17.96 | 18.00 | 362.21 | 360 | 0.104 | 0 | 0 | 1 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 110.16 | 110 | 16.93 | 17.00 | 127.09 | 130 | 0.103 | 0 | 0 | 1 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 533.03 | 530 | 52.57 | 53.00 | 585.60 | 590 | 0.147 | 1 | 0.147 | 1 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1901.05 | 1900 | 57.78 | 58.00 | 1958.83 | 2000 | 0.5 | 1 | 0.5 | 1 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 734.93 | 730 | 42.71 | 43.00 | 777.64 | 780 | 0.2 | 0 | 0 | 1 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 581.73 | 580 | 32.06 | 32.00 | 613.78 | 610 | 0.103 | 0 | 0 | 1 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 1.62 | 1.60 | 1.62 | 1.60 | | | | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Bird PCDD/PCDF TEQ | Bird PCDD/PCDF TEQ (2 sig figs) | Bird DL-PCB TEQ | Bird DL-PCB TEQ (2 sig figs) | Bird Total TEQ | Bird Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.27 | 0.27 | 0.27 | 0.27 | | | | 1 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 11.90 | 12.00 | 11.90 | 12.00 | | | | 1 |
| | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.00 | 0 | | | 0.00 | 0 | 0.097 | 0 | 0 | 1 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 828.78 | 830 | | | 828.78 | 830 | 1.1 | 0 | 0 | 1 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 8.94 | 9 | | | 8.94 | 9 | 0.17 | 0 | 0 | 1 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 422.50 | 420 | 84.78 | 85.00 | 507.28 | 510 | 0.247 | 0 | 0 | 1 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 78.41 | 78 | 28.15 | 28.00 | 106.56 | 110 | 0.104 | 0 | 0 | 1 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 20.23 | 20 | 26.72 | 27.00 | 46.95 | 47 | 0.103 | 0 | 0 | 1 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 141.66 | 140 | 81.98 | 82.00 | 223.64 | 220 | 0.147 | 1 | 0.147 | 1 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 528.12 | 530 | 90.43 | 90.00 | 618.55 | 620 | 0.5 | 1 | 0.5 | 1 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 178.00 | 180 | 66.78 | 67.00 | 244.78 | 240 | 0.2 | 0 | 0 | 1 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 143.94 | 140 | 50.61 | 51.00 | 194.56 | 190 | 0.103 | 0 | 0 | 1 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 2.13 | 2.10 | 2.13 | 2.10 | | | | 1 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.36 | 0.36 | 0.36 | 0.36 | | | | 1 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 18.45 | 18.00 | 18.45 | 18.00 | | | | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 1.11 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 0.705 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 0.977 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 0.61 | 1 | 0.61 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 0.618 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 0.507 | 1 | 0.507 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 0.597 | 1 | 0.597 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 0.148 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 0.555 | 1 | 0.555 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 0.456 | 1 | 0.456 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 0.57 | 1 | 0.57 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 0.46 | 1 | 0.46 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 0.481 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 0.6 | 1 | 0.6 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 0.5 | 1 | 0.5 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 0.464 | 1 | 0.464 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 0.349 | 1 | 0.349 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 0.283 | 1 | 0.283 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 1.32 | 1 | 1.32 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 0.38 | 1 | 0.38 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 0.42 | 1 | 0.42 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 0.909 | 1 | 0.909 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 0.6 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 0.614 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 0.985 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 0.502 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 1.06 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 0.676 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 0.378 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 0.64 | 1 | 0.64 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 0.547 | 1 | 0.547 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 1.16 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 0.436 | 1 | 0.436 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 0.401 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 0.677 | 1 | 0.677 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 0.727 | 1 | 0.727 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 0.585 | 1 | 0.585 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 1.36 | 1 | 1.36 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 1.09 | 0 | 0 | 1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 1.56 | 1 | 1.56 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 0.461 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 0.167 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 0.468 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 0.48 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 0.459 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 0.185 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 0.502 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 0.65 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 1.85 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 0.626 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 0.549 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 0.855 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 0.823 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 0.939 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 0.642 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 0.781 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 2.18 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 0.409 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 2.21 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 2.41 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 0.465 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 0.901 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 1.99 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 0.379 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 0.233 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 0.42 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 0.16 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 0.24 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 0.093 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 0.154 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 1.62 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 1.58 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 0.8 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 0.69 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 0.24 | 0 | 0 | 1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 0.19 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 0.0989 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 0.102 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 0.97 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 0.68 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 0.45 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 0.49 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 0.248 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 0.802 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 0.256 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 0.458 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 0.158 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 0.156 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 0.969 | 1 | 0.969 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 0.11 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 0.393 | 1 | 0.393 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 0.323 | 1 | 0.323 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 0.445 | 1 | 0.445 | 1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 0.544 | 1 | 0.544 | 1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 1.11 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 0.705 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 0.977 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 0.61 | 1 | 0.61 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 0.618 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 0.507 | 1 | 0.507 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 0.597 | 1 | 0.597 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 0.148 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 0.555 | 1 | 0.555 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 0.456 | 1 | 0.456 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 0.57 | 1 | 0.57 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 0.46 | 1 | 0.46 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 0.481 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 0.6 | 1 | 0.6 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 0.5 | 1 | 0.5 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 0.464 | 1 | 0.464 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 0.349 | 1 | 0.349 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 0.283 | 1 | 0.283 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 1.32 | 1 | 1.32 | 1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 0.38 | 1 | 0.38 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 0.42 | 1 | 0.42 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 0.909 | 1 | 0.909 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 0.6 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 0.614 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 0.985 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 0.502 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 1.06 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 0.676 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 0.378 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 0.64 | 1 | 0.64 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 0.547 | 1 | 0.547 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 1.16 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 0.436 | 1 | 0.436 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 0.401 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 0.677 | 1 | 0.677 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 0.727 | 1 | 0.727 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 0.585 | 1 | 0.585 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 1.36 | 1 | 1.36 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 1.09 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 1.56 | 1 | 1.56 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 0.461 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 0.167 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 0.468 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 0.48 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 0.459 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 0.185 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 0.502 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 0.65 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 1.85 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 0.626 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 0.549 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 0.855 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 0.823 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 0.939 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 0.642 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 0.781 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 2.18 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 0.409 | 0 | 0 | 1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 2.21 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 2.41 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 0.465 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 0.901 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 1.99 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 0.379 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 0.233 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 0.42 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 0.16 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 0.24 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 0.093 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 0.154 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 1.62 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 1.58 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 0.8 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 0.69 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 0.24 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 0.19 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 0.0989 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 0.102 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 0.97 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicat | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 0.68 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 0.45 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 0.49 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicat | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 0.248 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 0.802 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 0.256 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 0.458 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 0.158 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 0.156 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 0.969 | 1 | 0.969 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 0.11 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 0.393 | 1 | 0.393 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 0.323 | 1 | 0.323 | 1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 0.445 | 1 | 0.445 | 1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 0.544 | 1 | 0.544 | 1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.17580301 | 0 | 0 | 0 | 1.11 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.17580301 | 0 | 0 | 0 | 0.705 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.17580301 | 0 | 0 | 0 | 0.977 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.17580301 | 0 | 0 | 0 | 0.61 | 1 | 0.61 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.17580301 | 0 | 0 | 0 | 0.618 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.17580301 | 0 | 0 | 0 | 0.507 | 1 | 0.507 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.17580301 | 0 | 0 | 0 | 0.597 | 1 | 0.597 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.17580301 | 0 | 0 | 0 | 0.148 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.17580301 | 0 | 0 | 0 | 0.555 | 1 | 0.555 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.17580301 | 0 | 0 | 0 | 0.456 | 1 | 0.456 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.17580301 | 0 | 0 | 0 | 0.57 | 1 | 0.57 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.17580301 | 0 | 0 | 0 | 0.46 | 1 | 0.46 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.17580301 | 0 | 0 | 0 | 0.481 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.17580301 | 0 | 0 | 0 | 0.6 | 1 | 0.6 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.17580301 | | | | | | | 1 | 0 | | | |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.17580301 | 0.034984798 | 0.034984798 | 0.035 | 0.5 | 1 | 0.5 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.17580301 | 0 | 0 | 0 | 0.464 | 1 | 0.464 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.17580301 | 0 | 0 | 0 | 0.349 | 1 | 0.349 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.17580301 | 0 | 0 | 0 | 0.283 | 1 | 0.283 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.17580301 | 0.057487583 | 0.057487583 | 0.057 | 1.32 | 1 | 1.32 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.17580301 | 0 | 0 | 0 | 0.38 | 1 | 0.38 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.17580301 | 0 | 0 | 0 | 0.42 | 1 | 0.42 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.17580301 | 0.046060388 | 0.046060388 | 0.046 | 0.909 | 1 | 0.909 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.17580301 | 0 | 0 | 0 | 0.6 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.17580301 | 0 | 0 | 0 | 0.614 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.17580301 | 0 | 0 | 0 | 0.985 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0.17580301 | 0 | 0 | 0 | 0.502 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.17580301 | 0 | 0 | 0 | 1.06 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.17580301 | 0 | 0 | 0 | 0.676 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.17580301 | 0 | 0 | 0 | 0.378 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.17580301 | 0 | 0 | 0 | 0.64 | 1 | 0.64 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.17580301 | 0 | 0 | 0 | 0.547 | 1 | 0.547 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.17580301 | 0 | 0 | 0 | 1.16 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.17580301 | 0.032875162 | 0.032875162 | 0.033 | 0.436 | 1 | 0.436 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.17580301 | 0 | 0 | 0 | 0.401 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.17580301 | 0 | 0 | 0 | 0.677 | 1 | 0.677 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.17580301 | 0 | 0 | 0 | 0.727 | 1 | 0.727 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0.17580301 | | | | | | | 1 | 0 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.17580301 | 0 | 0 | 0 | 0.585 | 1 | 0.585 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.17580301 | 0 | 0 | 0 | 1.36 | 1 | 1.36 | 1 | 0 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 0.17580301 | 0.043423343 | 0.043423343 | 0.043 | 1.02 | 1 | 1.02 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.17580301 | 0 | 0 | 0 | 1.09 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.17580301 | 0.095461033 | 0.095461033 | 0.095 | 1.56 | 1 | 1.56 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.17580301 | 0 | 0 | 0 | 0.461 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.17580301 | 0 | 0 | 0 | 0.167 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.17580301 | 0 | 0 | 0 | 0.468 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.17580301 | 0 | 0 | 0 | 0.48 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.17580301 | 0 | 0 | 0 | 0.459 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.17580301 | 0 | 0 | 0 | 0.185 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.17580301 | 0 | 0 | 0 | 0.502 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.17580301 | 0 | 0 | 0 | 0.65 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.17580301 | 0 | 0 | 0 | 1.85 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.17580301 | 0 | 0 | 0 | 0.626 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.17580301 | 0 | 0 | 0 | 0.549 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.17580301 | | | | | | | 1 | 0 | | | |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.17580301 | 0 | 0 | 0 | 0.855 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.17580301 | 0 | 0 | 0 | 0.823 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.17580301 | 0 | 0 | 0 | 0.939 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.17580301 | 0 | 0 | 0 | 0.642 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.17580301 | 0 | 0 | 0 | 0.781 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.17580301 | 0 | 0 | 0 | 2.18 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.17580301 | 0 | 0 | 0 | 0.409 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.17580301 | 0 | 0 | 0 | 2.21 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.17580301 | 0 | 0 | 0 | 2.41 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.17580301 | 0 | 0 | 0 | 0.465 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.17580301 | 0 | 0 | 0 | 0.901 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.17580301 | 0 | 0 | 0 | 1.99 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.17580301 | 0 | 0 | 0 | 0.379 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.17580301 | 0 | 0 | 0 | 0.233 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.17580301 | 0 | 0 | 0 | 0.42 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.17580301 | 0 | 0 | 0 | 0.16 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.17580301 | 0 | 0 | 0 | 0.24 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.17580301 | 0 | 0 | 0 | 0.093 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.17580301 | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.17580301 | 0 | 0 | 0 | 0.154 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.17580301 | 0 | 0 | 0 | 1.62 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.17580301 | 0 | 0 | 0 | 1.58 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.17580301 | 0 | 0 | 0 | 0.12 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | 0.17580301 | | | | | | | 1 | 0 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.17580301 | 0 | 0 | 0 | 0.8 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.17580301 | 0 | 0 | 0 | 0.51 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.17580301 | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.17580301 | 0 | 0 | 0 | 0.69 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.17580301 | 0 | 0 | 0 | 0.24 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.17580301 | 0 | 0 | 0 | 0.19 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.17580301 | 0 | 0 | 0 | 0.0989 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.17580301 | 0 | 0 | 0 | 0.102 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.17580301 | 0.131852256 | 0.131852256 | 0.13 | 0.97 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicat | 6/26/2007 | SO | 89 | 0.17580301 | | | | | | | 1 | 0 | | | |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.17580301 | 0 | 0 | 0 | 0.68 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.17580301 | 0 | 0 | 0 | 0.45 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.17580301 | 0 | 0 | 0 | 0.49 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicat | 6/29/2007 | SO | 93 | 0.17580301 | | | | | | | 1 | 0 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.17580301 | 0 | 0 | 0 | 0.248 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.17580301 | 0 | 0 | 0 | 0.802 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.17580301 | 0 | 0 | 0 | 0.256 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.17580301 | 0 | 0 | 0 | 0.458 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.17580301 | 0 | 0 | 0 | 0.158 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.17580301 | 0 | 0 | 0 | 0.156 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.17580301 | 0.077529126 | 0.077529126 | 0.078 | 0.969 | 1 | 0.969 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.17580301 | 0 | 0 | 0 | 0.11 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.17580301 | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.17580301 | 0.023909209 | 0.023909209 | 0.024 | 0.393 | 1 | 0.393 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.17580301 | 0.024085012 | 0.024085012 | 0.024 | 0.323 | 1 | 0.323 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.17580301 | 0 | 0 | 0 | 0.445 | 1 | 0.445 | 1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.17580301 | 0 | 0 | 0 | 0.544 | 1 | 0.544 | 1 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 215.47702 | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 215.47702 | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 215.47702 | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 215.47702 | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 215.47702 | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 215.47702 | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 215.47702 | 31.67512195 | 31.67512195 | 32 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 215.47702 | 107.73851 | 107.73851 | 110 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 215.47702 | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 215.47702 | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | 215.47702 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 215.47702 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 215.47702 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 215.47702 | | | | | | | 1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 4.77272727 | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 4.77272727 | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 4.77272727 | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 4.77272727 | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 4.77272727 | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 4.77272727 | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.77272727 | 0.701590909 | 0.701590909 | 0.7 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 4.77272727 | 2.386363636 | 2.386363636 | 2.4 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 4.77272727 | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 4.77272727 | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | 4.77272727 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 4.77272727 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 4.77272727 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 4.77272727 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 150.833914 | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 150.833914 | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 150.833914 | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 150.833914 | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 150.833914 | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 150.833914 | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 150.833914 | 22.17258537 | 22.17258537 | 22 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 150.833914 | 75.41695703 | 75.41695703 | 75 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 150.833914 | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 150.833914 | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 150.833914 | | | | | | | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 150.833914 | | | | | | | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 150.833914 | | | | | | | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 150.833914 | | | | | | | 1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.8 | 1 | 0.8 | 0.05 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.01 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.9 | 1 | 0.9 | 0.05 | NA | 0 | 0 | 0 | 4.2 | 1 | 4.2 | 0.01 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 1.3 | 1 | 1.3 | 0.05 | NA | 0 | 0 | 0 | 4.5 | 1 | 4.5 | 0.01 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.81 | 1 | 0.81 | 0.05 | NA | 0 | 0 | 0 | 2.65 | 1 | 2.65 | 0.01 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 1.13 | 1 | 1.13 | 0.05 | NA | 0 | 0 | 0 | 3.33 | 1 | 3.33 | 0.01 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 1.07 | 1 | 1.07 | 0.05 | NA | 0 | 0 | 0 | 2.16 | 1 | 2.16 | 0.01 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 1.18 | 1 | 1.18 | 0.05 | NA | 0 | 0 | 0 | 3.52 | 1 | 3.52 | 0.01 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.276 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.49 | 1 | 0.49 | 0.01 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 1.19 | 1 | 1.19 | 0.05 | NA | 0 | 0 | 0 | 2.44 | 1 | 2.44 | 0.01 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 1.18 | 1 | 1.18 | 0.05 | NA | 0 | 0 | 0 | 2.36 | 1 | 2.36 | 0.01 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.99 | 1 | 0.99 | 0.05 | NA | 0 | 0 | 0 | 2.82 | 1 | 2.82 | 0.01 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 1.13 | 1 | 1.13 | 0.05 | NA | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.01 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 1.13 | 1 | 1.13 | 0.05 | NA | 0 | 0 | 0 | 2.41 | 1 | 2.41 | 0.01 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 1.32 | 1 | 1.32 | 0.05 | NA | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.01 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.8 | 1 | 0.8 | 0.05 | NA | 0 | 0 | 0 | 2.04 | 0 | 0 | 0.01 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1.16 | 1 | 1.16 | 0.05 | NA | 0 | 0 | 0 | 3.39 | 1 | 3.39 | 0.01 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.66 | 1 | 0.66 | 0.05 | NA | 0 | 0 | 0 | 1.16 | 1 | 1.16 | 0.01 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.507 | 1 | 0.507 | 0.05 | NA | 0 | 0 | 0 | 0.996 | 1 | 0.996 | 0.01 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 2.14 | 1 | 2.14 | 0.05 | NA | 0 | 0 | 0 | 7.01 | 1 | 7.01 | 0.01 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 1.14 | 1 | 1.14 | 0.05 | NA | 0 | 0 | 0 | 2.03 | 0 | 0 | 0.01 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.792 | 1 | 0.792 | 0.05 | NA | 0 | 0 | 0 | 1.5 | 1 | 1.5 | 0.01 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 1.9 | 1 | 1.9 | 0.05 | NA | 0 | 0 | 0 | 3.85 | 1 | 3.85 | 0.01 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.672 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 1.26 | 1 | 1.26 | 0.01 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.445 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.95 | 0 | 0 | 0.01 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 1.52 | 1 | 1.52 | 0.05 | NA | 0 | 0 | 0 | 3.41 | 1 | 3.41 | 0.01 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0.896 | 1 | 0.896 | 0.05 | NA | 0 | 0 | 0 | 1.53 | 0 | 0 | 0.01 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 1.23 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.64 | 1 | 3.64 | 0.01 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 1.2 | 1 | 1.2 | 0.05 | NA | 0 | 0 | 0 | 5.39 | 1 | 5.39 | 0.01 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.672 | 1 | 0.672 | 0.05 | NA | 0 | 0 | 0 | 1.43 | 1 | 1.43 | 0.01 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.998 | 1 | 0.998 | 0.05 | NA | 0 | 0 | 0 | 2.98 | 1 | 2.98 | 0.01 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.87 | 1 | 0.87 | 0.05 | NA | 0 | 0 | 0 | 3.2 | 1 | 3.2 | 0.01 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 2.53 | 1 | 2.53 | 0.05 | NA | 0 | 0 | 0 | 17.6 | 1 | 17.6 | 0.01 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.729 | 1 | 0.729 | 0.05 | NA | 0 | 0 | 0 | 2.56 | 1 | 2.56 | 0.01 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.842 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.01 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 1.24 | 1 | 1.24 | 0.05 | NA | 0 | 0 | 0 | 3.15 | 1 | 3.15 | 0.01 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 1.09 | 1 | 1.09 | 0.05 | NA | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.01 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 1.05 | 1 | 1.05 | 0.05 | NA | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.01 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 2.8 | 1 | 2.8 | 0.05 | NA | 0 | 0 | 0 | 6.08 | 1 | 6.08 | 0.01 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 1.57 | 1 | 1.57 | 0.05 | NA | 0 | 0 | 0 | 5.28 | 1 | 5.28 | 0.01 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 1.15 | 1 | 1.15 | 0.05 | NA | 0 | 0 | 0 | 4.02 | 1 | 4.02 | 0.01 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 2.63 | 1 | 2.63 | 0.05 | NA | 0 | 0 | 0 | 7.57 | 1 | 7.57 | 0.01 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.847 | 1 | 0.847 | 0.05 | NA | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.01 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 1.84 | 1 | 1.84 | 0.05 | NA | 0 | 0 | 0 | 7 | 1 | 7 | 0.01 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 1.66 | 1 | 1.66 | 0.05 | NA | 0 | 0 | 0 | 6.64 | 1 | 6.64 | 0.01 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.739 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.19 | 1 | 3.19 | 0.01 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.426 | 1 | 0.426 | 0.05 | NA | 0 | 0 | 0 | 2.14 | 1 | 2.14 | 0.01 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.24 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 6.79 | 1 | 6.79 | 0.01 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 1.77 | 1 | 1.77 | 0.05 | NA | 0 | 0 | 0 | 4.19 | 1 | 4.19 | 0.01 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 1.31 | 1 | 1.31 | 0.05 | NA | 0 | 0 | 0 | 1.85 | 0 | 0 | 0.01 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 5.6 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 5.81 | 0 | 0 | 0.01 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 1.39 | 1 | 1.39 | 0.05 | NA | 0 | 0 | 0 | 2.38 | 1 | 2.38 | 0.01 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.894 | 1 | 0.894 | 0.05 | NA | 0 | 0 | 0 | 1.87 | 1 | 1.87 | 0.01 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.861 | 1 | 0.861 | 0.05 | NA | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.01 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.61 | 1 | 1.61 | 0.05 | NA | 0 | 0 | 0 | 5.29 | 1 | 5.29 | 0.01 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.752 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 7.42 | 1 | 7.42 | 0.01 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 1.19 | 1 | 1.19 | 0.05 | NA | 0 | 0 | 0 | 4.01 | 1 | 4.01 | 0.01 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 1.69 | 1 | 1.69 | 0.05 | NA | 0 | 0 | 0 | 5.54 | 1 | 5.54 | 0.01 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 2.1 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 2.3 | 0 | 0 | 0.01 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.807 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.02 | 1 | 3.02 | 0.01 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 3.19 | 1 | 3.19 | 0.05 | NA | 0 | 0 | 0 | 9.31 | 1 | 9.31 | 0.01 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 2.15 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 5.59 | 1 | 5.59 | 0.01 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 1.03 | 1 | 1.03 | 0.05 | NA | 0 | 0 | 0 | 3.69 | 1 | 3.69 | 0.01 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 2.62 | 1 | 2.62 | 0.05 | NA | 0 | 0 | 0 | 12.2 | 1 | 12.2 | 0.01 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 1.01 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 1.23 | 0 | 0 | 0.01 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.787 | 1 | 0.787 | 0.05 | NA | 0 | 0 | 0 | 2.39 | 1 | 2.39 | 0.01 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 2.3 | 1 | 2.3 | 0.05 | NA | 0 | 0 | 0 | 4.8 | 1 | 4.8 | 0.01 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.92 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 1.9 | 0 | 0 | 0.01 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.38 | 1 | 0.38 | 0.05 | NA | 0 | 0 | 0 | 0.59 | 1 | 0.59 | 0.01 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.7 | 1 | 0.7 | 0.05 | NA | 0 | 0 | 0 | 1.16 | 1 | 1.16 | 0.01 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.19 | 1 | 0.19 | 0.05 | NA | 0 | 0 | 0 | 0.195 | 1 | 0.195 | 0.01 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1.21 | 1 | 1.21 | 0.05 | NA | 0 | 0 | 0 | 2.35 | 1 | 2.35 | 0.01 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1.2 | 1 | 1.2 | 0.05 | NA | 0 | 0 | 0 | 1.4 | 1 | 1.4 | 0.01 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.7 | 1 | 0.7 | 0.05 | NA | 0 | 0 | 0 | 1.6 | 1 | 1.6 | 0.01 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 1.2 | 1 | 1.2 | 0.05 | NA | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.01 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.7 | 1 | 0.7 | 0.05 | NA | 0 | 0 | 0 | 0.75 | 1 | 0.75 | 0.01 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 1.52 | 0 | 0 | 0.01 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.75 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 1.02 | 0 | 0 | 0.01 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.46 | 1 | 0.46 | 0.05 | NA | 0 | 0 | 0 | 0.54 | 1 | 0.54 | 0.01 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 2.51 | 1 | 2.51 | 0.05 | NA | 0 | 0 | 0 | 7.52 | 1 | 7.52 | 0.01 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.82 | 1 | 0.82 | 0.05 | NA | 0 | 0 | 0 | 0.95 | 1 | 0.95 | 0.01 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.25 | 1 | 0.25 | 0.05 | NA | 0 | 0 | 0 | 0.37 | 1 | 0.37 | 0.01 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.9 | 1 | 0.9 | 0.05 | NA | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.01 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.9 | 1 | 0.9 | 0.05 | NA | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.01 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 1.79 | 1 | 1.79 | 0.05 | NA | 0 | 0 | 0 | 6.305 | 1 | 6.305 | 0.01 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.88 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.77 | 1 | 3.77 | 0.01 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.61 | 1 | 0.61 | 0.05 | NA | 0 | 0 | 0 | 1.05 | 1 | 1.05 | 0.01 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.85 | 1 | 0.85 | 0.05 | NA | 0 | 0 | 0 | 2.36 | 1 | 2.36 | 0.01 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.5 | 1 | 0.5 | 0.05 | NA | 0 | 0 | 0 | 3.1 | 1 | 3.1 | 0.01 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 2.53 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 2.62 | 0 | 0 | 0.01 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 1.27 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 2.59 | 0 | 0 | 0.01 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.683 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.928 | 0 | 0 | 0.01 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.446 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.01 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.119 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.9 | 1 | 0.9 | 0.01 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 2.12 | 1 | 2.12 | 0.05 | NA | 0 | 0 | 0 | 10 | 1 | 10 | 0.01 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.334 | 1 | 0.334 | 0.05 | NA | 0 | 0 | 0 | 0.949 | 1 | 0.949 | 0.01 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.314 | 1 | 0.314 | 0.05 | NA | 0 | 0 | 0 | 1.24 | 1 | 1.24 | 0.01 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.685 | 1 | 0.685 | 0.05 | NA | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.01 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.489 | 1 | 0.489 | 0.05 | NA | 0 | 0 | 0 | 1.31 | 1 | 1.31 | 0.01 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 1.11 | 1 | 1.11 | 0.05 | NA | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.01 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.871 | 1 | 0.871 | 0.05 | NA | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.01 |
| | | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.8 | 1 | 0.8 | 0.05 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.9 | 1 | 0.9 | 0.05 | NA | 0 | 0 | 0 | 4.2 | 1 | 4.2 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 1.3 | 1 | 1.3 | 0.05 | NA | 0 | 0 | 0 | 4.5 | 1 | 4.5 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.81 | 1 | 0.81 | 0.05 | NA | 0 | 0 | 0 | 2.65 | 1 | 2.65 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 1.13 | 1 | 1.13 | 0.05 | NA | 0 | 0 | 0 | 3.33 | 1 | 3.33 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 1.07 | 1 | 1.07 | 0.05 | NA | 0 | 0 | 0 | 2.16 | 1 | 2.16 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 1.18 | 1 | 1.18 | 0.05 | NA | 0 | 0 | 0 | 3.52 | 1 | 3.52 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.276 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.49 | 1 | 0.49 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 1.19 | 1 | 1.19 | 0.05 | NA | 0 | 0 | 0 | 2.44 | 1 | 2.44 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 1.18 | 1 | 1.18 | 0.05 | NA | 0 | 0 | 0 | 2.36 | 1 | 2.36 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.99 | 1 | 0.99 | 0.05 | NA | 0 | 0 | 0 | 2.82 | 1 | 2.82 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 1.13 | 1 | 1.13 | 0.05 | NA | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 1.13 | 1 | 1.13 | 0.05 | NA | 0 | 0 | 0 | 2.41 | 1 | 2.41 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 1.32 | 1 | 1.32 | 0.05 | NA | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.8 | 1 | 0.8 | 0.05 | NA | 0 | 0 | 0 | 2.04 | 0 | 0 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1.16 | 1 | 1.16 | 0.05 | NA | 0 | 0 | 0 | 3.39 | 1 | 3.39 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.66 | 1 | 0.66 | 0.05 | NA | 0 | 0 | 0 | 1.16 | 1 | 1.16 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.507 | 1 | 0.507 | 0.05 | NA | 0 | 0 | 0 | 0.996 | 1 | 0.996 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 2.14 | 1 | 2.14 | 0.05 | NA | 0 | 0 | 0 | 7.01 | 1 | 7.01 | 0.01 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 1.14 | 1 | 1.14 | 0.05 | NA | 0 | 0 | 0 | 2.03 | 0 | 0 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.792 | 1 | 0.792 | 0.05 | NA | 0 | 0 | 0 | 1.5 | 1 | 1.5 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 1.9 | 1 | 1.9 | 0.05 | NA | 0 | 0 | 0 | 3.85 | 1 | 3.85 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.672 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 1.26 | 1 | 1.26 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.445 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.95 | 0 | 0 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 1.52 | 1 | 1.52 | 0.05 | NA | 0 | 0 | 0 | 3.41 | 1 | 3.41 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0.896 | 1 | 0.896 | 0.05 | NA | 0 | 0 | 0 | 1.53 | 0 | 0 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 1.23 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.64 | 1 | 3.64 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 1.2 | 1 | 1.2 | 0.05 | NA | 0 | 0 | 0 | 5.39 | 1 | 5.39 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.672 | 1 | 0.672 | 0.05 | NA | 0 | 0 | 0 | 1.43 | 1 | 1.43 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.998 | 1 | 0.998 | 0.05 | NA | 0 | 0 | 0 | 2.98 | 1 | 2.98 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.87 | 1 | 0.87 | 0.05 | NA | 0 | 0 | 0 | 3.2 | 1 | 3.2 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 2.53 | 1 | 2.53 | 0.05 | NA | 0 | 0 | 0 | 17.6 | 1 | 17.6 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.729 | 1 | 0.729 | 0.05 | NA | 0 | 0 | 0 | 2.56 | 1 | 2.56 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.842 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 1.24 | 1 | 1.24 | 0.05 | NA | 0 | 0 | 0 | 3.15 | 1 | 3.15 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 1.09 | 1 | 1.09 | 0.05 | NA | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 1.05 | 1 | 1.05 | 0.05 | NA | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 2.8 | 1 | 2.8 | 0.05 | NA | 0 | 0 | 0 | 6.08 | 1 | 6.08 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 1.57 | 1 | 1.57 | 0.05 | NA | 0 | 0 | 0 | 5.28 | 1 | 5.28 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 1.15 | 1 | 1.15 | 0.05 | NA | 0 | 0 | 0 | 4.02 | 1 | 4.02 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 2.63 | 1 | 2.63 | 0.05 | NA | 0 | 0 | 0 | 7.57 | 1 | 7.57 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.847 | 1 | 0.847 | 0.05 | NA | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 1.84 | 1 | 1.84 | 0.05 | NA | 0 | 0 | 0 | 7 | 1 | 7 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 1.66 | 1 | 1.66 | 0.05 | NA | 0 | 0 | 0 | 6.64 | 1 | 6.64 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.739 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.19 | 1 | 3.19 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.426 | 1 | 0.426 | 0.05 | NA | 0 | 0 | 0 | 2.14 | 1 | 2.14 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.24 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 6.79 | 1 | 6.79 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 1.77 | 1 | 1.77 | 0.05 | NA | 0 | 0 | 0 | 4.19 | 1 | 4.19 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 1.31 | 1 | 1.31 | 0.05 | NA | 0 | 0 | 0 | 1.85 | 0 | 0 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 5.6 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 5.81 | 0 | 0 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 1.39 | 1 | 1.39 | 0.05 | NA | 0 | 0 | 0 | 2.38 | 1 | 2.38 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.894 | 1 | 0.894 | 0.05 | NA | 0 | 0 | 0 | 1.87 | 1 | 1.87 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.861 | 1 | 0.861 | 0.05 | NA | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.61 | 1 | 1.61 | 0.05 | NA | 0 | 0 | 0 | 5.29 | 1 | 5.29 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.752 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 7.42 | 1 | 7.42 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 1.19 | 1 | 1.19 | 0.05 | NA | 0 | 0 | 0 | 4.01 | 1 | 4.01 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 1.69 | 1 | 1.69 | 0.05 | NA | 0 | 0 | 0 | 5.54 | 1 | 5.54 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 2.1 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 2.3 | 0 | 0 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.807 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.02 | 1 | 3.02 | 0.01 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 3.19 | 1 | 3.19 | 0.05 | NA | 0 | 0 | 0 | 9.31 | 1 | 9.31 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 2.15 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 5.59 | 1 | 5.59 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 1.03 | 1 | 1.03 | 0.05 | NA | 0 | 0 | 0 | 3.69 | 1 | 3.69 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 2.62 | 1 | 2.62 | 0.05 | NA | 0 | 0 | 0 | 12.2 | 1 | 12.2 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 1.01 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 1.23 | 0 | 0 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.787 | 1 | 0.787 | 0.05 | NA | 0 | 0 | 0 | 2.39 | 1 | 2.39 | 0.01 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 2.3 | 1 | 2.3 | 0.05 | NA | 0 | 0 | 0 | 4.8 | 1 | 4.8 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.92 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 1.9 | 0 | 0 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.38 | 1 | 0.38 | 0.05 | NA | 0 | 0 | 0 | 0.59 | 1 | 0.59 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.7 | 1 | 0.7 | 0.05 | NA | 0 | 0 | 0 | 1.16 | 1 | 1.16 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.19 | 1 | 0.19 | 0.05 | NA | 0 | 0 | 0 | 0.195 | 1 | 0.195 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1.21 | 1 | 1.21 | 0.05 | NA | 0 | 0 | 0 | 2.35 | 1 | 2.35 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1.2 | 1 | 1.2 | 0.05 | NA | 0 | 0 | 0 | 1.4 | 1 | 1.4 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.7 | 1 | 0.7 | 0.05 | NA | 0 | 0 | 0 | 1.6 | 1 | 1.6 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 1.2 | 1 | 1.2 | 0.05 | NA | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.7 | 1 | 0.7 | 0.05 | NA | 0 | 0 | 0 | 0.75 | 1 | 0.75 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 1.52 | 0 | 0 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.75 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 1.02 | 0 | 0 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.46 | 1 | 0.46 | 0.05 | NA | 0 | 0 | 0 | 0.54 | 1 | 0.54 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 2.51 | 1 | 2.51 | 0.05 | NA | 0 | 0 | 0 | 7.52 | 1 | 7.52 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.82 | 1 | 0.82 | 0.05 | NA | 0 | 0 | 0 | 0.95 | 1 | 0.95 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.25 | 1 | 0.25 | 0.05 | NA | 0 | 0 | 0 | 0.37 | 1 | 0.37 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.9 | 1 | 0.9 | 0.05 | NA | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.9 | 1 | 0.9 | 0.05 | NA | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 1.79 | 1 | 1.79 | 0.05 | NA | 0 | 0 | 0 | 6.305 | 1 | 6.305 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.88 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.77 | 1 | 3.77 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.61 | 1 | 0.61 | 0.05 | NA | 0 | 0 | 0 | 1.05 | 1 | 1.05 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.85 | 1 | 0.85 | 0.05 | NA | 0 | 0 | 0 | 2.36 | 1 | 2.36 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.5 | 1 | 0.5 | 0.05 | NA | 0 | 0 | 0 | 3.1 | 1 | 3.1 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 2.53 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 2.62 | 0 | 0 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 1.27 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 2.59 | 0 | 0 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.683 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.928 | 0 | 0 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.446 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.01 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.119 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.9 | 1 | 0.9 | 0.01 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 2.12 | 1 | 2.12 | 0.05 | NA | 0 | 0 | 0 | 10 | 1 | 10 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.334 | 1 | 0.334 | 0.05 | NA | 0 | 0 | 0 | 0.949 | 1 | 0.949 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.314 | 1 | 0.314 | 0.05 | NA | 0 | 0 | 0 | 1.24 | 1 | 1.24 | 0.01 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.685 | 1 | 0.685 | 0.05 | NA | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.01 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.489 | 1 | 0.489 | 0.05 | NA | 0 | 0 | 0 | 1.31 | 1 | 1.31 | 0.01 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 1.11 | 1 | 1.11 | 0.05 | NA | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.01 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.871 | 1 | 0.871 | 0.05 | NA | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.01 |
| | | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.8 | 1 | 0.8 | 0.05 | 0 | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.01 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.9 | 1 | 0.9 | 0.05 | 0 | 0 | 0 | 0 | 4.2 | 1 | 4.2 | 0.01 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 1.3 | 1 | 1.3 | 0.05 | 0 | 0 | 0 | 0 | 4.5 | 1 | 4.5 | 0.01 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.81 | 1 | 0.81 | 0.05 | 0 | 0 | 0 | 0 | 2.65 | 1 | 2.65 | 0.01 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 1.13 | 1 | 1.13 | 0.05 | 0 | 0 | 0 | 0 | 3.33 | 1 | 3.33 | 0.01 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 1.07 | 1 | 1.07 | 0.05 | 0 | 0 | 0 | 0 | 2.16 | 1 | 2.16 | 0.01 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 1.18 | 1 | 1.18 | 0.05 | 0 | 0 | 0 | 0 | 3.52 | 1 | 3.52 | 0.01 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.276 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0.49 | 1 | 0.49 | 0.01 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 1.19 | 1 | 1.19 | 0.05 | 0 | 0 | 0 | 0 | 2.44 | 1 | 2.44 | 0.01 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 1.18 | 1 | 1.18 | 0.05 | 0 | 0 | 0 | 0 | 2.36 | 1 | 2.36 | 0.01 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.99 | 1 | 0.99 | 0.05 | 0 | 0 | 0 | 0 | 2.82 | 1 | 2.82 | 0.01 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 1.13 | 1 | 1.13 | 0.05 | 0 | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.01 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 1.13 | 1 | 1.13 | 0.05 | 0 | 0 | 0 | 0 | 2.41 | 1 | 2.41 | 0.01 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 1.32 | 1 | 1.32 | 0.05 | 0 | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.01 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.05 | 0 | | | | | | | 0.01 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.8 | 1 | 0.8 | 0.05 | 0 | 0 | 0 | 0 | 2.04 | 0 | 0 | 0.01 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1.16 | 1 | 1.16 | 0.05 | 0 | 0 | 0 | 0 | 3.39 | 1 | 3.39 | 0.01 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.66 | 1 | 0.66 | 0.05 | 0 | 0 | 0 | 0 | 1.16 | 1 | 1.16 | 0.01 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.507 | 1 | 0.507 | 0.05 | 0 | 0 | 0 | 0 | 0.996 | 1 | 0.996 | 0.01 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 2.14 | 1 | 2.14 | 0.05 | 0 | 0 | 0 | 0 | 7.01 | 1 | 7.01 | 0.01 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 1.14 | 1 | 1.14 | 0.05 | 0 | 0 | 0 | 0 | 2.03 | 0 | 0 | 0.01 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.792 | 1 | 0.792 | 0.05 | 0 | 0 | 0 | 0 | 1.5 | 1 | 1.5 | 0.01 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 1.9 | 1 | 1.9 | 0.05 | 0 | 0 | 0 | 0 | 3.85 | 1 | 3.85 | 0.01 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.672 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 1.26 | 1 | 1.26 | 0.01 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.445 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0.95 | 0 | 0 | 0.01 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 1.52 | 1 | 1.52 | 0.05 | 0 | 0 | 0 | 0 | 3.41 | 1 | 3.41 | 0.01 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0.896 | 1 | 0.896 | 0.05 | 0 | 0 | 0 | 0 | 1.53 | 0 | 0 | 0.01 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 1.23 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 3.64 | 1 | 3.64 | 0.01 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 1.2 | 1 | 1.2 | 0.05 | 0 | 0 | 0 | 0 | 5.39 | 1 | 5.39 | 0.01 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.672 | 1 | 0.672 | 0.05 | 0 | 0 | 0 | 0 | 1.43 | 1 | 1.43 | 0.01 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.998 | 1 | 0.998 | 0.05 | 0 | 0 | 0 | 0 | 2.98 | 1 | 2.98 | 0.01 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.87 | 1 | 0.87 | 0.05 | 0 | 0 | 0 | 0 | 3.2 | 1 | 3.2 | 0.01 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 2.53 | 1 | 2.53 | 0.05 | 0 | 0 | 0 | 0 | 17.6 | 1 | 17.6 | 0.01 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.729 | 1 | 0.729 | 0.05 | 0 | 0 | 0 | 0 | 2.56 | 1 | 2.56 | 0.01 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.842 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.01 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 1.24 | 1 | 1.24 | 0.05 | 0 | 0 | 0 | 0 | 3.15 | 1 | 3.15 | 0.01 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 1.09 | 1 | 1.09 | 0.05 | 0 | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.01 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.05 | 0 | | | | | | | 0.01 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 1.05 | 1 | 1.05 | 0.05 | 0 | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.01 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 2.8 | 1 | 2.8 | 0.05 | 0 | 0 | 0 | 0 | 6.08 | 1 | 6.08 | 0.01 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 1.57 | 1 | 1.57 | 0.05 | 0 | 0 | 0 | 0 | 5.28 | 1 | 5.28 | 0.01 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 1.15 | 1 | 1.15 | 0.05 | 0 | 0 | 0 | 0 | 4.02 | 1 | 4.02 | 0.01 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 2.63 | 1 | 2.63 | 0.05 | 0 | 0 | 0 | 0 | 7.57 | 1 | 7.57 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.847 | 1 | 0.847 | 0.05 | 0 | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.01 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 1.84 | 1 | 1.84 | 0.05 | 0 | 0 | 0 | 0 | 7 | 1 | 7 | 0.01 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 1.66 | 1 | 1.66 | 0.05 | 0 | 0 | 0 | 0 | 6.64 | 1 | 6.64 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.739 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 3.19 | 1 | 3.19 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.426 | 1 | 0.426 | 0.05 | 0 | 0 | 0 | 0 | 2.14 | 1 | 2.14 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.24 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 6.79 | 1 | 6.79 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 1.77 | 1 | 1.77 | 0.05 | 0 | 0 | 0 | 0 | 4.19 | 1 | 4.19 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 1.31 | 1 | 1.31 | 0.05 | 0 | 0 | 0 | 0 | 1.85 | 0 | 0 | 0.01 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 5.6 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 5.81 | 0 | 0 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 1.39 | 1 | 1.39 | 0.05 | 0 | 0 | 0 | 0 | 2.38 | 1 | 2.38 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.894 | 1 | 0.894 | 0.05 | 0 | 0 | 0 | 0 | 1.87 | 1 | 1.87 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.05 | 0 | | | | | | | 0.01 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.861 | 1 | 0.861 | 0.05 | 0 | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.61 | 1 | 1.61 | 0.05 | 0 | 0 | 0 | 0 | 5.29 | 1 | 5.29 | 0.01 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.752 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 7.42 | 1 | 7.42 | 0.01 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 1.19 | 1 | 1.19 | 0.05 | 0 | 0 | 0 | 0 | 4.01 | 1 | 4.01 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 1.69 | 1 | 1.69 | 0.05 | 0 | 0 | 0 | 0 | 5.54 | 1 | 5.54 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 2.1 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 2.3 | 0 | 0 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.807 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 3.02 | 1 | 3.02 | 0.01 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 3.19 | 1 | 3.19 | 0.05 | 0 | 0 | 0 | 0 | 9.31 | 1 | 9.31 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 2.15 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 5.59 | 1 | 5.59 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 1.03 | 1 | 1.03 | 0.05 | 0 | 0 | 0 | 0 | 3.69 | 1 | 3.69 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 2.62 | 1 | 2.62 | 0.05 | 0 | 0 | 0 | 0 | 12.2 | 1 | 12.2 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 1.01 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 1.23 | 0 | 0 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.787 | 1 | 0.787 | 0.05 | 0 | 0 | 0 | 0 | 2.39 | 1 | 2.39 | 0.01 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 2.3 | 1 | 2.3 | 0.05 | 0 | 0 | 0 | 0 | 4.8 | 1 | 4.8 | 0.01 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.92 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 1.9 | 0 | 0 | 0.01 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.38 | 1 | 0.38 | 0.05 | 0 | 0 | 0 | 0 | 0.59 | 1 | 0.59 | 0.01 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.7 | 1 | 0.7 | 0.05 | 0 | 0 | 0 | 0 | 1.16 | 1 | 1.16 | 0.01 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.19 | 1 | 0.19 | 0.05 | 0 | 0 | 0 | 0 | 0.195 | 1 | 0.195 | 0.01 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1.21 | 1 | 1.21 | 0.05 | 0 | 0 | 0 | 0 | 2.35 | 1 | 2.35 | 0.01 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1.2 | 1 | 1.2 | 0.05 | 0 | 0 | 0 | 0 | 1.4 | 1 | 1.4 | 0.01 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.7 | 1 | 0.7 | 0.05 | 0 | 0 | 0 | 0 | 1.6 | 1 | 1.6 | 0.01 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 1.2 | 1 | 1.2 | 0.05 | 0 | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.01 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.7 | 1 | 0.7 | 0.05 | 0 | 0 | 0 | 0 | 0.75 | 1 | 0.75 | 0.01 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | 0.05 | 0 | | | | | | | 0.01 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 1.52 | 0 | 0 | 0.01 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.75 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 1.02 | 0 | 0 | 0.01 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.46 | 1 | 0.46 | 0.05 | 0 | 0 | 0 | 0 | 0.54 | 1 | 0.54 | 0.01 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 2.51 | 1 | 2.51 | 0.05 | 0 | 0 | 0 | 0 | 7.52 | 1 | 7.52 | 0.01 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.82 | 1 | 0.82 | 0.05 | 0 | 0 | 0 | 0 | 0.95 | 1 | 0.95 | 0.01 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.25 | 1 | 0.25 | 0.05 | 0 | 0 | 0 | 0 | 0.37 | 1 | 0.37 | 0.01 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.9 | 1 | 0.9 | 0.05 | 0 | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.01 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.9 | 1 | 0.9 | 0.05 | 0 | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.01 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 1.79 | 1 | 1.79 | 0.05 | 0 | 0 | 0 | 0 | 6.305 | 1 | 6.305 | 0.01 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.05 | 0 | | | | | | | 0.01 |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.88 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 3.77 | 1 | 3.77 | 0.01 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.61 | 1 | 0.61 | 0.05 | 0 | 0 | 0 | 0 | 1.05 | 1 | 1.05 | 0.01 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.85 | 1 | 0.85 | 0.05 | 0 | 0 | 0 | 0 | 2.36 | 1 | 2.36 | 0.01 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.05 | 0 | | | | | | | 0.01 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.5 | 1 | 0.5 | 0.05 | 0 | 0 | 0 | 0 | 3.1 | 1 | 3.1 | 0.01 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 2.53 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 2.62 | 0 | 0 | 0.01 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 1.27 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 2.59 | 0 | 0 | 0.01 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.683 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0.928 | 0 | 0 | 0.01 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.446 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.01 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.119 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0.9 | 1 | 0.9 | 0.01 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 2.12 | 1 | 2.12 | 0.05 | 0 | 0 | 0 | 0 | 10 | 1 | 10 | 0.01 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.334 | 1 | 0.334 | 0.05 | 0 | 0 | 0 | 0 | 0.949 | 1 | 0.949 | 0.01 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.314 | 1 | 0.314 | 0.05 | 0 | 0 | 0 | 0 | 1.24 | 1 | 1.24 | 0.01 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.685 | 1 | 0.685 | 0.05 | 0 | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.01 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.489 | 1 | 0.489 | 0.05 | 0 | 0 | 0 | 0 | 1.31 | 1 | 1.31 | 0.01 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 1.11 | 1 | 1.11 | 0.05 | 0 | 0 | 0 | 0 | 2.75 | 1 | 2.75 | 0.01 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.871 | 1 | 0.871 | 0.05 | 0 | 0 | 0 | 0 | 1.74 | 1 | 1.74 | 0.01 |
| | | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.01 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.01 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.05 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.01 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.05 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.01 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.05 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.01 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.05 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.01 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.05 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.01 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.05 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.01 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.05 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.01 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| | | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.01 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.01 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.05 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.01 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.05 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.01 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.05 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.01 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.05 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.01 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.05 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.01 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.05 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.01 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.05 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.01 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| | | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.01 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.01 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.05 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.01 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.05 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.01 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.05 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.01 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.05 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.01 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.05 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.01 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.05 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.01 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.05 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.01 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| | | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.01 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.01 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.05 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.01 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.05 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.01 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.05 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.01 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.05 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.01 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.05 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.01 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.05 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.01 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.05 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.01 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.01 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.01 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.05 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.01 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.05 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.01 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.05 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.01 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.05 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.01 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.05 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.01 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.05 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.01 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.05 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.01 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.05 | 2.923976608 | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.01 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.05 | 2.923976608 | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.05 | 2.923976608 | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.01 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.05 | 2.923976608 | 4.707602339 | 0.235380117 | 0.24 | 3.36 | 1 | 3.36 | 0.01 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.05 | 2.923976608 | 0.409356725 | 0.020467836 | 0.02 | 0.329 | 0 | 0 | 0.01 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.05 | 2.923976608 | 0.371345029 | 0.018567251 | 0.019 | 0.247 | 0 | 0 | 0.01 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.05 | 2.923976608 | 0.707602339 | 0.035380117 | 0.035 | 0.573 | 0 | 0 | 0.01 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.05 | 2.923976608 | 4.766081871 | 0.238304094 | 0.24 | 3.7 | 1 | 3.7 | 0.01 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.05 | 2.923976608 | 1.134502924 | 0.056725146 | 0.057 | 1.05 | 0 | 0 | 0.01 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.05 | 2.923976608 | 1.611111111 | 0.080555556 | 0.081 | 1.01 | 0 | 0 | 0.01 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.05 | 2.923976608 | | | | | | | 0.01 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.05 | 2.923976608 | | | | | | | 0.01 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.05 | 2.923976608 | | | | | | | 0.01 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.05 | 2.923976608 | | | | | | | 0.01 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.05 | 2.677741276 | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.01 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.05 | 2.677741276 | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.05 | 2.677741276 | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.01 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.05 | 2.677741276 | 4.311163454 | 0.215558173 | 0.22 | 3.36 | 1 | 3.36 | 0.01 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.05 | 2.677741276 | 0.374883779 | 0.018744189 | 0.019 | 0.329 | 0 | 0 | 0.01 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.05 | 2.677741276 | 0.340073142 | 0.017003657 | 0.017 | 0.247 | 0 | 0 | 0.01 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.05 | 2.677741276 | 0.648013389 | 0.032400669 | 0.032 | 0.573 | 0 | 0 | 0.01 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.05 | 2.677741276 | 4.364718279 | 0.218235914 | 0.22 | 3.7 | 1 | 3.7 | 0.01 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.05 | 2.677741276 | 1.038963615 | 0.051948181 | 0.052 | 1.05 | 0 | 0 | 0.01 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.05 | 2.677741276 | 1.475435443 | 0.073771772 | 0.074 | 1.01 | 0 | 0 | 0.01 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.05 | 2.677741276 | | | | | | | 0.01 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.05 | 2.677741276 | | | | | | | 0.01 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.05 | 2.677741276 | | | | | | | 0.01 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.05 | 2.677741276 | | | | | | | 0.01 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.01 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.01 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.05 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.01 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.05 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.01 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.05 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.01 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.05 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.01 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.05 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.01 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.05 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.01 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.05 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.01 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.01 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.01 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.05 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.01 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.05 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.01 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.05 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.01 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.05 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.01 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.05 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.01 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.05 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.01 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.05 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.01 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.01 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.01 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.05 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.01 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.05 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.01 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.05 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.01 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.05 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.01 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.05 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.01 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.05 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.01 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.05 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.01 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.01 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.05 | 2.923976608 | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.01 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.05 | 2.923976608 | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.05 | 2.923976608 | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.01 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.05 | 2.923976608 | 4.707602339 | 0.235380117 | 0.24 | 3.36 | 1 | 3.36 | 0.01 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.05 | 2.923976608 | 0.409356725 | 0.020467836 | 0.02 | 0.329 | 0 | 0 | 0.01 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.05 | 2.923976608 | 0.371345029 | 0.018567251 | 0.019 | 0.247 | 0 | 0 | 0.01 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.05 | 2.923976608 | 0.707602339 | 0.035380117 | 0.035 | 0.573 | 0 | 0 | 0.01 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.05 | 2.923976608 | 4.766081871 | 0.238304094 | 0.24 | 3.7 | 1 | 3.7 | 0.01 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.05 | 2.923976608 | 1.134502924 | 0.056725146 | 0.057 | 1.05 | 0 | 0 | 0.01 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.05 | 2.923976608 | 1.611111111 | 0.080555556 | 0.081 | 1.01 | 0 | 0 | 0.01 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.05 | 2.923976608 | | | | | | | 0.01 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.05 | 2.923976608 | | | | | | | 0.01 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.05 | 2.923976608 | | | | | | | 0.01 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.05 | 2.923976608 | | | | | | | 0.01 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.116166472 | 0.220716296 | 0.002207163 | 0.0022 | 2.5 | 1 | 2.5 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.116166472 | 0.487899181 | 0.004878992 | 0.0049 | 2.6 | 1 | 2.6 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.116166472 | 0.522749122 | 0.005227491 | 0.0052 | 3.9 | 1 | 3.9 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.116166472 | 0.30784115 | 0.003078411 | 0.0031 | 2.07 | 1 | 2.07 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.116166472 | 0.38683435 | 0.003868344 | 0.0039 | 2.24 | 1 | 2.24 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.116166472 | 0.250919579 | 0.002509196 | 0.0025 | 2.03 | 1 | 2.03 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.116166472 | 0.40890598 | 0.00408906 | 0.0041 | 3.09 | 1 | 3.09 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.116166472 | 0.056921571 | 0.000569216 | 0.00057 | 0.659 | 1 | 0.659 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.116166472 | 0.283446191 | 0.002834462 | 0.0028 | 2.58 | 1 | 2.58 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.116166472 | 0.274152873 | 0.002741529 | 0.0027 | 2.86 | 1 | 2.86 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.116166472 | 0.32758945 | 0.003275894 | 0.0033 | 2.78 | 1 | 2.78 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.116166472 | 0.202129661 | 0.002021297 | 0.002 | 2.25 | 1 | 2.25 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.116166472 | 0.279961197 | 0.002799612 | 0.0028 | 3.2 | 1 | 3.2 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.116166472 | 0.319457797 | 0.003194578 | 0.0032 | 3.42 | 1 | 3.42 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.116166472 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.116166472 | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.116166472 | 0.393804339 | 0.003938043 | 0.0039 | 3.23 | 1 | 3.23 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.116166472 | 0.134753107 | 0.001347531 | 0.0013 | 1.62 | 1 | 1.62 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.116166472 | 0.115701806 | 0.001157018 | 0.0012 | 1.39 | 1 | 1.39 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.116166472 | 0.814326966 | 0.00814327 | 0.0081 | 6.22 | 1 | 6.22 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.116166472 | 0 | 0 | 0 | 2.96 | 1 | 2.96 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.116166472 | 0.174249707 | 0.001742497 | 0.0017 | 2.11 | 1 | 2.11 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.116166472 | 0.447240916 | 0.004472409 | 0.0045 | 4.91 | 1 | 4.91 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.116166472 | 0.146369754 | 0.001463698 | 0.0015 | 1.69 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.116166472 | 0 | 0 | 0 | 1.38 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.116166472 | 0.396127668 | 0.003961277 | 0.004 | 3.12 | 1 | 3.12 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0.116166472 | 0 | 0 | 0 | 2.33 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.116166472 | 0.422845957 | 0.00422846 | 0.0042 | 4.3 | 1 | 4.3 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.116166472 | 0.626137282 | 0.006261373 | 0.0063 | 4.76 | 1 | 4.76 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.116166472 | 0.166118054 | 0.001661181 | 0.0017 | 1.77 | 1 | 1.77 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.116166472 | 0.346176085 | 0.003461761 | 0.0035 | 3.8 | 1 | 3.8 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.116166472 | 0.371732709 | 0.003717327 | 0.0037 | 2.65 | 1 | 2.65 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.116166472 | 2.0445299 | 0.020445299 | 0.02 | 6.71 | 1 | 6.71 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.116166472 | 0.297386167 | 0.002973862 | 0.003 | 1.96 | 1 | 1.96 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.116166472 | 0.202129661 | 0.002021297 | 0.002 | 2.44 | 1 | 2.44 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.116166472 | 0.365924386 | 0.003659244 | 0.0037 | 2.96 | 1 | 2.96 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.116166472 | 0.319457797 | 0.003194578 | 0.0032 | 3.17 | 1 | 3.17 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0.116166472 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.116166472 | 0.418199298 | 0.004181993 | 0.0042 | 3.06 | 1 | 3.06 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.116166472 | 0.706292147 | 0.007062921 | 0.0071 | 7.38 | 1 | 7.38 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 0.116166472 | 0.61335897 | 0.00613359 | 0.0061 | 5.2 | 1 | 5.2 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.116166472 | 0.466989216 | 0.004669892 | 0.0047 | 3.36 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.116166472 | 0.87938019 | 0.008793802 | 0.0088 | 7.73 | 1 | 7.73 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.116166472 | 0.236979602 | 0.002369796 | 0.0024 | 1.86 | 1 | 1.86 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.116166472 | 0.813165301 | 0.008131653 | 0.0081 | 5.54 | 1 | 5.54 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.116166472 | 0.771345371 | 0.007713454 | 0.0077 | 4.66 | 1 | 4.66 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.116166472 | 0.370571044 | 0.00370571 | 0.0037 | 1.91 | 1 | 1.91 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.116166472 | 0.248596249 | 0.002485962 | 0.0025 | 1.06 | 1 | 1.06 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.116166472 | 0.788770342 | 0.007887703 | 0.0079 | 3.08 | 1 | 3.08 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.116166472 | 0.486737516 | 0.004867375 | 0.0049 | 6.47 | 1 | 6.47 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.116166472 | 0 | 0 | 0 | 3.61 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.116166472 | 0 | 0 | 0 | 6.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.116166472 | 0.276476202 | 0.002764762 | 0.0028 | 4.11 | 1 | 4.11 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.116166472 | 0.217231302 | 0.002172313 | 0.0022 | 2.84 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.116166472 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.116166472 | 0.221877961 | 0.00221878 | 0.0022 | 3.64 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.116166472 | 0.614520635 | 0.006145206 | 0.0061 | 6.01 | 1 | 6.01 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.116166472 | 0.861955219 | 0.008619552 | 0.0086 | 3.59 | 1 | 3.59 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.116166472 | 0.465827551 | 0.004658276 | 0.0047 | 4.81 | 1 | 4.81 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.116166472 | 0.643562253 | 0.006435623 | 0.0064 | 6.06 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.116166472 | 0 | 0 | 0 | 2.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.116166472 | 0.350822744 | 0.003508227 | 0.0035 | 3.1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.116166472 | 1.081509851 | 0.010815099 | 0.011 | 7.81 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.116166472 | 0.649370576 | 0.006493706 | 0.0065 | 3.51 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.116166472 | 0.42865428 | 0.004286543 | 0.0043 | 5 | 1 | 5 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.116166472 | 1.417230954 | 0.01417231 | 0.014 | 8.21 | 1 | 8.21 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.116166472 | 0 | 0 | 0 | 1.07 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.116166472 | 0.277637867 | 0.002776379 | 0.0028 | 2.22 | 1 | 2.22 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.116166472 | 0.557599064 | 0.005575991 | 0.0056 | 5.9 | 1 | 5.9 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.116166472 | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.116166472 | 0.068538218 | 0.000685382 | 0.00069 | 0.81 | 1 | 0.81 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.116166472 | 0.134753107 | 0.001347531 | 0.0013 | 1.4 | 1 | 1.4 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.116166472 | 0.022652462 | 0.000226525 | 0.00023 | 0.316 | 1 | 0.316 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.116166472 | 0.272991208 | 0.002729912 | 0.0027 | 2.33 | 1 | 2.33 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.116166472 | 0.16263306 | 0.001626331 | 0.0016 | 1.8 | 1 | 1.8 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.116166472 | 0.185866355 | 0.001858664 | 0.0019 | 1.7 | 1 | 1.7 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.116166472 | 0.255566238 | 0.002555662 | 0.0026 | 2.7 | 1 | 2.7 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.116166472 | 0.087124854 | 0.000871249 | 0.00087 | 1 | 1 | 1 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | 0.116166472 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.116166472 | 0 | 0 | 0 | 2.17 | 1 | 2.17 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.116166472 | 0 | 0 | 0 | 1.17 | 1 | 1.17 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.116166472 | 0.062729895 | 0.000627299 | 0.00063 | 1.24 | 1 | 1.24 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.116166472 | 0.873571866 | 0.008735719 | 0.0087 | 3.99 | 1 | 3.99 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.116166472 | 0.110358148 | 0.001103581 | 0.0011 | 1.57 | 1 | 1.57 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.116166472 | 0.042981594 | 0.000429816 | 0.00043 | 0.49 | 1 | 0.49 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.116166472 | 0.127783119 | 0.001277831 | 0.0013 | 2.1 | 1 | 2.1 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.116166472 | 0.127783119 | 0.001277831 | 0.0013 | 1.9 | 1 | 1.9 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.116166472 | 0.732429603 | 0.007324296 | 0.0073 | 3.67 | 1 | 3.67 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | 0.116166472 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.116166472 | 0.437947598 | 0.004379476 | 0.0044 | 2.59 | 1 | 2.59 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.116166472 | 0.121974795 | 0.001219748 | 0.0012 | 1.83 | 1 | 1.83 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.116166472 | 0.274152873 | 0.002741529 | 0.0027 | 3.735 | 1 | 3.735 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | 0.116166472 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.116166472 | 0.360116062 | 0.003601161 | 0.0036 | 2.2 | 1 | 2.2 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.116166472 | 0 | 0 | 0 | 2.77 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.116166472 | 0 | 0 | 0 | 1.89 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.116166472 | 0 | 0 | 0 | 1.45 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.116166472 | 0.139399766 | 0.001393998 | 0.0014 | 1.5 | 1 | 1.5 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.116166472 | 0.104549824 | 0.001045498 | 0.001 | 0.9 | 1 | 0.9 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.116166472 | 1.161664716 | 0.011616647 | 0.012 | 5.42 | 1 | 5.42 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.116166472 | 0.110241982 | 0.00110242 | 0.0011 | 0.708 | 1 | 0.708 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.116166472 | 0.144046425 | 0.001440464 | 0.0014 | 0.989 | 1 | 0.989 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.116166472 | 0.221877961 | 0.00221878 | 0.0022 | 1.65 | 1 | 1.65 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.116166472 | 0.152178078 | 0.001521781 | 0.0015 | 1.1 | 1 | 1.1 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.116166472 | 0.319457797 | 0.003194578 | 0.0032 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.116166472 | 0.202129661 | 0.002021297 | 0.002 | 1.83 | 1 | 1.83 | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 2.5 | 1 | 2.5 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 2.6 | 1 | 2.6 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 2.07 | 1 | 2.07 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 2.24 | 1 | 2.24 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 2.03 | 1 | 2.03 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 3.09 | 1 | 3.09 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 0.659 | 1 | 0.659 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 2.58 | 1 | 2.58 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 2.86 | 1 | 2.86 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 2.78 | 1 | 2.78 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 2.25 | 1 | 2.25 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 3.2 | 1 | 3.2 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 3.42 | 1 | 3.42 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 3.23 | 1 | 3.23 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 1.62 | 1 | 1.62 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 1.39 | 1 | 1.39 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 6.22 | 1 | 6.22 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 2.96 | 1 | 2.96 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 2.11 | 1 | 2.11 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 4.91 | 1 | 4.91 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 1.69 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 1.38 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 3.12 | 1 | 3.12 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | /Field Duplic | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 2.33 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 4.3 | 1 | 4.3 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 4.76 | 1 | 4.76 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | /Field Duplic | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 1.77 | 1 | 1.77 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 3.8 | 1 | 3.8 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 2.65 | 1 | 2.65 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 6.71 | 1 | 6.71 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 1.96 | 1 | 1.96 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 2.44 | 1 | 2.44 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 2.96 | 1 | 2.96 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 3.17 | 1 | 3.17 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 3.06 | 1 | 3.06 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 7.38 | 1 | 7.38 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | /Field Duplic | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 5.2 | 1 | 5.2 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 3.36 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 7.73 | 1 | 7.73 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 1.86 | 1 | 1.86 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 5.54 | 1 | 5.54 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 4.66 | 1 | 4.66 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 1.06 | 1 | 1.06 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 6.47 | 1 | 6.47 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 3.61 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 6.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 4.11 | 1 | 4.11 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 2.84 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 3.64 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 6.01 | 1 | 6.01 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 3.59 | 1 | 3.59 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 4.81 | 1 | 4.81 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 6.06 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 2.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 3.1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 7.81 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 3.51 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 5 | 1 | 5 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 8.21 | 1 | 8.21 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 1.07 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 2.22 | 1 | 2.22 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 5.9 | 1 | 5.9 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 0.81 | 1 | 0.81 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 1.4 | 1 | 1.4 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 0.316 | 1 | 0.316 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 2.33 | 1 | 2.33 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 1.8 | 1 | 1.8 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 1.7 | 1 | 1.7 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 2.7 | 1 | 2.7 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 1 | 1 | 1 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 2.17 | 1 | 2.17 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 1.17 | 1 | 1.17 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 1.24 | 1 | 1.24 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 3.99 | 1 | 3.99 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 1.57 | 1 | 1.57 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 0.49 | 1 | 0.49 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 2.1 | 1 | 2.1 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 3.67 | 1 | 3.67 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 2.59 | 1 | 2.59 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 1.83 | 1 | 1.83 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 3.735 | 1 | 3.735 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 2.77 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 1.89 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 1.45 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 1.5 | 1 | 1.5 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 0.9 | 1 | 0.9 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 5.42 | 1 | 5.42 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 0.708 | 1 | 0.708 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 0.989 | 1 | 0.989 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 1.65 | 1 | 1.65 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 1.83 | 1 | 1.83 | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.001314286 | 0.002497143 | 2.49714E-05 | 0.000025 | 2.5 | 1 | 2.5 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.001314286 | 0.00552 | 0.0000552 | 0.000055 | 2.6 | 1 | 2.6 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.001314286 | 0.005914286 | 5.91429E-05 | 0.000059 | 3.9 | 1 | 3.9 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.001314286 | 0.003482857 | 3.48286E-05 | 0.000035 | 2.07 | 1 | 2.07 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.001314286 | 0.004376571 | 4.37657E-05 | 0.000044 | 2.24 | 1 | 2.24 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.001314286 | 0.002838857 | 2.83886E-05 | 0.000028 | 2.03 | 1 | 2.03 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.001314286 | 0.004626286 | 4.62629E-05 | 0.000046 | 3.09 | 1 | 3.09 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.001314286 | 0.000644 | 0.00000644 | 0.0000064 | 0.659 | 1 | 0.659 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.001314286 | 0.003206857 | 3.20686E-05 | 0.000032 | 2.58 | 1 | 2.58 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.001314286 | 0.003101714 | 3.10171E-05 | 0.000031 | 2.86 | 1 | 2.86 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.001314286 | 0.003706286 | 3.70629E-05 | 0.000037 | 2.78 | 1 | 2.78 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.001314286 | 0.002286857 | 2.28686E-05 | 0.000023 | 2.25 | 1 | 2.25 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.001314286 | 0.003167429 | 3.16743E-05 | 0.000032 | 3.2 | 1 | 3.2 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.001314286 | 0.003614286 | 3.61429E-05 | 0.000036 | 3.42 | 1 | 3.42 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.001314286 | | | | | | | 0.1 | 0 | | | |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.001314286 | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.001314286 | 0.004455429 | 4.45543E-05 | 0.000045 | 3.23 | 1 | 3.23 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.001314286 | 0.001524571 | 1.52457E-05 | 0.000015 | 1.62 | 1 | 1.62 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.001314286 | 0.001309029 | 1.30903E-05 | 0.000013 | 1.39 | 1 | 1.39 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.001314286 | 0.009213143 | 9.21314E-05 | 0.000092 | 6.22 | 1 | 6.22 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.001314286 | 0 | 0 | 0 | 2.96 | 1 | 2.96 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.001314286 | 0.001971429 | 1.97143E-05 | 0.00002 | 2.11 | 1 | 2.11 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.001314286 | 0.00506 | 0.0000506 | 0.000051 | 4.91 | 1 | 4.91 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.001314286 | 0.001656 | 0.00001656 | 0.000017 | 1.69 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.001314286 | 0 | 0 | 0 | 1.38 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.001314286 | 0.004481714 | 4.48171E-05 | 0.000045 | 3.12 | 1 | 3.12 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0.001314286 | 0 | 0 | 0 | 2.33 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.001314286 | 0.004784 | 0.00004784 | 0.000048 | 4.3 | 1 | 4.3 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.001314286 | 0.007084 | 0.00007084 | 0.000071 | 4.76 | 1 | 4.76 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.001314286 | 0.001879429 | 1.87943E-05 | 0.000019 | 1.77 | 1 | 1.77 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.001314286 | 0.003916571 | 3.91657E-05 | 0.000039 | 3.8 | 1 | 3.8 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.001314286 | 0.004205714 | 4.20571E-05 | 0.000042 | 2.65 | 1 | 2.65 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.001314286 | 0.023131429 | 0.000231314 | 0.00023 | 6.71 | 1 | 6.71 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.001314286 | 0.003364571 | 3.36457E-05 | 0.000034 | 1.96 | 1 | 1.96 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.001314286 | 0.002286857 | 2.28686E-05 | 0.000023 | 2.44 | 1 | 2.44 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.001314286 | 0.00414 | 0.0000414 | 0.000041 | 2.96 | 1 | 2.96 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.001314286 | 0.003614286 | 3.61429E-05 | 0.000036 | 3.17 | 1 | 3.17 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0.001314286 | | | | | | | 0.1 | 0 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.001314286 | 0.004731429 | 4.73143E-05 | 0.000047 | 3.06 | 1 | 3.06 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.001314286 | 0.007990857 | 7.99086E-05 | 0.00008 | 7.38 | 1 | 7.38 | 0.1 | 0 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | /Field Duplic | 3/12/2009 | SO | 41 | 0.001314286 | 0.006939429 | 6.93943E-05 | 0.000069 | 5.2 | 1 | 5.2 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.001314286 | 0.005283429 | 5.28343E-05 | 0.000053 | 3.36 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.001314286 | 0.009949143 | 9.94914E-05 | 0.000099 | 7.73 | 1 | 7.73 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.001314286 | 0.002681143 | 2.68114E-05 | 0.000027 | 1.86 | 1 | 1.86 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.001314286 | 0.0092 | 0.000092 | 0.000092 | 5.54 | 1 | 5.54 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.001314286 | 0.008726857 | 8.72686E-05 | 0.000087 | 4.66 | 1 | 4.66 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.001314286 | 0.004192571 | 4.19257E-05 | 0.000042 | 1.91 | 1 | 1.91 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.001314286 | 0.002812571 | 2.81257E-05 | 0.000028 | 1.06 | 1 | 1.06 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.001314286 | 0.008924 | 0.00008924 | 0.000089 | 3.08 | 1 | 3.08 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.001314286 | 0.005506857 | 5.50686E-05 | 0.000055 | 6.47 | 1 | 6.47 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.001314286 | 0 | 0 | 0 | 3.61 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.001314286 | 0 | 0 | 0 | 6.13 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.001314286 | 0.003128 | 0.00003128 | 0.000031 | 4.11 | 1 | 4.11 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.001314286 | 0.002457714 | 2.45771E-05 | 0.000025 | 2.84 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.001314286 | | | | | | | 0.1 | 0 | | | |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.001314286 | 0.002510286 | 2.51029E-05 | 0.000025 | 3.64 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.001314286 | 0.006952571 | 6.95257E-05 | 0.00007 | 6.01 | 1 | 6.01 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.001314286 | 0.009752 | 0.00009752 | 0.000098 | 3.59 | 1 | 3.59 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.001314286 | 0.005270286 | 5.27029E-05 | 0.000053 | 4.81 | 1 | 4.81 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.001314286 | 0.007281143 | 7.28114E-05 | 0.000073 | 6.06 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.001314286 | 0 | 0 | 0 | 2.23 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.001314286 | 0.003969143 | 3.96914E-05 | 0.00004 | 3.1 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.001314286 | 0.012236 | 0.00012236 | 0.00012 | 7.81 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.001314286 | 0.007346857 | 7.34686E-05 | 0.000073 | 3.51 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.001314286 | 0.004849714 | 4.84971E-05 | 0.000048 | 5 | 1 | 5 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.001314286 | 0.016034286 | 0.000160343 | 0.00016 | 8.21 | 1 | 8.21 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.001314286 | 0 | 0 | 0 | 1.07 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.001314286 | 0.003141143 | 3.14114E-05 | 0.000031 | 2.22 | 1 | 2.22 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.001314286 | 0.006308571 | 6.30857E-05 | 0.000063 | 5.9 | 1 | 5.9 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.001314286 | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.001314286 | 0.000775429 | 7.75429E-06 | 0.0000078 | 0.81 | 1 | 0.81 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.001314286 | 0.001524571 | 1.52457E-05 | 0.000015 | 1.4 | 1 | 1.4 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.001314286 | 0.000256286 | 2.56286E-06 | 0.0000026 | 0.316 | 1 | 0.316 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.001314286 | 0.003088571 | 3.08857E-05 | 0.000031 | 2.33 | 1 | 2.33 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.001314286 | 0.00184 | 0.0000184 | 0.000018 | 1.8 | 1 | 1.8 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.001314286 | 0.002102857 | 2.10286E-05 | 0.000021 | 1.7 | 1 | 1.7 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.001314286 | 0.002891429 | 2.89143E-05 | 0.000029 | 2.7 | 1 | 2.7 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.001314286 | 0.000985714 | 9.85714E-06 | 0.0000099 | 1 | 1 | 1 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | 0.001314286 | | | | | | | 0.1 | 0 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.001314286 | 0 | 0 | 0 | 2.17 | 1 | 2.17 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.001314286 | 0 | 0 | 0 | 1.17 | 1 | 1.17 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.001314286 | 0.000709714 | 7.09714E-06 | 0.0000071 | 1.24 | 1 | 1.24 | 0.1 | 0 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.001314286 | 0.009883429 | 9.88343E-05 | 0.000099 | 3.99 | 1 | 3.99 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.001314286 | 0.001248571 | 1.24857E-05 | 0.000012 | 1.57 | 1 | 1.57 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.001314286 | 0.000486286 | 4.86286E-06 | 0.0000049 | 0.49 | 1 | 0.49 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.001314286 | 0.001445714 | 1.44571E-05 | 0.000014 | 2.1 | 1 | 2.1 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.001314286 | 0.001445714 | 1.44571E-05 | 0.000014 | 1.9 | 1 | 1.9 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.001314286 | 0.008286571 | 8.28657E-05 | 0.000083 | 3.67 | 1 | 3.67 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | 0.001314286 | | | | | | | 0.1 | 0 | | | |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.001314286 | 0.004954857 | 4.95486E-05 | 0.00005 | 2.59 | 1 | 2.59 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.001314286 | 0.00138 | 0.0000138 | 0.000014 | 1.83 | 1 | 1.83 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.001314286 | 0.003101714 | 3.10171E-05 | 0.000031 | 3.735 | 1 | 3.735 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | 0.001314286 | | | | | | | 0.1 | 0 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.001314286 | 0.004074286 | 4.07429E-05 | 0.000041 | 2.2 | 1 | 2.2 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.001314286 | 0 | 0 | 0 | 2.77 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.001314286 | 0 | 0 | 0 | 1.89 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.001314286 | 0 | 0 | 0 | 1.45 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.001314286 | 0.001577143 | 1.57714E-05 | 0.000016 | 1.5 | 1 | 1.5 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.001314286 | 0.001182857 | 1.18286E-05 | 0.000012 | 0.9 | 1 | 0.9 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.001314286 | 0.013142857 | 0.000131429 | 0.00013 | 5.42 | 1 | 5.42 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.001314286 | 0.001247257 | 1.24726E-05 | 0.000012 | 0.708 | 1 | 0.708 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.001314286 | 0.001629714 | 1.62971E-05 | 0.000016 | 0.989 | 1 | 0.989 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.001314286 | 0.002510286 | 2.51029E-05 | 0.000025 | 1.65 | 1 | 1.65 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.001314286 | 0.001721714 | 1.72171E-05 | 0.000017 | 1.1 | 1 | 1.1 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.001314286 | 0.003614286 | 3.61429E-05 | 0.000036 | 2.92 | 1 | 2.92 | 0.1 | 0 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.001314286 | 0.002286857 | 2.28686E-05 | 0.000023 | 1.83 | 1 | 1.83 | 0.1 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 14.71157569 | 1.912504839 | 0.019125048 | 0.019 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 14.71157569 | 45.31165312 | 0.453116531 | 0.45 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.71157569 | 9.85675571 | 0.098567557 | 0.099 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 14.71157569 | 49.43089431 | 0.494308943 | 0.49 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 14.71157569 | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 14.71157569 | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 14.71157569 | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 14.71157569 | 54.43283004 | 0.5443283 | 0.54 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 14.71157569 | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 14.71157569 | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 14.71157569 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 14.71157569 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 14.71157569 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 14.71157569 | | | | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.503966706 | 0.065515672 | 0.000655157 | 0.00066 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.503966706 | 1.552217454 | 0.015522175 | 0.016 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.503966706 | 0.337657693 | 0.003376577 | 0.0034 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.503966706 | 1.693328131 | 0.016933281 | 0.017 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.503966706 | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.503966706 | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.503966706 | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.503966706 | 1.864676811 | 0.018646768 | 0.019 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.503966706 | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.503966706 | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0.503966706 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.503966706 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.503966706 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.503966706 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 71.8 | 1 | 71.8 | 0.001 | 0.042395714 | 3.044012299 | 0.003044012 | 0.003 | 3000 | 1 | 3000 | 0.0001 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 135 | 1 | 135 | 0.001 | 0.042395714 | 5.723421453 | 0.005723421 | 0.0057 | 2990 | 1 | 2990 | 0.0001 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 140 | 1 | 140 | 0.001 | 0.042395714 | 5.935400025 | 0.0059354 | 0.0059 | 3160 | 1 | 3160 | 0.0001 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 63 | 1 | 63 | 0.001 | 0.042395714 | 2.670930011 | 0.00267093 | 0.0027 | 1750 | 1 | 1750 | 0.0001 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 94.7 | 1 | 94.7 | 0.001 | 0.042395714 | 4.01487416 | 0.004014874 | 0.004 | 2180 | 1 | 2180 | 0.0001 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 89.8 | 1 | 89.8 | 0.001 | 0.042395714 | 3.807135159 | 0.003807135 | 0.0038 | 3070 | 1 | 3070 | 0.0001 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 109 | 1 | 109 | 0.001 | 0.042395714 | 4.621132877 | 0.004621133 | 0.0046 | 2260 | 1 | 2260 | 0.0001 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 22.5 | 1 | 22.5 | 0.001 | 0.042395714 | 0.953903576 | 0.000953904 | 0.00095 | 1330 | 1 | 1330 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 119 | 1 | 119 | 0.001 | 0.042395714 | 5.045090022 | 0.00504509 | 0.005 | 6850 | 1 | 6850 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 120 | 1 | 120 | 0.001 | 0.042395714 | 5.087485736 | 0.005087486 | 0.0051 | 5880 | 1 | 5880 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 76.8 | 1 | 76.8 | 0.001 | 0.042395714 | 3.255990871 | 0.003255991 | 0.0033 | 2100 | 1 | 2100 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 105 | 1 | 105 | 0.001 | 0.042395714 | 4.451550019 | 0.00445155 | 0.0045 | 8070 | 1 | 8070 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 105 | 1 | 105 | 0.001 | 0.042395714 | 4.451550019 | 0.00445155 | 0.0045 | 6150 | 1 | 6150 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 109 | 1 | 109 | 0.001 | 0.042395714 | 4.621132877 | 0.004621133 | 0.0046 | 5690 | 1 | 5690 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.001 | 0.042395714 | | | | | | | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 67.2 | 1 | 67.2 | 0.001 | 0.042395714 | 2.848992012 | 0.002848992 | 0.0028 | 1940 | 1 | 1940 | 0.0001 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 111 | 1 | 111 | 0.001 | 0.042395714 | 4.705924306 | 0.004705924 | 0.0047 | 4010 | 1 | 4010 | 0.0001 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 63.8 | 1 | 63.8 | 0.001 | 0.042395714 | 2.704846583 | 0.002704847 | 0.0027 | 5000 | 1 | 5000 | 0.0001 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 55.5 | 1 | 55.5 | 0.001 | 0.042395714 | 2.352962153 | 0.002352962 | 0.0024 | 3670 | 1 | 3670 | 0.0001 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 178 | 1 | 178 | 0.001 | 0.042395714 | 7.546437175 | 0.007546437 | 0.0075 | 3230 | 1 | 3230 | 0.0001 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 131 | 1 | 131 | 0.001 | 0.042395714 | 5.553838595 | 0.005553839 | 0.0056 | 5170 | 1 | 5170 | 0.0001 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 51.8 | 1 | 51.8 | 0.001 | 0.042395714 | 2.196098009 | 0.002196098 | 0.0022 | 1590 | 1 | 1590 | 0.0001 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 126 | 1 | 126 | 0.001 | 0.042395714 | 5.341860023 | 0.00534186 | 0.0053 | 2920 | 1 | 2920 | 0.0001 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 45.8 | 1 | 45.8 | 0.001 | 0.042395714 | 1.941723723 | 0.001941724 | 0.0019 | 2100 | 1 | 2100 | 0.0001 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 26.5 | 1 | 26.5 | 0.001 | 0.042395714 | 1.123486433 | 0.001123486 | 0.0011 | 874 | 1 | 874 | 0.0001 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 66.2 | 1 | 66.2 | 0.001 | 0.042395714 | 2.806596298 | 0.002806596 | 0.0028 | 1600 | 1 | 1600 | 0.0001 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 50.2 | 1 | 50.2 | 0.001 | 0.042395714 | 2.128264866 | 0.002128265 | 0.0021 | 1680 | 1 | 1680 | 0.0001 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 87 | 1 | 87 | 0.001 | 0.042395714 | 3.688427159 | 0.003688427 | 0.0037 | 1690 | 1 | 1690 | 0.0001 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 123 | 1 | 123 | 0.001 | 0.042395714 | 5.214672879 | 0.005214673 | 0.0052 | 1920 | 1 | 1920 | 0.0001 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 51.1 | 1 | 51.1 | 0.001 | 0.042395714 | 2.166421009 | 0.002166421 | 0.0022 | 1840 | 1 | 1840 | 0.0001 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 64.9 | 1 | 64.9 | 0.001 | 0.042395714 | 2.751481869 | 0.002751482 | 0.0028 | 1200 | 1 | 1200 | 0.0001 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 81.2 | 1 | 81.2 | 0.001 | 0.042395714 | 3.442532015 | 0.003442532 | 0.0034 | 1320 | 1 | 1320 | 0.0001 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 425 | 1 | 425 | 0.001 | 0.042395714 | 18.01817865 | 0.018018179 | 0.018 | 6520 | 1 | 6520 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 64.4 | 1 | 64.4 | 0.001 | 0.042395714 | 2.730284012 | 0.002730284 | 0.0027 | 1260 | 1 | 1260 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 73.1 | 1 | 73.1 | 0.001 | 0.042395714 | 3.099126728 | 0.003099127 | 0.0031 | 2600 | 1 | 2600 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 96.6 | 1 | 96.6 | 0.001 | 0.042395714 | 4.095426017 | 0.004095426 | 0.0041 | 2390 | 1 | 2390 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 75.25 | 1 | 75.25 | 0.001 | 0.042395714 | 3.190277514 | 0.003190278 | 0.0032 | 2040 | 1 | 2040 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.001 | 0.042395714 | | | | | | | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 109 | 1 | 109 | 0.001 | 0.042395714 | 4.621132877 | 0.004621133 | 0.0046 | 2240 | 1 | 2240 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 125 | 1 | 125 | 0.001 | 0.042395714 | 5.299464308 | 0.005299464 | 0.0053 | 1880 | 1 | 1880 | 0.0001 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 136 | 1 | 136 | 0.001 | 0.042395714 | 5.765817167 | 0.005765817 | 0.0058 | 2410 | 1 | 2410 | 0.0001 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 97.8 | 1 | 97.8 | 0.001 | 0.042395714 | 4.146300875 | 0.004146301 | 0.0041 | 1750 | 1 | 1750 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 191 | 1 | 191 | 0.001 | 0.042395714 | 8.097581463 | 0.008097581 | 0.0081 | 3150 | 1 | 3150 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 61.8 | 1 | 61.8 | 0.001 | 0.042395714 | 2.620055154 | 0.002620055 | 0.0026 | 1950 | 1 | 1950 | 0.0001 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 162 | 1 | 162 | 0.001 | 0.042395714 | 6.868105744 | 0.006868106 | 0.0069 | 2830 | 1 | 2830 | 0.0001 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 161 | 1 | 161 | 0.001 | 0.042395714 | 6.825710029 | 0.00682571 | 0.0068 | 4240 | 1 | 4240 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 69.9 | 1 | 69.9 | 0.001 | 0.042395714 | 2.963460441 | 0.00296346 | 0.003 | 1480 | 1 | 1480 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 41.7 | 1 | 41.7 | 0.001 | 0.042395714 | 1.767901293 | 0.001767901 | 0.0018 | 872 | 1 | 872 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 141 | 1 | 141 | 0.001 | 0.042395714 | 5.97779574 | 0.005977796 | 0.006 | 2940 | 1 | 2940 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 99 | 1 | 99 | 0.001 | 0.042395714 | 4.197175732 | 0.004197176 | 0.0042 | 2540 | 1 | 2540 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 75.7 | 1 | 75.7 | 0.001 | 0.042395714 | 3.209355585 | 0.003209356 | 0.0032 | 2180 | 1 | 2180 | 0.0001 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 115 | 1 | 115 | 0.001 | 0.042395714 | 4.875507164 | 0.004875507 | 0.0049 | 2820 | 1 | 2820 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 58.4 | 1 | 58.4 | 0.001 | 0.042395714 | 2.475909725 | 0.00247591 | 0.0025 | 1460 | 1 | 1460 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 27.1 | 1 | 27.1 | 0.001 | 0.042395714 | 1.148923862 | 0.001148924 | 0.0011 | 441 | 1 | 441 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.001 | 0.042395714 | | | | | | | 0.0001 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 40.5 | 1 | 40.5 | 0.001 | 0.042395714 | 1.717026436 | 0.001717026 | 0.0017 | 2230 | 1 | 2230 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 166 | 1 | 166 | 0.001 | 0.042395714 | 7.037688601 | 0.007037689 | 0.007 | 3700 | 1 | 3700 | 0.0001 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 137 | 1 | 137 | 0.001 | 0.042395714 | 5.808212882 | 0.005808213 | 0.0058 | 1730 | 1 | 1730 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 105 | 1 | 105 | 0.001 | 0.042395714 | 4.451550019 | 0.00445155 | 0.0045 | 2100 | 1 | 2100 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 139 | 1 | 139 | 0.001 | 0.042395714 | 5.893004311 | 0.005893004 | 0.0059 | 2610 | 1 | 2610 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 82.5 | 1 | 82.5 | 0.001 | 0.042395714 | 3.497646444 | 0.003497646 | 0.0035 | 4440 | 1 | 4440 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 67 | 1 | 67 | 0.001 | 0.042395714 | 2.840512869 | 0.002840513 | 0.0028 | 1750 | 1 | 1750 | 0.0001 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 172 | 1 | 172 | 0.001 | 0.042395714 | 7.292062888 | 0.007292063 | 0.0073 | 2870 | 1 | 2870 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 111 | 1 | 111 | 0.001 | 0.042395714 | 4.705924306 | 0.004705924 | 0.0047 | 1470 | 1 | 1470 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 89.9 | 1 | 89.9 | 0.001 | 0.042395714 | 3.811374731 | 0.003811375 | 0.0038 | 2010 | 1 | 2010 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 296 | 1 | 296 | 0.001 | 0.042395714 | 12.54913148 | 0.012549131 | 0.013 | 5020 | 1 | 5020 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 25.6 | 1 | 25.6 | 0.001 | 0.042395714 | 1.08533029 | 0.00108533 | 0.0011 | 582 | 1 | 582 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 64 | 1 | 64 | 0.001 | 0.042395714 | 2.713325726 | 0.002713326 | 0.0027 | 1150 | 1 | 1150 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 135 | 1 | 135 | 0.001 | 0.042395714 | 5.723421453 | 0.005723421 | 0.0057 | 2010 | 1 | 2010 | 0.0001 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 71.9 | 1 | 71.9 | 0.001 | 0.042395714 | 3.04825187 | 0.003048252 | 0.003 | 1760 | 1 | 1760 | 0.0001 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 33.3 | 1 | 33.3 | 0.001 | 0.042395714 | 1.411777292 | 0.001411777 | 0.0014 | 2090 | 1 | 2090 | 0.0001 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 55.1 | 1 | 55.1 | 0.001 | 0.042395714 | 2.336003867 | 0.002336004 | 0.0023 | 2130 | 1 | 2130 | 0.0001 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 11.8 | 1 | 11.8 | 0.001 | 0.042395714 | 0.500269431 | 0.000500269 | 0.0005 | 1290 | 1 | 1290 | 0.0001 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 86.8 | 1 | 86.8 | 0.001 | 0.042395714 | 3.679948016 | 0.003679948 | 0.0037 | 2730 | 1 | 2730 | 0.0001 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 51.3 | 1 | 51.3 | 0.001 | 0.042395714 | 2.174900152 | 0.0021749 | 0.0022 | 2360 | 1 | 2360 | 0.0001 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 59.3 | 1 | 59.3 | 0.001 | 0.042395714 | 2.514065868 | 0.002514066 | 0.0025 | 1950 | 1 | 1950 | 0.0001 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 86.1 | 1 | 86.1 | 0.001 | 0.042395714 | 3.650271016 | 0.003650271 | 0.0037 | 3450 | 1 | 3450 | 0.0001 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 41.4 | 1 | 41.4 | 0.001 | 0.042395714 | 1.755182579 | 0.001755183 | 0.0018 | 2705 | 1 | 2705 | 0.0001 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.001 | 0.042395714 | | | | | | | 0.0001 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 52.2 | 1 | 52.2 | 0.001 | 0.042395714 | 2.213056295 | 0.002213056 | 0.0022 | 1890 | 1 | 1890 | 0.0001 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 38.2 | 1 | 38.2 | 0.001 | 0.042395714 | 1.619516293 | 0.001619516 | 0.0016 | 1010 | 1 | 1010 | 0.0001 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 36 | 1 | 36 | 0.001 | 0.042395714 | 1.526245721 | 0.001526246 | 0.0015 | 2170 | 1 | 2170 | 0.0001 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 168 | 1 | 168 | 0.001 | 0.042395714 | 7.12248003 | 0.00712248 | 0.0071 | 2980 | 1 | 2980 | 0.0001 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 55.2 | 1 | 55.2 | 0.001 | 0.042395714 | 2.340243439 | 0.002340243 | 0.0023 | 3220 | 1 | 3220 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 17.7 | 1 | 17.7 | 0.001 | 0.042395714 | 0.750404146 | 0.000750404 | 0.00075 | 1660 | 1 | 1660 | 0.0001 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 62.3 | 1 | 62.3 | 0.001 | 0.042395714 | 2.641253011 | 0.002641253 | 0.0026 | 2130 | 1 | 2130 | 0.0001 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 68.3 | 1 | 68.3 | 0.001 | 0.042395714 | 2.895627298 | 0.002895627 | 0.0029 | 2710 | 1 | 2710 | 0.0001 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 143.5 | 1 | 143.5 | 0.001 | 0.042395714 | 6.083785026 | 0.006083785 | 0.0061 | 2595 | 1 | 2595 | 0.0001 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.001 | 0.042395714 | | | | | | | 0.0001 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 106 | 1 | 106 | 0.001 | 0.042395714 | 4.493945733 | 0.004493946 | 0.0045 | 1750 | 1 | 1750 | 0.0001 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 41.3 | 1 | 41.3 | 0.001 | 0.042395714 | 1.750943007 | 0.001750943 | 0.0018 | 2380 | 1 | 2380 | 0.0001 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 59.2 | 1 | 59.2 | 0.001 | 0.042395714 | 2.509826296 | 0.002509826 | 0.0025 | 3240 | 1 | 3240 | 0.0001 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.001 | 0.042395714 | | | | | | | 0.0001 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 79.8 | 1 | 79.8 | 0.001 | 0.042395714 | 3.383178014 | 0.003383178 | 0.0034 | 1210 | 1 | 1210 | 0.0001 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 105 | 1 | 105 | 0.001 | 0.042395714 | 4.451550019 | 0.00445155 | 0.0045 | 2130 | 1 | 2130 | 0.0001 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 77.6 | 1 | 77.6 | 0.001 | 0.042395714 | 3.289907443 | 0.003289907 | 0.0033 | 1630 | 1 | 1630 | 0.0001 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 32.8 | 1 | 32.8 | 0.001 | 0.042395714 | 1.390579435 | 0.001390579 | 0.0014 | 977 | 1 | 977 | 0.0001 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 38.1 | 1 | 38.1 | 0.001 | 0.042395714 | 1.615276721 | 0.001615277 | 0.0016 | 924 | 1 | 924 | 0.0001 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 28.1 | 1 | 28.1 | 0.001 | 0.042395714 | 1.191319577 | 0.00119132 | 0.0012 | 899 | 1 | 899 | 0.0001 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 250 | 1 | 250 | 0.001 | 0.042395714 | 10.59892862 | 0.010598929 | 0.011 | 4200 | 1 | 4200 | 0.0001 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 25.5 | 1 | 25.5 | 0.001 | 0.042395714 | 1.081090719 | 0.001081091 | 0.0011 | 590 | 1 | 590 | 0.0001 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 40.8 | 1 | 40.8 | 0.001 | 0.042395714 | 1.72974515 | 0.001729745 | 0.0017 | 1080 | 1 | 1080 | 0.0001 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 58.8 | 1 | 58.8 | 0.001 | 0.042395714 | 2.492868011 | 0.002492868 | 0.0025 | 1320 | 1 | 1320 | 0.0001 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 27.9 | 1 | 27.9 | 0.001 | 0.042395714 | 1.182840434 | 0.00118284 | 0.0012 | 353 | 1 | 353 | 0.0001 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 135 | 1 | 135 | 0.001 | 0.042395714 | 5.723421453 | 0.005723421 | 0.0057 | 9960 | 1 | 9960 | 0.0001 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 48 | 1 | 48 | 0.001 | 0.042395714 | 2.034994294 | 0.002034994 | 0.002 | 1490 | 1 | 1490 | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 71.8 | 1 | 71.8 | 0.001 | 0.135883498 | 9.756435144 | 0.009756435 | 0.0098 | 3000 | 1 | 3000 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 135 | 1 | 135 | 0.001 | 0.135883498 | 18.34427221 | 0.018344272 | 0.018 | 2990 | 1 | 2990 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 140 | 1 | 140 | 0.001 | 0.135883498 | 19.0236897 | 0.01902369 | 0.019 | 3160 | 1 | 3160 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 63 | 1 | 63 | 0.001 | 0.135883498 | 8.560660363 | 0.00856066 | 0.0086 | 1750 | 1 | 1750 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 94.7 | 1 | 94.7 | 0.001 | 0.135883498 | 12.86816724 | 0.012868167 | 0.013 | 2180 | 1 | 2180 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 89.8 | 1 | 89.8 | 0.001 | 0.135883498 | 12.20233811 | 0.012202338 | 0.012 | 3070 | 1 | 3070 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 109 | 1 | 109 | 0.001 | 0.135883498 | 14.81130126 | 0.014811301 | 0.015 | 2260 | 1 | 2260 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 22.5 | 1 | 22.5 | 0.001 | 0.135883498 | 3.057378701 | 0.003057379 | 0.0031 | 1330 | 1 | 1330 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 119 | 1 | 119 | 0.001 | 0.135883498 | 16.17013624 | 0.016170136 | 0.016 | 6850 | 1 | 6850 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 120 | 1 | 120 | 0.001 | 0.135883498 | 16.30601974 | 0.01630602 | 0.016 | 5880 | 1 | 5880 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 76.8 | 1 | 76.8 | 0.001 | 0.135883498 | 10.43585263 | 0.010435853 | 0.01 | 2100 | 1 | 2100 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 105 | 1 | 105 | 0.001 | 0.135883498 | 14.26776727 | 0.014267767 | 0.014 | 8070 | 1 | 8070 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 105 | 1 | 105 | 0.001 | 0.135883498 | 14.26776727 | 0.014267767 | 0.014 | 6150 | 1 | 6150 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 109 | 1 | 109 | 0.001 | 0.135883498 | 14.81130126 | 0.014811301 | 0.015 | 5690 | 1 | 5690 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.001 | 0.135883498 | | | | | | | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 67.2 | 1 | 67.2 | 0.001 | 0.135883498 | 9.131371054 | 0.009131371 | 0.0091 | 1940 | 1 | 1940 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 111 | 1 | 111 | 0.001 | 0.135883498 | 15.08306826 | 0.015083068 | 0.015 | 4010 | 1 | 4010 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 63.8 | 1 | 63.8 | 0.001 | 0.135883498 | 8.669367162 | 0.008669367 | 0.0087 | 5000 | 1 | 5000 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 55.5 | 1 | 55.5 | 0.001 | 0.135883498 | 7.54153413 | 0.007541534 | 0.0075 | 3670 | 1 | 3670 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 178 | 1 | 178 | 0.001 | 0.135883498 | 24.18726261 | 0.024187263 | 0.024 | 3230 | 1 | 3230 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 131 | 1 | 131 | 0.001 | 0.135883498 | 17.80073822 | 0.017800738 | 0.018 | 5170 | 1 | 5170 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 51.8 | 1 | 51.8 | 0.001 | 0.135883498 | 7.038765188 | 0.007038765 | 0.007 | 1590 | 1 | 1590 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 126 | 1 | 126 | 0.001 | 0.135883498 | 17.12132073 | 0.017121321 | 0.017 | 2920 | 1 | 2920 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 45.8 | 1 | 45.8 | 0.001 | 0.135883498 | 6.223464201 | 0.006223464 | 0.0062 | 2100 | 1 | 2100 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 26.5 | 1 | 26.5 | 0.001 | 0.135883498 | 3.600912693 | 0.003600913 | 0.0036 | 874 | 1 | 874 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 66.2 | 1 | 66.2 | 0.001 | 0.135883498 | 8.995487557 | 0.008995488 | 0.009 | 1600 | 1 | 1600 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 50.2 | 1 | 50.2 | 0.001 | 0.135883498 | 6.821351591 | 0.006821352 | 0.0068 | 1680 | 1 | 1680 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 87 | 1 | 87 | 0.001 | 0.135883498 | 11.82186431 | 0.011821864 | 0.012 | 1690 | 1 | 1690 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 123 | 1 | 123 | 0.001 | 0.135883498 | 16.71367023 | 0.01671367 | 0.017 | 1920 | 1 | 1920 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 51.1 | 1 | 51.1 | 0.001 | 0.135883498 | 6.943646739 | 0.006943647 | 0.0069 | 1840 | 1 | 1840 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 64.9 | 1 | 64.9 | 0.001 | 0.135883498 | 8.818839009 | 0.008818839 | 0.0088 | 1200 | 1 | 1200 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 81.2 | 1 | 81.2 | 0.001 | 0.135883498 | 11.03374002 | 0.01103374 | 0.011 | 1320 | 1 | 1320 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 425 | 1 | 425 | 0.001 | 0.135883498 | 57.75048658 | 0.057750487 | 0.058 | 6520 | 1 | 6520 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 64.4 | 1 | 64.4 | 0.001 | 0.135883498 | 8.75089726 | 0.008750897 | 0.0088 | 1260 | 1 | 1260 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 73.1 | 1 | 73.1 | 0.001 | 0.135883498 | 9.933083692 | 0.009933084 | 0.0099 | 2600 | 1 | 2600 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 96.6 | 1 | 96.6 | 0.001 | 0.135883498 | 13.12634589 | 0.013126346 | 0.013 | 2390 | 1 | 2390 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 75.25 | 1 | 75.25 | 0.001 | 0.135883498 | 10.22523321 | 0.010225233 | 0.01 | 2040 | 1 | 2040 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.001 | 0.135883498 | | | | | | | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 109 | 1 | 109 | 0.001 | 0.135883498 | 14.81130126 | 0.014811301 | 0.015 | 2240 | 1 | 2240 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 125 | 1 | 125 | 0.001 | 0.135883498 | 16.98543723 | 0.016985437 | 0.017 | 1880 | 1 | 1880 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 136 | 1 | 136 | 0.001 | 0.135883498 | 18.48015571 | 0.018480156 | 0.018 | 2410 | 1 | 2410 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 97.8 | 1 | 97.8 | 0.001 | 0.135883498 | 13.28940609 | 0.013289406 | 0.013 | 1750 | 1 | 1750 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 191 | 1 | 191 | 0.001 | 0.135883498 | 25.95374809 | 0.025953748 | 0.026 | 3150 | 1 | 3150 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 61.8 | 1 | 61.8 | 0.001 | 0.135883498 | 8.397600166 | 0.0083976 | 0.0084 | 1950 | 1 | 1950 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 162 | 1 | 162 | 0.001 | 0.135883498 | 22.01312665 | 0.022013127 | 0.022 | 2830 | 1 | 2830 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 161 | 1 | 161 | 0.001 | 0.135883498 | 21.87724315 | 0.021877243 | 0.022 | 4240 | 1 | 4240 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 69.9 | 1 | 69.9 | 0.001 | 0.135883498 | 9.498256499 | 0.009498256 | 0.0095 | 1480 | 1 | 1480 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 41.7 | 1 | 41.7 | 0.001 | 0.135883498 | 5.66634186 | 0.005666342 | 0.0057 | 872 | 1 | 872 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 141 | 1 | 141 | 0.001 | 0.135883498 | 19.15957319 | 0.019159573 | 0.019 | 2940 | 1 | 2940 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 99 | 1 | 99 | 0.001 | 0.135883498 | 13.45246629 | 0.013452466 | 0.013 | 2540 | 1 | 2540 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 75.7 | 1 | 75.7 | 0.001 | 0.135883498 | 10.28638079 | 0.010286381 | 0.01 | 2180 | 1 | 2180 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 115 | 1 | 115 | 0.001 | 0.135883498 | 15.62660225 | 0.015626602 | 0.016 | 2820 | 1 | 2820 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 58.4 | 1 | 58.4 | 0.001 | 0.135883498 | 7.935596273 | 0.007935596 | 0.0079 | 1460 | 1 | 1460 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 27.1 | 1 | 27.1 | 0.001 | 0.135883498 | 3.682442791 | 0.003682443 | 0.0037 | 441 | 1 | 441 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.001 | 0.135883498 | | | | | | | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 40.5 | 1 | 40.5 | 0.001 | 0.135883498 | 5.503281662 | 0.005503282 | 0.0055 | 2230 | 1 | 2230 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 166 | 1 | 166 | 0.001 | 0.135883498 | 22.55666064 | 0.022556661 | 0.023 | 3700 | 1 | 3700 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 137 | 1 | 137 | 0.001 | 0.135883498 | 18.6160392 | 0.018616039 | 0.019 | 1730 | 1 | 1730 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 105 | 1 | 105 | 0.001 | 0.135883498 | 14.26776727 | 0.014267767 | 0.014 | 2100 | 1 | 2100 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 139 | 1 | 139 | 0.001 | 0.135883498 | 18.8878062 | 0.018887806 | 0.019 | 2610 | 1 | 2610 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 82.5 | 1 | 82.5 | 0.001 | 0.135883498 | 11.21038857 | 0.011210389 | 0.011 | 4440 | 1 | 4440 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 67 | 1 | 67 | 0.001 | 0.135883498 | 9.104194355 | 0.009104194 | 0.0091 | 1750 | 1 | 1750 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 172 | 1 | 172 | 0.001 | 0.135883498 | 23.37196163 | 0.023371962 | 0.023 | 2870 | 1 | 2870 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 111 | 1 | 111 | 0.001 | 0.135883498 | 15.08306826 | 0.015083068 | 0.015 | 1470 | 1 | 1470 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 89.9 | 1 | 89.9 | 0.001 | 0.135883498 | 12.21592646 | 0.012215926 | 0.012 | 2010 | 1 | 2010 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 296 | 1 | 296 | 0.001 | 0.135883498 | 40.22151536 | 0.040221515 | 0.04 | 5020 | 1 | 5020 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 25.6 | 1 | 25.6 | 0.001 | 0.135883498 | 3.478617545 | 0.003478618 | 0.0035 | 582 | 1 | 582 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 64 | 1 | 64 | 0.001 | 0.135883498 | 8.696543861 | 0.008696544 | 0.0087 | 1150 | 1 | 1150 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 135 | 1 | 135 | 0.001 | 0.135883498 | 18.34427221 | 0.018344272 | 0.018 | 2010 | 1 | 2010 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 71.9 | 1 | 71.9 | 0.001 | 0.135883498 | 9.770023494 | 0.009770023 | 0.0098 | 1760 | 1 | 1760 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 33.3 | 1 | 33.3 | 0.001 | 0.135883498 | 4.524920478 | 0.00452492 | 0.0045 | 2090 | 1 | 2090 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 55.1 | 1 | 55.1 | 0.001 | 0.135883498 | 7.487180731 | 0.007487181 | 0.0075 | 2130 | 1 | 2130 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 11.8 | 1 | 11.8 | 0.001 | 0.135883498 | 1.603425274 | 0.001603425 | 0.0016 | 1290 | 1 | 1290 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 86.8 | 1 | 86.8 | 0.001 | 0.135883498 | 11.79468761 | 0.011794688 | 0.012 | 2730 | 1 | 2730 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 51.3 | 1 | 51.3 | 0.001 | 0.135883498 | 6.970823439 | 0.006970823 | 0.007 | 2360 | 1 | 2360 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 59.3 | 1 | 59.3 | 0.001 | 0.135883498 | 8.057891422 | 0.008057891 | 0.0081 | 1950 | 1 | 1950 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 86.1 | 1 | 86.1 | 0.001 | 0.135883498 | 11.69956916 | 0.011699569 | 0.012 | 3450 | 1 | 3450 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 41.4 | 1 | 41.4 | 0.001 | 0.135883498 | 5.62557681 | 0.005625577 | 0.0056 | 2705 | 1 | 2705 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.001 | 0.135883498 | | | | | | | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 52.2 | 1 | 52.2 | 0.001 | 0.135883498 | 7.093118587 | 0.007093119 | 0.0071 | 1890 | 1 | 1890 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 38.2 | 1 | 38.2 | 0.001 | 0.135883498 | 5.190749617 | 0.00519075 | 0.0052 | 1010 | 1 | 1010 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 36 | 1 | 36 | 0.001 | 0.135883498 | 4.891805922 | 0.004891806 | 0.0049 | 2170 | 1 | 2170 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 168 | 1 | 168 | 0.001 | 0.135883498 | 22.82842764 | 0.022828428 | 0.023 | 2980 | 1 | 2980 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 55.2 | 1 | 55.2 | 0.001 | 0.135883498 | 7.50076908 | 0.007500769 | 0.0075 | 3220 | 1 | 3220 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 17.7 | 1 | 17.7 | 0.001 | 0.135883498 | 2.405137912 | 0.002405138 | 0.0024 | 1660 | 1 | 1660 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 62.3 | 1 | 62.3 | 0.001 | 0.135883498 | 8.465541915 | 0.008465542 | 0.0085 | 2130 | 1 | 2130 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 68.3 | 1 | 68.3 | 0.001 | 0.135883498 | 9.280842902 | 0.009280843 | 0.0093 | 2710 | 1 | 2710 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 143.5 | 1 | 143.5 | 0.001 | 0.135883498 | 19.49928194 | 0.019499282 | 0.019 | 2595 | 1 | 2595 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.001 | 0.135883498 | | | | | | | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 106 | 1 | 106 | 0.001 | 0.135883498 | 14.40365077 | 0.014403651 | 0.014 | 1750 | 1 | 1750 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 41.3 | 1 | 41.3 | 0.001 | 0.135883498 | 5.611988461 | 0.005611988 | 0.0056 | 2380 | 1 | 2380 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 59.2 | 1 | 59.2 | 0.001 | 0.135883498 | 8.044303072 | 0.008044303 | 0.008 | 3240 | 1 | 3240 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.001 | 0.135883498 | | | | | | | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 79.8 | 1 | 79.8 | 0.001 | 0.135883498 | 10.84350313 | 0.010843503 | 0.011 | 1210 | 1 | 1210 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 105 | 1 | 105 | 0.001 | 0.135883498 | 14.26776727 | 0.014267767 | 0.014 | 2130 | 1 | 2130 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 77.6 | 1 | 77.6 | 0.001 | 0.135883498 | 10.54455943 | 0.010544559 | 0.011 | 1630 | 1 | 1630 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 32.8 | 1 | 32.8 | 0.001 | 0.135883498 | 4.456978729 | 0.004456979 | 0.0045 | 977 | 1 | 977 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 38.1 | 1 | 38.1 | 0.001 | 0.135883498 | 5.177161267 | 0.005177161 | 0.0052 | 924 | 1 | 924 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 28.1 | 1 | 28.1 | 0.001 | 0.135883498 | 3.818326289 | 0.003818326 | 0.0038 | 899 | 1 | 899 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 250 | 1 | 250 | 0.001 | 0.135883498 | 33.97087446 | 0.033970874 | 0.034 | 4200 | 1 | 4200 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 25.5 | 1 | 25.5 | 0.001 | 0.135883498 | 3.465029195 | 0.003465029 | 0.0035 | 590 | 1 | 590 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 40.8 | 1 | 40.8 | 0.001 | 0.135883498 | 5.544046712 | 0.005544047 | 0.0055 | 1080 | 1 | 1080 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 58.8 | 1 | 58.8 | 0.001 | 0.135883498 | 7.989949673 | 0.00798995 | 0.008 | 1320 | 1 | 1320 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 27.9 | 1 | 27.9 | 0.001 | 0.135883498 | 3.79114959 | 0.00379115 | 0.0038 | 353 | 1 | 353 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 135 | 1 | 135 | 0.001 | 0.135883498 | 18.34427221 | 0.018344272 | 0.018 | 9960 | 1 | 9960 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 48 | 1 | 48 | 0.001 | 0.135883498 | 6.522407896 | 0.006522408 | 0.0065 | 1490 | 1 | 1490 | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 71.8 | 1 | 71.8 | 0.001 | 0.020682707 | 1.485018346 | 0.001485018 | 0.0015 | 3000 | 1 | 3000 | 0.0001 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 135 | 1 | 135 | 0.001 | 0.020682707 | 2.792165414 | 0.002792165 | 0.0028 | 2990 | 1 | 2990 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 140 | 1 | 140 | 0.001 | 0.020682707 | 2.895578947 | 0.002895579 | 0.0029 | 3160 | 1 | 3160 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 63 | 1 | 63 | 0.001 | 0.020682707 | 1.303010526 | 0.001303011 | 0.0013 | 1750 | 1 | 1750 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 94.7 | 1 | 94.7 | 0.001 | 0.020682707 | 1.958652331 | 0.001958652 | 0.002 | 2180 | 1 | 2180 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 89.8 | 1 | 89.8 | 0.001 | 0.020682707 | 1.857307068 | 0.001857307 | 0.0019 | 3070 | 1 | 3070 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 109 | 1 | 109 | 0.001 | 0.020682707 | 2.254415038 | 0.002254415 | 0.0023 | 2260 | 1 | 2260 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 22.5 | 1 | 22.5 | 0.001 | 0.020682707 | 0.465360902 | 0.000465361 | 0.00047 | 1330 | 1 | 1330 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 119 | 1 | 119 | 0.001 | 0.020682707 | 2.461242105 | 0.002461242 | 0.0025 | 6850 | 1 | 6850 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 120 | 1 | 120 | 0.001 | 0.020682707 | 2.481924812 | 0.002481925 | 0.0025 | 5880 | 1 | 5880 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 76.8 | 1 | 76.8 | 0.001 | 0.020682707 | 1.58843188 | 0.001588432 | 0.0016 | 2100 | 1 | 2100 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 105 | 1 | 105 | 0.001 | 0.020682707 | 2.171684211 | 0.002171684 | 0.0022 | 8070 | 1 | 8070 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 105 | 1 | 105 | 0.001 | 0.020682707 | 2.171684211 | 0.002171684 | 0.0022 | 6150 | 1 | 6150 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 109 | 1 | 109 | 0.001 | 0.020682707 | 2.254415038 | 0.002254415 | 0.0023 | 5690 | 1 | 5690 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.001 | 0.020682707 | | | | | | | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 67.2 | 1 | 67.2 | 0.001 | 0.020682707 | 1.389877895 | 0.001389878 | 0.0014 | 1940 | 1 | 1940 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 111 | 1 | 111 | 0.001 | 0.020682707 | 2.295780451 | 0.00229578 | 0.0023 | 4010 | 1 | 4010 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 63.8 | 1 | 63.8 | 0.001 | 0.020682707 | 1.319556692 | 0.001319557 | 0.0013 | 5000 | 1 | 5000 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 55.5 | 1 | 55.5 | 0.001 | 0.020682707 | 1.147890226 | 0.00114789 | 0.0011 | 3670 | 1 | 3670 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 178 | 1 | 178 | 0.001 | 0.020682707 | 3.681521805 | 0.003681522 | 0.0037 | 3230 | 1 | 3230 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 131 | 1 | 131 | 0.001 | 0.020682707 | 2.709434586 | 0.002709435 | 0.0027 | 5170 | 1 | 5170 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 51.8 | 1 | 51.8 | 0.001 | 0.020682707 | 1.071364211 | 0.001071364 | 0.0011 | 1590 | 1 | 1590 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 126 | 1 | 126 | 0.001 | 0.020682707 | 2.606021053 | 0.002606021 | 0.0026 | 2920 | 1 | 2920 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 45.8 | 1 | 45.8 | 0.001 | 0.020682707 | 0.94726797 | 0.000947268 | 0.00095 | 2100 | 1 | 2100 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 26.5 | 1 | 26.5 | 0.001 | 0.020682707 | 0.548091729 | 0.000548092 | 0.00055 | 874 | 1 | 874 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 66.2 | 1 | 66.2 | 0.001 | 0.020682707 | 1.369195188 | 0.001369195 | 0.0014 | 1600 | 1 | 1600 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 50.2 | 1 | 50.2 | 0.001 | 0.020682707 | 1.03827188 | 0.001038272 | 0.001 | 1680 | 1 | 1680 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 87 | 1 | 87 | 0.001 | 0.020682707 | 1.799395489 | 0.001799395 | 0.0018 | 1690 | 1 | 1690 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 123 | 1 | 123 | 0.001 | 0.020682707 | 2.543972932 | 0.002543973 | 0.0025 | 1920 | 1 | 1920 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 51.1 | 1 | 51.1 | 0.001 | 0.020682707 | 1.056886316 | 0.001056886 | 0.0011 | 1840 | 1 | 1840 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 64.9 | 1 | 64.9 | 0.001 | 0.020682707 | 1.342307669 | 0.001342308 | 0.0013 | 1200 | 1 | 1200 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 81.2 | 1 | 81.2 | 0.001 | 0.020682707 | 1.679435789 | 0.001679436 | 0.0017 | 1320 | 1 | 1320 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 425 | 1 | 425 | 0.001 | 0.020682707 | 8.790150376 | 0.00879015 | 0.0088 | 6520 | 1 | 6520 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 64.4 | 1 | 64.4 | 0.001 | 0.020682707 | 1.331966316 | 0.001331966 | 0.0013 | 1260 | 1 | 1260 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 73.1 | 1 | 73.1 | 0.001 | 0.020682707 | 1.511905865 | 0.001511906 | 0.0015 | 2600 | 1 | 2600 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 96.6 | 1 | 96.6 | 0.001 | 0.020682707 | 1.997949474 | 0.001997949 | 0.002 | 2390 | 1 | 2390 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 75.25 | 1 | 75.25 | 0.001 | 0.020682707 | 1.556373684 | 0.001556374 | 0.0016 | 2040 | 1 | 2040 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.001 | 0.020682707 | | | | | | | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 109 | 1 | 109 | 0.001 | 0.020682707 | 2.254415038 | 0.002254415 | 0.0023 | 2240 | 1 | 2240 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 125 | 1 | 125 | 0.001 | 0.020682707 | 2.585338346 | 0.002585338 | 0.0026 | 1880 | 1 | 1880 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | y/Field Duplic | 3/12/2009 | SO | 41 | 136 | 1 | 136 | 0.001 | 0.020682707 | 2.81284812 | 0.002812848 | 0.0028 | 2410 | 1 | 2410 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 97.8 | 1 | 97.8 | 0.001 | 0.020682707 | 2.022768722 | 0.002022769 | 0.002 | 1750 | 1 | 1750 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 191 | 1 | 191 | 0.001 | 0.020682707 | 3.950396992 | 0.003950397 | 0.004 | 3150 | 1 | 3150 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 61.8 | 1 | 61.8 | 0.001 | 0.020682707 | 1.278191278 | 0.001278191 | 0.0013 | 1950 | 1 | 1950 | 0.0001 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 162 | 1 | 162 | 0.001 | 0.020682707 | 3.350598496 | 0.003350598 | 0.0034 | 2830 | 1 | 2830 | 0.0001 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 161 | 1 | 161 | 0.001 | 0.020682707 | 3.329915789 | 0.003329916 | 0.0033 | 4240 | 1 | 4240 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 69.9 | 1 | 69.9 | 0.001 | 0.020682707 | 1.445721203 | 0.001445721 | 0.0014 | 1480 | 1 | 1480 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 41.7 | 1 | 41.7 | 0.001 | 0.020682707 | 0.862468872 | 0.000862469 | 0.00086 | 872 | 1 | 872 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 141 | 1 | 141 | 0.001 | 0.020682707 | 2.916261654 | 0.002916262 | 0.0029 | 2940 | 1 | 2940 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 99 | 1 | 99 | 0.001 | 0.020682707 | 2.04758797 | 0.002047588 | 0.002 | 2540 | 1 | 2540 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 75.7 | 1 | 75.7 | 0.001 | 0.020682707 | 1.565680902 | 0.001565681 | 0.0016 | 2180 | 1 | 2180 | 0.0001 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 115 | 1 | 115 | 0.001 | 0.020682707 | 2.378511278 | 0.002378511 | 0.0024 | 2820 | 1 | 2820 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 58.4 | 1 | 58.4 | 0.001 | 0.020682707 | 1.207870075 | 0.00120787 | 0.0012 | 1460 | 1 | 1460 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 27.1 | 1 | 27.1 | 0.001 | 0.020682707 | 0.560501353 | 0.000560501 | 0.00056 | 441 | 1 | 441 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.001 | 0.020682707 | | | | | | | 0.0001 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 40.5 | 1 | 40.5 | 0.001 | 0.020682707 | 0.837649624 | 0.00083765 | 0.00084 | 2230 | 1 | 2230 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 166 | 1 | 166 | 0.001 | 0.020682707 | 3.433329323 | 0.003433329 | 0.0034 | 3700 | 1 | 3700 | 0.0001 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 137 | 1 | 137 | 0.001 | 0.020682707 | 2.833530827 | 0.002833531 | 0.0028 | 1730 | 1 | 1730 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 105 | 1 | 105 | 0.001 | 0.020682707 | 2.171684211 | 0.002171684 | 0.0022 | 2100 | 1 | 2100 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 139 | 1 | 139 | 0.001 | 0.020682707 | 2.874896241 | 0.002874896 | 0.0029 | 2610 | 1 | 2610 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 82.5 | 1 | 82.5 | 0.001 | 0.020682707 | 1.706323308 | 0.001706323 | 0.0017 | 4440 | 1 | 4440 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 67 | 1 | 67 | 0.001 | 0.020682707 | 1.385741353 | 0.001385741 | 0.0014 | 1750 | 1 | 1750 | 0.0001 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 172 | 1 | 172 | 0.001 | 0.020682707 | 3.557425564 | 0.003557426 | 0.0036 | 2870 | 1 | 2870 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 111 | 1 | 111 | 0.001 | 0.020682707 | 2.295780451 | 0.00229578 | 0.0023 | 1470 | 1 | 1470 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 89.9 | 1 | 89.9 | 0.001 | 0.020682707 | 1.859375338 | 0.001859375 | 0.0019 | 2010 | 1 | 2010 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 296 | 1 | 296 | 0.001 | 0.020682707 | 6.122081203 | 0.006122081 | 0.0061 | 5020 | 1 | 5020 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 25.6 | 1 | 25.6 | 0.001 | 0.020682707 | 0.529477293 | 0.000529477 | 0.00053 | 582 | 1 | 582 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 64 | 1 | 64 | 0.001 | 0.020682707 | 1.323693233 | 0.001323693 | 0.0013 | 1150 | 1 | 1150 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 135 | 1 | 135 | 0.001 | 0.020682707 | 2.792165414 | 0.002792165 | 0.0028 | 2010 | 1 | 2010 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 71.9 | 1 | 71.9 | 0.001 | 0.020682707 | 1.487086617 | 0.001487087 | 0.0015 | 1760 | 1 | 1760 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 33.3 | 1 | 33.3 | 0.001 | 0.020682707 | 0.688734135 | 0.000688734 | 0.00069 | 2090 | 1 | 2090 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 55.1 | 1 | 55.1 | 0.001 | 0.020682707 | 1.139617143 | 0.001139617 | 0.0011 | 2130 | 1 | 2130 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 11.8 | 1 | 11.8 | 0.001 | 0.020682707 | 0.24405594 | 0.000244056 | 0.00024 | 1290 | 1 | 1290 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 86.8 | 1 | 86.8 | 0.001 | 0.020682707 | 1.795258947 | 0.001795259 | 0.0018 | 2730 | 1 | 2730 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 51.3 | 1 | 51.3 | 0.001 | 0.020682707 | 1.061022857 | 0.001061023 | 0.0011 | 2360 | 1 | 2360 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 59.3 | 1 | 59.3 | 0.001 | 0.020682707 | 1.226484511 | 0.001226485 | 0.0012 | 1950 | 1 | 1950 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 86.1 | 1 | 86.1 | 0.001 | 0.020682707 | 1.780781053 | 0.001780781 | 0.0018 | 3450 | 1 | 3450 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 41.4 | 1 | 41.4 | 0.001 | 0.020682707 | 0.85626406 | 0.000856264 | 0.00086 | 2705 | 1 | 2705 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.001 | 0.020682707 | | | | | | | 0.0001 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 52.2 | 1 | 52.2 | 0.001 | 0.020682707 | 1.079637293 | 0.001079637 | 0.0011 | 1890 | 1 | 1890 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 38.2 | 1 | 38.2 | 0.001 | 0.020682707 | 0.790079398 | 0.000790079 | 0.00079 | 1010 | 1 | 1010 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 36 | 1 | 36 | 0.001 | 0.020682707 | 0.744577444 | 0.000744577 | 0.00074 | 2170 | 1 | 2170 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 168 | 1 | 168 | 0.001 | 0.020682707 | 3.474694737 | 0.003474695 | 0.0035 | 2980 | 1 | 2980 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 55.2 | 1 | 55.2 | 0.001 | 0.020682707 | 1.141685414 | 0.001141685 | 0.0011 | 3220 | 1 | 3220 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 17.7 | 1 | 17.7 | 0.001 | 0.020682707 | 0.36608391 | 0.000366084 | 0.00037 | 1660 | 1 | 1660 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 62.3 | 1 | 62.3 | 0.001 | 0.020682707 | 1.288532632 | 0.001288533 | 0.0013 | 2130 | 1 | 2130 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 68.3 | 1 | 68.3 | 0.001 | 0.020682707 | 1.412628872 | 0.001412629 | 0.0014 | 2710 | 1 | 2710 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 143.5 | 1 | 143.5 | 0.001 | 0.020682707 | 2.967968421 | 0.002967968 | 0.003 | 2595 | 1 | 2595 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.001 | 0.020682707 | | | | | | | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 106 | 1 | 106 | 0.001 | 0.020682707 | 2.192366917 | 0.002192367 | 0.0022 | 1750 | 1 | 1750 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 41.3 | 1 | 41.3 | 0.001 | 0.020682707 | 0.854195789 | 0.000854196 | 0.00085 | 2380 | 1 | 2380 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 59.2 | 1 | 59.2 | 0.001 | 0.020682707 | 1.224416241 | 0.001224416 | 0.0012 | 3240 | 1 | 3240 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.001 | 0.020682707 | | | | | | | 0.0001 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 79.8 | 1 | 79.8 | 0.001 | 0.020682707 | 1.65048 | 0.00165048 | 0.0017 | 1210 | 1 | 1210 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 105 | 1 | 105 | 0.001 | 0.020682707 | 2.171684211 | 0.002171684 | 0.0022 | 2130 | 1 | 2130 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 77.6 | 1 | 77.6 | 0.001 | 0.020682707 | 1.604978045 | 0.001604978 | 0.0016 | 1630 | 1 | 1630 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 32.8 | 1 | 32.8 | 0.001 | 0.020682707 | 0.678392782 | 0.000678393 | 0.00068 | 977 | 1 | 977 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 38.1 | 1 | 38.1 | 0.001 | 0.020682707 | 0.788011128 | 0.000788011 | 0.00079 | 924 | 1 | 924 | 0.0001 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 28.1 | 1 | 28.1 | 0.001 | 0.020682707 | 0.58118406 | 0.000581184 | 0.00058 | 899 | 1 | 899 | 0.0001 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 250 | 1 | 250 | 0.001 | 0.020682707 | 5.170676692 | 0.005170677 | 0.0052 | 4200 | 1 | 4200 | 0.0001 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 25.5 | 1 | 25.5 | 0.001 | 0.020682707 | 0.527409023 | 0.000527409 | 0.00053 | 590 | 1 | 590 | 0.0001 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 40.8 | 1 | 40.8 | 0.001 | 0.020682707 | 0.843854436 | 0.000843854 | 0.00084 | 1080 | 1 | 1080 | 0.0001 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 58.8 | 1 | 58.8 | 0.001 | 0.020682707 | 1.216143158 | 0.001216143 | 0.0012 | 1320 | 1 | 1320 | 0.0001 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 27.9 | 1 | 27.9 | 0.001 | 0.020682707 | 0.577047519 | 0.000577048 | 0.00058 | 353 | 1 | 353 | 0.0001 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 135 | 1 | 135 | 0.001 | 0.020682707 | 2.792165414 | 0.002792165 | 0.0028 | 9960 | 1 | 9960 | 0.0001 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 48 | 1 | 48 | 0.001 | 0.020682707 | 0.992769925 | 0.00099277 | 0.00099 | 1490 | 1 | 1490 | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.001 | 0.394620209 | 0.974711916 | 0.000974712 | 0.00097 | 94.4 | 1 | 94.4 | 0.0001 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.001 | 0.394620209 | 21.15164319 | 0.021151643 | 0.021 | 995 | 1 | 995 | 0.0001 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.001 | 0.394620209 | 5.682531006 | 0.005682531 | 0.0057 | 487 | 1 | 487 | 0.0001 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.001 | 0.394620209 | 46.56518464 | 0.046565185 | 0.047 | 2100 | 1 | 2100 | 0.0001 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.001 | 0.394620209 | 3.571312889 | 0.003571313 | 0.0036 | 170 | 1 | 170 | 0.0001 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.001 | 0.394620209 | 1.089151776 | 0.001089152 | 0.0011 | 45.3 | 1 | 45.3 | 0.0001 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.001 | 0.394620209 | 5.090600693 | 0.005090601 | 0.0051 | 279 | 1 | 279 | 0.0001 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.001 | 0.394620209 | 37.13376165 | 0.037133762 | 0.037 | 2030 | 1 | 2030 | 0.0001 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.001 | 0.394620209 | 9.234112885 | 0.009234113 | 0.0092 | 371 | 1 | 371 | 0.0001 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.001 | 0.394620209 | 7.931866196 | 0.007931866 | 0.0079 | 307 | 1 | 307 | 0.0001 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.001 | 0.394620209 | | | | | | | 0.0001 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.001 | 0.394620209 | | | | | | | 0.0001 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.001 | 0.394620209 | | | | | | | 0.0001 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.001 | 0.394620209 | | | | | | | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.001 | 0.701358619 | 1.732355789 | 0.001732356 | 0.0017 | 94.4 | 1 | 94.4 | 0.0001 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.001 | 0.701358619 | 37.59282197 | 0.037592822 | 0.038 | 995 | 1 | 995 | 0.0001 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.001 | 0.701358619 | 10.09956411 | 0.010099564 | 0.01 | 487 | 1 | 487 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.001 | 0.701358619 | 82.76031703 | 0.082760317 | 0.083 | 2100 | 1 | 2100 | 0.0001 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.001 | 0.701358619 | 6.347295501 | 0.006347296 | 0.0063 | 170 | 1 | 170 | 0.0001 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.001 | 0.701358619 | 1.935749788 | 0.00193575 | 0.0019 | 45.3 | 1 | 45.3 | 0.0001 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.001 | 0.701358619 | 9.047526183 | 0.009047526 | 0.009 | 279 | 1 | 279 | 0.0001 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.001 | 0.701358619 | 65.99784604 | 0.065997846 | 0.066 | 2030 | 1 | 2030 | 0.0001 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.001 | 0.701358619 | 16.41179168 | 0.016411792 | 0.016 | 371 | 1 | 371 | 0.0001 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.001 | 0.701358619 | 14.09730824 | 0.014097308 | 0.014 | 307 | 1 | 307 | 0.0001 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.001 | 0.701358619 | | | | | | | 0.0001 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.001 | 0.701358619 | | | | | | | 0.0001 |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.001 | 0.701358619 | | | | | | | 0.0001 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.001 | 0.701358619 | | | | | | | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.001 | 0.110238153 | 0.272288238 | 0.000272288 | 0.00027 | 94.4 | 1 | 94.4 | 0.0001 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.001 | 0.110238153 | 5.908765012 | 0.005908765 | 0.0059 | 995 | 1 | 995 | 0.0001 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.001 | 0.110238153 | 1.587429406 | 0.001587429 | 0.0016 | 487 | 1 | 487 | 0.0001 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.001 | 0.110238153 | 13.00810208 | 0.013008102 | 0.013 | 2100 | 1 | 2100 | 0.0001 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.001 | 0.110238153 | 0.997655287 | 0.000997655 | 0.001 | 170 | 1 | 170 | 0.0001 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.001 | 0.110238153 | 0.304257303 | 0.000304257 | 0.0003 | 45.3 | 1 | 45.3 | 0.0001 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.001 | 0.110238153 | 1.422072176 | 0.001422072 | 0.0014 | 279 | 1 | 279 | 0.0001 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.001 | 0.110238153 | 10.37341022 | 0.01037341 | 0.01 | 2030 | 1 | 2030 | 0.0001 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.001 | 0.110238153 | 2.579572785 | 0.002579573 | 0.0026 | 371 | 1 | 371 | 0.0001 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.001 | 0.110238153 | 2.215786879 | 0.002215787 | 0.0022 | 307 | 1 | 307 | 0.0001 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.001 | 0.110238153 | | | | | | | 0.0001 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.001 | 0.110238153 | | | | | | | 0.0001 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.001 | 0.110238153 | | | | | | | 0.0001 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.001 | 0.110238153 | | | | | | | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.001 | 4.547920463 | 11.23336354 | 0.011233364 | 0.011 | 94.4 | 1 | 94.4 | 0.0001 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.001 | 4.547920463 | 243.7685368 | 0.243768537 | 0.24 | 995 | 1 | 995 | 0.0001 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.001 | 4.547920463 | 65.49005467 | 0.065490055 | 0.065 | 487 | 1 | 487 | 0.0001 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.001 | 4.547920463 | 536.6546146 | 0.536654615 | 0.54 | 2100 | 1 | 2100 | 0.0001 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.001 | 4.547920463 | 41.15868019 | 0.04115868 | 0.041 | 170 | 1 | 170 | 0.0001 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.001 | 4.547920463 | 12.55226048 | 0.01255226 | 0.013 | 45.3 | 1 | 45.3 | 0.0001 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.001 | 4.547920463 | 58.66817397 | 0.058668174 | 0.059 | 279 | 1 | 279 | 0.0001 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.001 | 4.547920463 | 427.9593156 | 0.427959316 | 0.43 | 2030 | 1 | 2030 | 0.0001 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.001 | 4.547920463 | 106.4213388 | 0.106421339 | 0.11 | 371 | 1 | 371 | 0.0001 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.001 | 4.547920463 | 91.41320131 | 0.091413201 | 0.091 | 307 | 1 | 307 | 0.0001 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.001 | 4.547920463 | | | | | | | 0.0001 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.001 | 4.547920463 | | | | | | | 0.0001 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.001 | 4.547920463 | | | | | | | 0.0001 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.001 | 4.547920463 | | | | | | | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.001 | NA | 0 | 0 | 0 | 94.4 | 1 | 94.4 | 0.0001 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.001 | NA | 0 | 0 | 0 | 995 | 1 | 995 | 0.0001 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.001 | NA | 0 | 0 | 0 | 487 | 1 | 487 | 0.0001 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.001 | NA | 0 | 0 | 0 | 2100 | 1 | 2100 | 0.0001 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.001 | NA | 0 | 0 | 0 | 170 | 1 | 170 | 0.0001 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.001 | NA | 0 | 0 | 0 | 45.3 | 1 | 45.3 | 0.0001 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.001 | NA | 0 | 0 | 0 | 279 | 1 | 279 | 0.0001 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.001 | NA | 0 | 0 | 0 | 2030 | 1 | 2030 | 0.0001 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.001 | NA | 0 | 0 | 0 | 371 | 1 | 371 | 0.0001 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.001 | NA | 0 | 0 | 0 | 307 | 1 | 307 | 0.0001 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.001 | NA | 0 | 0 | 0 | 94.4 | 1 | 94.4 | 0.0001 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.001 | NA | 0 | 0 | 0 | 995 | 1 | 995 | 0.0001 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.001 | NA | 0 | 0 | 0 | 487 | 1 | 487 | 0.0001 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.001 | NA | 0 | 0 | 0 | 2100 | 1 | 2100 | 0.0001 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.001 | NA | 0 | 0 | 0 | 170 | 1 | 170 | 0.0001 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.001 | NA | 0 | 0 | 0 | 45.3 | 1 | 45.3 | 0.0001 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.001 | NA | 0 | 0 | 0 | 279 | 1 | 279 | 0.0001 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.001 | NA | 0 | 0 | 0 | 2030 | 1 | 2030 | 0.0001 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.001 | NA | 0 | 0 | 0 | 371 | 1 | 371 | 0.0001 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.001 | NA | 0 | 0 | 0 | 307 | 1 | 307 | 0.0001 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.001 | NA | 0 | 0 | 0 | 94.4 | 1 | 94.4 | 0.0001 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.001 | NA | 0 | 0 | 0 | 995 | 1 | 995 | 0.0001 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.001 | NA | 0 | 0 | 0 | 487 | 1 | 487 | 0.0001 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.001 | NA | 0 | 0 | 0 | 2100 | 1 | 2100 | 0.0001 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.001 | NA | 0 | 0 | 0 | 170 | 1 | 170 | 0.0001 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.001 | NA | 0 | 0 | 0 | 45.3 | 1 | 45.3 | 0.0001 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.001 | NA | 0 | 0 | 0 | 279 | 1 | 279 | 0.0001 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.001 | NA | 0 | 0 | 0 | 2030 | 1 | 2030 | 0.0001 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.001 | NA | 0 | 0 | 0 | 371 | 1 | 371 | 0.0001 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.001 | NA | 0 | 0 | 0 | 307 | 1 | 307 | 0.0001 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.001 | 0.195560414 | 0.483034223 | 0.000483034 | 0.00048 | 94.4 | 1 | 94.4 | 0.0001 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.001 | 0.195560414 | 10.4820382 | 0.010482038 | 0.01 | 995 | 1 | 995 | 0.0001 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.001 | 0.195560414 | 2.816069964 | 0.00281607 | 0.0028 | 487 | 1 | 487 | 0.0001 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.001 | 0.195560414 | 23.07612888 | 0.023076129 | 0.023 | 2100 | 1 | 2100 | 0.0001 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.001 | 0.195560414 | 1.769821749 | 0.001769822 | 0.0018 | 170 | 1 | 170 | 0.0001 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.001 | 0.195560414 | 0.539746743 | 0.000539747 | 0.00054 | 45.3 | 1 | 45.3 | 0.0001 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.001 | 0.195560414 | 2.522729343 | 0.002522729 | 0.0025 | 279 | 1 | 279 | 0.0001 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.001 | 0.195560414 | 18.40223498 | 0.018402235 | 0.018 | 2030 | 1 | 2030 | 0.0001 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.001 | 0.195560414 | 4.576113692 | 0.004576114 | 0.0046 | 371 | 1 | 371 | 0.0001 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.001 | 0.195560414 | 3.930764325 | 0.003930764 | 0.0039 | 307 | 1 | 307 | 0.0001 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.001 | 0.195560414 | | | | | | | 0.0001 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.001 | 0.195560414 | | | | | | | 0.0001 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.001 | 0.195560414 | | | | | | | 0.0001 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.001 | 0.195560414 | | | | | | | 0.0001 |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.001 | NA | 0 | 0 | 0 | 94.4 | 1 | 94.4 | 0.0001 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.001 | NA | 0 | 0 | 0 | 995 | 1 | 995 | 0.0001 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.001 | NA | 0 | 0 | 0 | 487 | 1 | 487 | 0.0001 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.001 | NA | 0 | 0 | 0 | 2100 | 1 | 2100 | 0.0001 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.001 | NA | 0 | 0 | 0 | 170 | 1 | 170 | 0.0001 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.001 | NA | 0 | 0 | 0 | 45.3 | 1 | 45.3 | 0.0001 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.001 | NA | 0 | 0 | 0 | 279 | 1 | 279 | 0.0001 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.001 | NA | 0 | 0 | 0 | 2030 | 1 | 2030 | 0.0001 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.001 | NA | 0 | 0 | 0 | 371 | 1 | 371 | 0.0001 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.001 | NA | 0 | 0 | 0 | 307 | 1 | 307 | 0.0001 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.001 | 0.551942941 | 1.363299065 | 0.001363299 | 0.0014 | 94.4 | 1 | 94.4 | 0.0001 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.001 | 0.551942941 | 29.58414166 | 0.029584142 | 0.03 | 995 | 1 | 995 | 0.0001 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.001 | 0.551942941 | 7.947978356 | 0.007947978 | 0.0079 | 487 | 1 | 487 | 0.0001 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.001 | 0.551942941 | 65.12926708 | 0.065129267 | 0.065 | 2100 | 1 | 2100 | 0.0001 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.001 | 0.551942941 | 4.995083619 | 0.004995084 | 0.005 | 170 | 1 | 170 | 0.0001 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.001 | 0.551942941 | 1.523362518 | 0.001523363 | 0.0015 | 45.3 | 1 | 45.3 | 0.0001 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.001 | 0.551942941 | 7.120063944 | 0.007120064 | 0.0071 | 279 | 1 | 279 | 0.0001 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.001 | 0.551942941 | 51.93783078 | 0.051937831 | 0.052 | 2030 | 1 | 2030 | 0.0001 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.001 | 0.551942941 | 12.91546483 | 0.012915465 | 0.013 | 371 | 1 | 371 | 0.0001 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.001 | 0.551942941 | 11.09405312 | 0.011094053 | 0.011 | 307 | 1 | 307 | 0.0001 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.001 | 0.551942941 | | | | | | | 0.0001 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.001 | 0.551942941 | | | | | | | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.001 | 0.551942941 | | | | | | | 0.0001 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.001 | 0.551942941 | | | | | | | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.001 | NA | 0 | 0 | 0 | 94.4 | 1 | 94.4 | 0.0001 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.001 | NA | 0 | 0 | 0 | 995 | 1 | 995 | 0.0001 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.001 | NA | 0 | 0 | 0 | 487 | 1 | 487 | 0.0001 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.001 | NA | 0 | 0 | 0 | 2100 | 1 | 2100 | 0.0001 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.001 | NA | 0 | 0 | 0 | 170 | 1 | 170 | 0.0001 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.001 | NA | 0 | 0 | 0 | 45.3 | 1 | 45.3 | 0.0001 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.001 | NA | 0 | 0 | 0 | 279 | 1 | 279 | 0.0001 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.001 | NA | 0 | 0 | 0 | 2030 | 1 | 2030 | 0.0001 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.001 | NA | 0 | 0 | 0 | 371 | 1 | 371 | 0.0001 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.001 | NA | 0 | 0 | 0 | 307 | 1 | 307 | 0.0001 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.025644517 | 76.9335512 | 0.007693355 | 0.0077 | 38.6 | 1 | 38.6 | 1 | 0.040140658 | 1.549429406 | 1.549429406 | 1.5 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.025644517 | 76.67710603 | 0.007667711 | 0.0077 | 11.8 | 1 | 11.8 | 1 | 0.040140658 | 0.473659766 | 0.473659766 | 0.47 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.025644517 | 81.03667393 | 0.008103667 | 0.0081 | 81 | 1 | 81 | 1 | 0.040140658 | 3.251393312 | 3.251393312 | 3.3 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.025644517 | 44.87790487 | 0.00448779 | 0.0045 | 23.1 | 1 | 23.1 | 1 | 0.040140658 | 0.927249204 | 0.927249204 | 0.93 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.025644517 | 55.9050472 | 0.005590505 | 0.0056 | 13.7 | 1 | 13.7 | 1 | 0.040140658 | 0.549927017 | 0.549927017 | 0.55 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.025644517 | 78.72866739 | 0.007872867 | 0.0079 | 14.1 | 1 | 14.1 | 1 | 0.040140658 | 0.56598328 | 0.56598328 | 0.57 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.025644517 | 57.95660857 | 0.005795661 | 0.0058 | 10.8 | 1 | 10.8 | 1 | 0.040140658 | 0.433519108 | 0.433519108 | 0.43 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.025644517 | 34.1072077 | 0.003410721 | 0.0034 | 1.71 | 1 | 1.71 | 1 | 0.040140658 | 0.068640525 | 0.068640525 | 0.069 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.025644517 | 175.6649419 | 0.017566494 | 0.018 | 30 | 1 | 30 | 1 | 0.040140658 | 1.204219745 | 1.204219745 | 1.2 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.025644517 | 150.7897603 | 0.015078976 | 0.015 | 22.9 | 1 | 22.9 | 1 | 0.040140658 | 0.919221072 | 0.919221072 | 0.92 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.025644517 | 53.85348584 | 0.005385349 | 0.0054 | 17.7 | 1 | 17.7 | 1 | 0.040140658 | 0.71048965 | 0.71048965 | 0.71 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.025644517 | 206.9512527 | 0.020695125 | 0.021 | 23.3 | 1 | 23.3 | 1 | 0.040140658 | 0.935277335 | 0.935277335 | 0.94 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.025644517 | 157.71378 | 0.015771378 | 0.016 | 23.4 | 1 | 23.4 | 1 | 0.040140658 | 0.939291401 | 0.939291401 | 0.94 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.025644517 | 145.9173021 | 0.01459173 | 0.015 | 23 | 1 | 23 | 1 | 0.040140658 | 0.923235138 | 0.923235138 | 0.92 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.025644517 | | | | | | | 1 | 0.040140658 | | | |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.025644517 | 49.75036311 | 0.004975036 | 0.005 | 15.2 | 1 | 15.2 | 1 | 0.040140658 | 0.610138004 | 0.610138004 | 0.61 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.025644517 | 102.8345134 | 0.010283451 | 0.01 | 7.65 | 0 | 0 | 1 | 0.040140658 | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.025644517 | 128.2225853 | 0.012822259 | 0.013 | 4.17 | 1 | 4.17 | 1 | 0.040140658 | 0.167386545 | 0.167386545 | 0.17 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.025644517 | 94.11537763 | 0.009411538 | 0.0094 | 3.83 | 1 | 3.83 | 1 | 0.040140658 | 0.153738721 | 0.153738721 | 0.15 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.025644517 | 82.83179012 | 0.008283179 | 0.0083 | 22.6 | 1 | 22.6 | 1 | 0.040140658 | 0.907178875 | 0.907178875 | 0.91 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.025644517 | 132.5821532 | 0.013258215 | 0.013 | 21 | 1 | 21 | 1 | 0.040140658 | 0.842953822 | 0.842953822 | 0.84 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.025644517 | 40.77478214 | 0.004077478 | 0.0041 | 5.37 | 1 | 5.37 | 1 | 0.040140658 | 0.215555334 | 0.215555334 | 0.22 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.025644517 | 74.88198983 | 0.007488199 | 0.0075 | 11.5 | 1 | 11.5 | 1 | 0.040140658 | 0.461617569 | 0.461617569 | 0.46 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.025644517 | 53.85348584 | 0.005385349 | 0.0054 | 36.3 | 1 | 36.3 | 1 | 0.040140658 | 1.457105892 | 1.457105892 | 1.5 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.025644517 | 22.41330792 | 0.002241331 | 0.0022 | 20.9 | 1 | 20.9 | 1 | 0.040140658 | 0.838939756 | 0.838939756 | 0.84 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.025644517 | 41.03122731 | 0.004103123 | 0.0041 | 56.8 | 0 | 0 | 1 | 0.040140658 | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0.025644517 | 43.08278867 | 0.004308279 | 0.0043 | 33.7 | 1 | 33.7 | 1 | 0.040140658 | 1.35274018 | 1.35274018 | 1.4 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.025644517 | 43.33923384 | 0.004333923 | 0.0043 | 61 | 1 | 61 | 1 | 0.040140658 | 2.448580149 | 2.448580149 | 2.4 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.025644517 | 49.23747277 | 0.004923747 | 0.0049 | 36.6 | 0 | 0 | 1 | 0.040140658 | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.025644517 | 47.1859114 | 0.004718591 | 0.0047 | 8.14 | 1 | 8.14 | 1 | 0.040140658 | 0.326744958 | 0.326744958 | 0.33 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.025644517 | 30.77342048 | 0.003077342 | 0.0031 | 12.6 | 1 | 12.6 | 1 | 0.040140658 | 0.505772293 | 0.505772293 | 0.51 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.025644517 | 33.85076253 | 0.003385076 | 0.0034 | 12.6 | 1 | 12.6 | 1 | 0.040140658 | 0.505772293 | 0.505772293 | 0.51 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.025644517 | 167.2022513 | 0.016720225 | 0.017 | 17.4 | 1 | 17.4 | 1 | 0.040140658 | 0.698447452 | 0.698447452 | 0.7 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.025644517 | 32.3120915 | 0.003231209 | 0.0032 | 14 | 1 | 14 | 1 | 0.040140658 | 0.561969214 | 0.561969214 | 0.56 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.025644517 | 66.67574437 | 0.006667574 | 0.0067 | 12.1 | 1 | 12.1 | 1 | 0.040140658 | 0.485701964 | 0.485701964 | 0.49 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.025644517 | 61.29039579 | 0.00612904 | 0.0061 | 19.1 | 1 | 19.1 | 1 | 0.040140658 | 0.766686571 | 0.766686571 | 0.77 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.025644517 | 52.31481481 | 0.005231481 | 0.0052 | 27.5 | 1 | 27.5 | 1 | 0.040140658 | 1.1038681 | 1.1038681 | 1.1 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0.025644517 | | | | | | | 1 | 0.040140658 | | | |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.025644517 | 57.44371823 | 0.005744372 | 0.0057 | 17.7 | 1 | 17.7 | 1 | 0.040140658 | 0.71048965 | 0.71048965 | 0.71 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.025644517 | 48.21169208 | 0.004821169 | 0.0048 | 13.1 | 1 | 13.1 | 1 | 0.040140658 | 0.525842622 | 0.525842622 | 0.53 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 0.025644517 | 61.80328613 | 0.006180329 | 0.0062 | 22.1 | 1 | 22.1 | 1 | 0.040140658 | 0.887108546 | 0.887108546 | 0.89 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.025644517 | 44.87790487 | 0.00448779 | 0.0045 | 68.5 | 1 | 68.5 | 1 | 0.040140658 | 2.749635085 | 2.749635085 | 2.7 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.025644517 | 80.78022876 | 0.008078023 | 0.0081 | 38.4 | 1 | 38.4 | 1 | 0.040140658 | 1.541401274 | 1.541401274 | 1.5 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.025644517 | 50.00680828 | 0.005000681 | 0.005 | 79.9 | 1 | 79.9 | 1 | 0.040140658 | 3.207238588 | 3.207238588 | 3.2 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.025644517 | 72.5739833 | 0.007257398 | 0.0073 | 88.9 | 1 | 88.9 | 1 | 0.040140658 | 3.568504512 | 3.568504512 | 3.6 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.025644517 | 108.7327524 | 0.010873275 | 0.011 | 140 | 1 | 140 | 1 | 0.040140658 | 5.619692144 | 5.619692144 | 5.6 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.025644517 | 37.95388526 | 0.003795389 | 0.0038 | 70.6 | 1 | 70.6 | 1 | 0.040140658 | 2.833930467 | 2.833930467 | 2.8 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.025644517 | 22.36201888 | 0.002236202 | 0.0022 | 63.9 | 1 | 63.9 | 1 | 0.040140658 | 2.564988057 | 2.564988057 | 2.6 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.025644517 | 75.39488017 | 0.007539488 | 0.0075 | 69 | 1 | 69 | 1 | 0.040140658 | 2.769705414 | 2.769705414 | 2.8 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.025644517 | 65.13707335 | 0.006513707 | 0.0065 | 32.5 | 1 | 32.5 | 1 | 0.040140658 | 1.304571391 | 1.304571391 | 1.3 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.025644517 | 55.9050472 | 0.005590505 | 0.0056 | 97.7 | 1 | 97.7 | 1 | 0.040140658 | 3.921742304 | 3.921742304 | 3.9 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.025644517 | 72.31753813 | 0.007231754 | 0.0072 | 28.9 | 1 | 28.9 | 1 | 0.040140658 | 1.160065021 | 1.160065021 | 1.2 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.025644517 | 37.44099492 | 0.003744099 | 0.0037 | 26.3 | 1 | 26.3 | 1 | 0.040140658 | 1.05569931 | 1.05569931 | 1.1 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.025644517 | 11.30923203 | 0.001130923 | 0.0011 | 117 | 1 | 117 | 1 | 0.040140658 | 4.696457006 | 4.696457006 | 4.7 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.025644517 | | | | | | | 1 | 0.040140658 | | | |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.025644517 | 57.18727306 | 0.005718727 | 0.0057 | 94.9 | 1 | 94.9 | 1 | 0.040140658 | 3.809348461 | 3.809348461 | 3.8 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.025644517 | 94.88471314 | 0.009488471 | 0.0095 | 304 | 0 | 0 | 1 | 0.040140658 | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.025644517 | 44.36501452 | 0.004436501 | 0.0044 | 122 | 1 | 122 | 1 | 0.040140658 | 4.897160297 | 4.897160297 | 4.9 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.025644517 | 53.85348584 | 0.005385349 | 0.0054 | 76.4 | 1 | 76.4 | 1 | 0.040140658 | 3.066746285 | 3.066746285 | 3.1 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.025644517 | 66.93218954 | 0.006693219 | 0.0067 | 35.6 | 1 | 35.6 | 1 | 0.040140658 | 1.429007431 | 1.429007431 | 1.4 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.025644517 | 113.8616558 | 0.011386166 | 0.011 | 29.1 | 1 | 29.1 | 1 | 0.040140658 | 1.168093153 | 1.168093153 | 1.2 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.025644517 | 44.87790487 | 0.00448779 | 0.0045 | 30.5 | 1 | 30.5 | 1 | 0.040140658 | 1.224290074 | 1.224290074 | 1.2 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.025644517 | 73.59976398 | 0.007359976 | 0.0074 | 279 | 1 | 279 | 1 | 0.040140658 | 11.19924363 | 11.19924363 | 11 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.025644517 | 37.69744009 | 0.003769744 | 0.0038 | 437 | 1 | 437 | 1 | 0.040140658 | 17.54146762 | 17.54146762 | 18 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.025644517 | 51.5454793 | 0.005154548 | 0.0052 | 26.8 | 1 | 26.8 | 1 | 0.040140658 | 1.075769639 | 1.075769639 | 1.1 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.025644517 | 128.7354757 | 0.012873548 | 0.013 | 602 | 0 | 0 | 1 | 0.040140658 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.025644517 | 14.92510893 | 0.001492511 | 0.0015 | 108 | 1 | 108 | 1 | 0.040140658 | 4.335191083 | 4.335191083 | 4.3 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.025644517 | 29.49119463 | 0.002949119 | 0.0029 | 16.6 | 1 | 16.6 | 1 | 0.040140658 | 0.666334926 | 0.666334926 | 0.67 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.025644517 | 51.5454793 | 0.005154548 | 0.0052 | 47.6 | 1 | 47.6 | 1 | 0.040140658 | 1.910695329 | 1.910695329 | 1.9 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.025644517 | 45.13435004 | 0.004513435 | 0.0045 | 6.81 | 1 | 6.81 | 1 | 0.040140658 | 0.273357882 | 0.273357882 | 0.27 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.025644517 | 53.59704067 | 0.005359704 | 0.0054 | 1.24 | 1 | 1.24 | 1 | 0.040140658 | 0.049774416 | 0.049774416 | 0.05 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.025644517 | 54.62282135 | 0.005462282 | 0.0055 | 4.18 | 1 | 4.18 | 1 | 0.040140658 | 0.167787951 | 0.167787951 | 0.17 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.025644517 | 33.08142702 | 0.003308143 | 0.0033 | 0.58 | 0 | 0 | 1 | 0.040140658 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.025644517 | 70.00953159 | 0.007000953 | 0.007 | 10.2 | 1 | 10.2 | 1 | 0.040140658 | 0.409434713 | 0.409434713 | 0.41 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.025644517 | 60.52106028 | 0.006052106 | 0.0061 | 4.32 | 0 | 0 | 1 | 0.040140658 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.025644517 | 50.00680828 | 0.005000681 | 0.005 | 20.8 | 1 | 20.8 | 1 | 0.040140658 | 0.83492569 | 0.83492569 | 0.83 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.025644517 | 88.47358388 | 0.008847358 | 0.0088 | 24.1 | 1 | 24.1 | 1 | 0.040140658 | 0.967389862 | 0.967389862 | 0.97 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.025644517 | 69.36841866 | 0.006936842 | 0.0069 | 4.7 | 1 | 4.7 | 1 | 0.040140658 | 0.188661093 | 0.188661093 | 0.19 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | 0.025644517 | | | | | | | 1 | 0.040140658 | | | |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.025644517 | 48.46813725 | 0.004846814 | 0.0048 | 22.7 | 1 | 22.7 | 1 | 0.040140658 | 0.911192941 | 0.911192941 | 0.91 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.025644517 | 25.90096224 | 0.002590096 | 0.0026 | 8.27 | 1 | 8.27 | 1 | 0.040140658 | 0.331963243 | 0.331963243 | 0.33 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.025644517 | 55.64860203 | 0.00556486 | 0.0056 | 3.8 | 1 | 3.8 | 1 | 0.040140658 | 0.152534501 | 0.152534501 | 0.15 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.025644517 | 76.42066086 | 0.007642066 | 0.0076 | 683 | 1 | 683 | 1 | 0.040140658 | 27.41606953 | 27.41606953 | 27 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.025644517 | 82.57534495 | 0.008257534 | 0.0083 | 1.28 | 1 | 1.28 | 1 | 0.040140658 | 0.051380042 | 0.051380042 | 0.051 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.025644517 | 42.56989833 | 0.00425699 | 0.0043 | 2.1 | 1 | 2.1 | 1 | 0.040140658 | 0.084295382 | 0.084295382 | 0.084 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.025644517 | 54.62282135 | 0.005462282 | 0.0055 | 3 | 1 | 3 | 1 | 0.040140658 | 0.120421975 | 0.120421975 | 0.12 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.025644517 | 69.49664125 | 0.006949664 | 0.0069 | 2.1 | 1 | 2.1 | 1 | 0.040140658 | 0.084295382 | 0.084295382 | 0.084 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.025644517 | 66.54752179 | 0.006654752 | 0.0067 | 422.6 | 1 | 422.6 | 1 | 0.040140658 | 16.96344214 | 16.96344214 | 17 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | 0.025644517 | | | | | | | 1 | 0.040140658 | | | |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.025644517 | 44.87790487 | 0.00448779 | 0.0045 | 182 | 1 | 182 | 1 | 0.040140658 | 7.305599788 | 7.305599788 | 7.3 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.025644517 | 61.03395062 | 0.006103395 | 0.0061 | 38.4 | 1 | 38.4 | 1 | 0.040140658 | 1.541401274 | 1.541401274 | 1.5 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.025644517 | 83.08823529 | 0.008308824 | 0.0083 | 34.8 | 1 | 34.8 | 1 | 0.040140658 | 1.396894904 | 1.396894904 | 1.4 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | 0.025644517 | | | | | | | 1 | 0.040140658 | | | |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.025644517 | 31.02986565 | 0.003102987 | 0.0031 | 15.2 | 1 | 15.2 | 1 | 0.040140658 | 0.610138004 | 0.610138004 | 0.61 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.025644517 | 54.62282135 | 0.005462282 | 0.0055 | 556 | 1 | 556 | 1 | 0.040140658 | 22.31820594 | 22.31820594 | 22 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.025644517 | 41.80056282 | 0.004180056 | 0.0042 | 28.7 | 1 | 28.7 | 1 | 0.040140658 | 1.15203689 | 1.15203689 | 1.2 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.025644517 | 25.05469317 | 0.002505469 | 0.0025 | 12.6 | 1 | 12.6 | 1 | 0.040140658 | 0.505772293 | 0.505772293 | 0.51 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.025644517 | 23.69553377 | 0.002369553 | 0.0024 | 10.5 | 1 | 10.5 | 1 | 0.040140658 | 0.421476911 | 0.421476911 | 0.42 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.025644517 | 23.05442084 | 0.002305442 | 0.0023 | 6.5 | 1 | 6.5 | 1 | 0.040140658 | 0.260914278 | 0.260914278 | 0.26 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.025644517 | 107.7069717 | 0.010770697 | 0.011 | 65.7 | 1 | 65.7 | 1 | 0.040140658 | 2.637241242 | 2.637241242 | 2.6 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.025644517 | 15.13026507 | 0.001513027 | 0.0015 | 5.3 | 1 | 5.3 | 1 | 0.040140658 | 0.212745488 | 0.212745488 | 0.21 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.025644517 | 27.69607843 | 0.002769608 | 0.0028 | 7.5 | 1 | 7.5 | 1 | 0.040140658 | 0.301054936 | 0.301054936 | 0.3 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.025644517 | 33.85076253 | 0.003385076 | 0.0034 | 11.8 | 1 | 11.8 | 1 | 0.040140658 | 0.473659766 | 0.473659766 | 0.47 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.025644517 | 9.052514524 | 0.000905251 | 0.00091 | 30.9 | 1 | 30.9 | 1 | 0.040140658 | 1.240346338 | 1.240346338 | 1.2 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.025644517 | 255.41939 | 0.025541939 | 0.026 | 12.2 | 1 | 12.2 | 1 | 0.040140658 | 0.48971603 | 0.48971603 | 0.49 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.025644517 | 38.21033043 | 0.003821033 | 0.0038 | 17.7 | 1 | 17.7 | 1 | 0.040140658 | 0.71048965 | 0.71048965 | 0.71 |
| | | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.087377433 | 262.1322987 | 0.02621323 | 0.026 | 38.6 | 1 | 38.6 | 1 | 0.08111926 | 3.131203424 | 3.131203424 | 3.1 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.087377433 | 261.2585244 | 0.026125852 | 0.026 | 11.8 | 1 | 11.8 | 1 | 0.08111926 | 0.957207264 | 0.957207264 | 0.96 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.087377433 | 276.112688 | 0.027611269 | 0.028 | 81 | 1 | 81 | 1 | 0.08111926 | 6.570660035 | 6.570660035 | 6.6 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.087377433 | 152.9105076 | 0.015291051 | 0.015 | 23.1 | 1 | 23.1 | 1 | 0.08111926 | 1.873854899 | 1.873854899 | 1.9 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.087377433 | 190.4828037 | 0.01904828 | 0.019 | 13.7 | 1 | 13.7 | 1 | 0.08111926 | 1.111333858 | 1.111333858 | 1.1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.087377433 | 268.248719 | 0.026824872 | 0.027 | 14.1 | 1 | 14.1 | 1 | 0.08111926 | 1.143781562 | 1.143781562 | 1.1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.087377433 | 197.4729983 | 0.0197473 | 0.02 | 10.8 | 1 | 10.8 | 1 | 0.08111926 | 0.876088005 | 0.876088005 | 0.88 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.087377433 | 116.2119858 | 0.011621199 | 0.012 | 1.71 | 1 | 1.71 | 1 | 0.08111926 | 0.138713934 | 0.138713934 | 0.14 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.087377433 | 598.5354153 | 0.059853542 | 0.06 | 30 | 1 | 30 | 1 | 0.08111926 | 2.433577791 | 2.433577791 | 2.4 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.087377433 | 513.7793054 | 0.051377931 | 0.051 | 22.9 | 1 | 22.9 | 1 | 0.08111926 | 1.857631047 | 1.857631047 | 1.9 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.087377433 | 183.4926091 | 0.018349261 | 0.018 | 17.7 | 1 | 17.7 | 1 | 0.08111926 | 1.435810897 | 1.435810897 | 1.4 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.087377433 | 705.1358835 | 0.070513588 | 0.071 | 23.3 | 1 | 23.3 | 1 | 0.08111926 | 1.890078751 | 1.890078751 | 1.9 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.087377433 | 537.3712123 | 0.053737121 | 0.054 | 23.4 | 1 | 23.4 | 1 | 0.08111926 | 1.898190677 | 1.898190677 | 1.9 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.087377433 | 497.1775932 | 0.049717759 | 0.05 | 23 | 1 | 23 | 1 | 0.08111926 | 1.865742973 | 1.865742973 | 1.9 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.087377433 | | | | | | | 1 | 0.08111926 | | | |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.087377433 | 169.5122198 | 0.016951222 | 0.017 | 15.2 | 1 | 15.2 | 1 | 0.08111926 | 1.233012747 | 1.233012747 | 1.2 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.087377433 | 350.3835059 | 0.035038351 | 0.035 | 7.65 | 0 | 0 | 1 | 0.08111926 | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.087377433 | 436.8871645 | 0.043688716 | 0.044 | 4.17 | 1 | 4.17 | 1 | 0.08111926 | 0.338267313 | 0.338267313 | 0.34 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.087377433 | 320.6751787 | 0.032067518 | 0.032 | 3.83 | 1 | 3.83 | 1 | 0.08111926 | 0.310686765 | 0.310686765 | 0.31 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.087377433 | 282.2291083 | 0.028222911 | 0.028 | 22.6 | 1 | 22.6 | 1 | 0.08111926 | 1.833295269 | 1.833295269 | 1.8 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.087377433 | 451.7413281 | 0.045174133 | 0.045 | 21 | 1 | 21 | 1 | 0.08111926 | 1.703504454 | 1.703504454 | 1.7 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.087377433 | 138.9301183 | 0.013893012 | 0.014 | 5.37 | 1 | 5.37 | 1 | 0.08111926 | 0.435610425 | 0.435610425 | 0.44 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.087377433 | 255.1421041 | 0.02551421 | 0.026 | 11.5 | 1 | 11.5 | 1 | 0.08111926 | 0.932871486 | 0.932871486 | 0.93 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.087377433 | 183.4926091 | 0.018349261 | 0.018 | 36.3 | 1 | 36.3 | 1 | 0.08111926 | 2.944629127 | 2.944629127 | 2.9 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.087377433 | 76.36787635 | 0.007636788 | 0.0076 | 20.9 | 1 | 20.9 | 1 | 0.08111926 | 1.695392528 | 1.695392528 | 1.7 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.087377433 | 139.8038926 | 0.013980389 | 0.014 | 56.8 | 0 | 0 | 1 | 0.08111926 | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0.087377433 | 146.7940873 | 0.014679409 | 0.015 | 33.7 | 1 | 33.7 | 1 | 0.08111926 | 2.733719052 | 2.733719052 | 2.7 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.087377433 | 147.6678616 | 0.014766786 | 0.015 | 61 | 1 | 61 | 1 | 0.08111926 | 4.948274841 | 4.948274841 | 4.9 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.087377433 | 167.7646712 | 0.016776467 | 0.017 | 36.6 | 0 | 0 | 1 | 0.08111926 | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.087377433 | 160.7744765 | 0.016077448 | 0.016 | 8.14 | 1 | 8.14 | 1 | 0.08111926 | 0.660310774 | 0.660310774 | 0.66 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.087377433 | 104.8529195 | 0.010485292 | 0.01 | 12.6 | 1 | 12.6 | 1 | 0.08111926 | 1.022102672 | 1.022102672 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.087377433 | 115.3382114 | 0.011533821 | 0.012 | 12.6 | 1 | 12.6 | 1 | 0.08111926 | 1.022102672 | 1.022102672 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.087377433 | 569.7008625 | 0.056970086 | 0.057 | 17.4 | 1 | 17.4 | 1 | 0.08111926 | 1.411475119 | 1.411475119 | 1.4 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.087377433 | 110.0955655 | 0.011009557 | 0.011 | 14 | 1 | 14 | 1 | 0.08111926 | 1.135669636 | 1.135669636 | 1.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.087377433 | 227.1813255 | 0.022718133 | 0.023 | 12.1 | 1 | 12.1 | 1 | 0.08111926 | 0.981543042 | 0.981543042 | 0.98 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.087377433 | 208.8320646 | 0.020883206 | 0.021 | 19.1 | 1 | 19.1 | 1 | 0.08111926 | 1.54937786 | 1.54937786 | 1.5 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.087377433 | 178.2499631 | 0.017824996 | 0.018 | 27.5 | 1 | 27.5 | 1 | 0.08111926 | 2.230779642 | 2.230779642 | 2.2 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0.087377433 | | | | | | | 1 | 0.08111926 | | | |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.087377433 | 195.7254497 | 0.019572545 | 0.02 | 17.7 | 1 | 17.7 | 1 | 0.08111926 | 1.435810897 | 1.435810897 | 1.4 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.087377433 | 164.2695738 | 0.016426957 | 0.016 | 13.1 | 1 | 13.1 | 1 | 0.08111926 | 1.062662302 | 1.062662302 | 1.1 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 0.087377433 | 210.5796133 | 0.021057961 | 0.021 | 22.1 | 1 | 22.1 | 1 | 0.08111926 | 1.792735639 | 1.792735639 | 1.8 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.087377433 | 152.9105076 | 0.015291051 | 0.015 | 68.5 | 1 | 68.5 | 1 | 0.08111926 | 5.556669289 | 5.556669289 | 5.6 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.087377433 | 275.2389136 | 0.027523891 | 0.028 | 38.4 | 1 | 38.4 | 1 | 0.08111926 | 3.114979572 | 3.114979572 | 3.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.087377433 | 170.3859941 | 0.017038599 | 0.017 | 79.9 | 1 | 79.9 | 1 | 0.08111926 | 6.481428849 | 6.481428849 | 6.5 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.087377433 | 247.2781351 | 0.024727814 | 0.025 | 88.9 | 1 | 88.9 | 1 | 0.08111926 | 7.211502187 | 7.211502187 | 7.2 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.087377433 | 370.4803155 | 0.037048032 | 0.037 | 140 | 1 | 140 | 1 | 0.08111926 | 11.35669636 | 11.35669636 | 11 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.087377433 | 129.3186007 | 0.01293186 | 0.013 | 70.6 | 1 | 70.6 | 1 | 0.08111926 | 5.727019734 | 5.727019734 | 5.7 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.087377433 | 76.19312149 | 0.007619312 | 0.0076 | 63.9 | 1 | 63.9 | 1 | 0.08111926 | 5.183520694 | 5.183520694 | 5.2 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.087377433 | 256.8896527 | 0.025688965 | 0.026 | 69 | 1 | 69 | 1 | 0.08111926 | 5.597228919 | 5.597228919 | 5.6 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.087377433 | 221.9386796 | 0.022193868 | 0.022 | 32.5 | 1 | 32.5 | 1 | 0.08111926 | 2.63637594 | 2.63637594 | 2.6 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.087377433 | 190.4828037 | 0.01904828 | 0.019 | 97.7 | 1 | 97.7 | 1 | 0.08111926 | 7.925351672 | 7.925351672 | 7.9 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.087377433 | 246.4043608 | 0.024640436 | 0.025 | 28.9 | 1 | 28.9 | 1 | 0.08111926 | 2.344346605 | 2.344346605 | 2.3 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.087377433 | 127.571052 | 0.012757105 | 0.013 | 26.3 | 1 | 26.3 | 1 | 0.08111926 | 2.13343653 | 2.13343653 | 2.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.087377433 | 38.53344791 | 0.003853345 | 0.0039 | 117 | 1 | 117 | 1 | 0.08111926 | 9.490953384 | 9.490953384 | 9.5 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.087377433 | | | | | | | 1 | 0.08111926 | | | |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.087377433 | 194.8516754 | 0.019485168 | 0.019 | 94.9 | 1 | 94.9 | 1 | 0.08111926 | 7.698217745 | 7.698217745 | 7.7 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.087377433 | 323.2965017 | 0.03232965 | 0.032 | 304 | 0 | 0 | 1 | 0.08111926 | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.087377433 | 151.1629589 | 0.015116296 | 0.015 | 122 | 1 | 122 | 1 | 0.08111926 | 9.896549682 | 9.896549682 | 9.9 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.087377433 | 183.4926091 | 0.018349261 | 0.018 | 76.4 | 1 | 76.4 | 1 | 0.08111926 | 6.19751144 | 6.19751144 | 6.2 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.087377433 | 228.0550999 | 0.02280551 | 0.023 | 35.6 | 1 | 35.6 | 1 | 0.08111926 | 2.887845645 | 2.887845645 | 2.9 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.087377433 | 387.9558021 | 0.03879558 | 0.039 | 29.1 | 1 | 29.1 | 1 | 0.08111926 | 2.360570457 | 2.360570457 | 2.4 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.087377433 | 152.9105076 | 0.015291051 | 0.015 | 30.5 | 1 | 30.5 | 1 | 0.08111926 | 2.474137421 | 2.474137421 | 2.5 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.087377433 | 250.7732324 | 0.025077323 | 0.025 | 279 | 1 | 279 | 1 | 0.08111926 | 22.63227345 | 22.63227345 | 23 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.087377433 | 128.4448264 | 0.012844483 | 0.013 | 437 | 1 | 437 | 1 | 0.08111926 | 35.44911649 | 35.44911649 | 35 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.087377433 | 175.6286401 | 0.017562864 | 0.018 | 26.8 | 1 | 26.8 | 1 | 0.08111926 | 2.17399616 | 2.17399616 | 2.2 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.087377433 | 438.6347131 | 0.043863471 | 0.044 | 602 | 0 | 0 | 1 | 0.08111926 | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.087377433 | 50.85366595 | 0.005085367 | 0.0051 | 108 | 1 | 108 | 1 | 0.08111926 | 8.760880047 | 8.760880047 | 8.8 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.087377433 | 100.4840478 | 0.010048405 | 0.01 | 16.6 | 1 | 16.6 | 1 | 0.08111926 | 1.346579711 | 1.346579711 | 1.3 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.087377433 | 175.6286401 | 0.017562864 | 0.018 | 47.6 | 1 | 47.6 | 1 | 0.08111926 | 3.861276761 | 3.861276761 | 3.9 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.087377433 | 153.7842819 | 0.015378428 | 0.015 | 6.81 | 1 | 6.81 | 1 | 0.08111926 | 0.552422158 | 0.552422158 | 0.55 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.087377433 | 182.6188348 | 0.018261883 | 0.018 | 1.24 | 1 | 1.24 | 1 | 0.08111926 | 0.100587882 | 0.100587882 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.087377433 | 186.1139321 | 0.018611393 | 0.019 | 4.18 | 1 | 4.18 | 1 | 0.08111926 | 0.339078506 | 0.339078506 | 0.34 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.087377433 | 112.7168884 | 0.011271689 | 0.011 | 0.58 | 0 | 0 | 1 | 0.08111926 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.087377433 | 238.5403918 | 0.023854039 | 0.024 | 10.2 | 1 | 10.2 | 1 | 0.08111926 | 0.827416449 | 0.827416449 | 0.83 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.087377433 | 206.2107416 | 0.020621074 | 0.021 | 4.32 | 0 | 0 | 1 | 0.08111926 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.087377433 | 170.3859941 | 0.017038599 | 0.017 | 20.8 | 1 | 20.8 | 1 | 0.08111926 | 1.687280602 | 1.687280602 | 1.7 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.087377433 | 301.4521435 | 0.030145214 | 0.03 | 24.1 | 1 | 24.1 | 1 | 0.08111926 | 1.954974159 | 1.954974159 | 2 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.087377433 | 236.355956 | 0.023635596 | 0.024 | 4.7 | 1 | 4.7 | 1 | 0.08111926 | 0.381260521 | 0.381260521 | 0.38 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | 0.087377433 | | | | | | | 1 | 0.08111926 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.087377433 | 165.1433482 | 0.016514335 | 0.017 | 22.7 | 1 | 22.7 | 1 | 0.08111926 | 1.841407195 | 1.841407195 | 1.8 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.087377433 | 88.25120723 | 0.008825121 | 0.0088 | 8.27 | 1 | 8.27 | 1 | 0.08111926 | 0.670856278 | 0.670856278 | 0.67 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.087377433 | 189.6090294 | 0.018960903 | 0.019 | 3.8 | 1 | 3.8 | 1 | 0.08111926 | 0.308253187 | 0.308253187 | 0.31 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.087377433 | 260.38475 | 0.026038475 | 0.026 | 683 | 1 | 683 | 1 | 0.08111926 | 55.40445437 | 55.40445437 | 55 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.087377433 | 281.3553339 | 0.028135533 | 0.028 | 1.28 | 1 | 1.28 | 1 | 0.08111926 | 0.103832652 | 0.103832652 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.087377433 | 145.0465386 | 0.014504654 | 0.015 | 2.1 | 1 | 2.1 | 1 | 0.08111926 | 0.170350445 | 0.170350445 | 0.17 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.087377433 | 186.1139321 | 0.018611393 | 0.019 | 3 | 1 | 3 | 1 | 0.08111926 | 0.243357779 | 0.243357779 | 0.24 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.087377433 | 236.7928432 | 0.023679284 | 0.024 | 2.1 | 1 | 2.1 | 1 | 0.08111926 | 0.170350445 | 0.170350445 | 0.17 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.087377433 | 226.7444384 | 0.022674444 | 0.023 | 422.6 | 1 | 422.6 | 1 | 0.08111926 | 34.28099915 | 34.28099915 | 34 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicat | 6/26/2007 | SO | 89 | 0.087377433 | | | | | | | 1 | 0.08111926 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.087377433 | 152.9105076 | 0.015291051 | 0.015 | 182 | 1 | 182 | 1 | 0.08111926 | 14.76370526 | 14.76370526 | 15 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.087377433 | 207.9582903 | 0.020795829 | 0.021 | 38.4 | 1 | 38.4 | 1 | 0.08111926 | 3.114979572 | 3.114979572 | 3.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.087377433 | 283.1028826 | 0.028310288 | 0.028 | 34.8 | 1 | 34.8 | 1 | 0.08111926 | 2.822950237 | 2.822950237 | 2.8 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicat | 6/29/2007 | SO | 93 | 0.087377433 | | | | | | | 1 | 0.08111926 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.087377433 | 105.7266938 | 0.010572669 | 0.011 | 15.2 | 1 | 15.2 | 1 | 0.08111926 | 1.233012747 | 1.233012747 | 1.2 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.087377433 | 186.1139321 | 0.018611393 | 0.019 | 556 | 1 | 556 | 1 | 0.08111926 | 45.10230839 | 45.10230839 | 45 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.087377433 | 142.4252156 | 0.014242522 | 0.014 | 28.7 | 1 | 28.7 | 1 | 0.08111926 | 2.328122753 | 2.328122753 | 2.3 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.087377433 | 85.36775194 | 0.008536775 | 0.0085 | 12.6 | 1 | 12.6 | 1 | 0.08111926 | 1.022102672 | 1.022102672 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.087377433 | 80.736748 | 0.008073675 | 0.0081 | 10.5 | 1 | 10.5 | 1 | 0.08111926 | 0.851752227 | 0.851752227 | 0.85 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.087377433 | 78.55231217 | 0.007855231 | 0.0079 | 6.5 | 1 | 6.5 | 1 | 0.08111926 | 0.527275188 | 0.527275188 | 0.53 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.087377433 | 366.9852182 | 0.036698522 | 0.037 | 65.7 | 1 | 65.7 | 1 | 0.08111926 | 5.329535362 | 5.329535362 | 5.3 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.087377433 | 51.55268541 | 0.005155269 | 0.0052 | 5.3 | 1 | 5.3 | 1 | 0.08111926 | 0.429932076 | 0.429932076 | 0.43 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.087377433 | 94.36762753 | 0.009436763 | 0.0094 | 7.5 | 1 | 7.5 | 1 | 0.08111926 | 0.608394448 | 0.608394448 | 0.61 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.087377433 | 115.3382114 | 0.011533821 | 0.012 | 11.8 | 1 | 11.8 | 1 | 0.08111926 | 0.957207264 | 0.957207264 | 0.96 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.087377433 | 30.84423381 | 0.003084423 | 0.0031 | 30.9 | 1 | 30.9 | 1 | 0.08111926 | 2.506585124 | 2.506585124 | 2.5 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.087377433 | 870.2792317 | 0.087027923 | 0.087 | 12.2 | 1 | 12.2 | 1 | 0.08111926 | 0.989654968 | 0.989654968 | 0.99 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.087377433 | 130.192375 | 0.013019238 | 0.013 | 17.7 | 1 | 17.7 | 1 | 0.08111926 | 1.435810897 | 1.435810897 | 1.4 |
| | | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.025524812 | 76.57443609 | 0.007657444 | 0.0077 | 38.6 | 1 | 38.6 | 1 | 0.104070677 | 4.01712812 | 4.01712812 | 4 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.025524812 | 76.31918797 | 0.007631919 | 0.0076 | 11.8 | 1 | 11.8 | 1 | 0.104070677 | 1.228033985 | 1.228033985 | 1.2 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.025524812 | 80.65840602 | 0.008065841 | 0.0081 | 81 | 1 | 81 | 1 | 0.104070677 | 8.429724812 | 8.429724812 | 8.4 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.025524812 | 44.66842105 | 0.004466842 | 0.0045 | 23.1 | 1 | 23.1 | 1 | 0.104070677 | 2.404032632 | 2.404032632 | 2.4 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.025524812 | 55.64409023 | 0.005564409 | 0.0056 | 13.7 | 1 | 13.7 | 1 | 0.104070677 | 1.425768271 | 1.425768271 | 1.4 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.025524812 | 78.36117293 | 0.007836117 | 0.0078 | 14.1 | 1 | 14.1 | 1 | 0.104070677 | 1.467396541 | 1.467396541 | 1.5 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.025524812 | 57.68607519 | 0.005768608 | 0.0058 | 10.8 | 1 | 10.8 | 1 | 0.104070677 | 1.123963308 | 1.123963308 | 1.1 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.025524812 | 33.948 | 0.0033948 | 0.0034 | 1.71 | 1 | 1.71 | 1 | 0.104070677 | 0.177960857 | 0.177960857 | 0.18 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.025524812 | 174.8449624 | 0.017484496 | 0.017 | 30 | 1 | 30 | 1 | 0.104070677 | 3.122120301 | 3.122120301 | 3.1 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.025524812 | 150.0858947 | 0.015008589 | 0.015 | 22.9 | 1 | 22.9 | 1 | 0.104070677 | 2.383218496 | 2.383218496 | 2.4 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.025524812 | 53.60210526 | 0.005360211 | 0.0054 | 17.7 | 1 | 17.7 | 1 | 0.104070677 | 1.842050977 | 1.842050977 | 1.8 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.025524812 | 205.9852331 | 0.020598523 | 0.021 | 23.3 | 1 | 23.3 | 1 | 0.104070677 | 2.424846767 | 2.424846767 | 2.4 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.025524812 | 156.977594 | 0.015697759 | 0.016 | 23.4 | 1 | 23.4 | 1 | 0.104070677 | 2.435253835 | 2.435253835 | 2.4 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.025524812 | 145.2361805 | 0.014523618 | 0.015 | 23 | 1 | 23 | 1 | 0.104070677 | 2.393625564 | 2.393625564 | 2.4 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.025524812 | | | | | | | 1 | 0.104070677 | | | |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.025524812 | 49.51813534 | 0.004951814 | 0.005 | 15.2 | 1 | 15.2 | 1 | 0.104070677 | 1.581874286 | 1.581874286 | 1.6 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.025524812 | 102.3544962 | 0.01023545 | 0.01 | 7.65 | 0 | 0 | 1 | 0.104070677 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.025524812 | 127.6240602 | 0.012762406 | 0.013 | 4.17 | 1 | 4.17 | 1 | 0.104070677 | 0.433974722 | 0.433974722 | 0.43 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.025524812 | 93.67606015 | 0.009367606 | 0.0094 | 3.83 | 1 | 3.83 | 1 | 0.104070677 | 0.398590692 | 0.398590692 | 0.4 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.025524812 | 82.44514286 | 0.008244514 | 0.0082 | 22.6 | 1 | 22.6 | 1 | 0.104070677 | 2.351997293 | 2.351997293 | 2.4 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.025524812 | 131.9632782 | 0.013196328 | 0.013 | 21 | 1 | 21 | 1 | 0.104070677 | 2.185484211 | 2.185484211 | 2.2 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.025524812 | 40.58445113 | 0.004058445 | 0.0041 | 5.37 | 1 | 5.37 | 1 | 0.104070677 | 0.558859534 | 0.558859534 | 0.56 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.025524812 | 74.53245113 | 0.007453245 | 0.0075 | 11.5 | 1 | 11.5 | 1 | 0.104070677 | 1.196812782 | 1.196812782 | 1.2 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.025524812 | 53.60210526 | 0.005360211 | 0.0054 | 36.3 | 1 | 36.3 | 1 | 0.104070677 | 3.777765564 | 3.777765564 | 3.8 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.025524812 | 22.30868571 | 0.002230869 | 0.0022 | 20.9 | 1 | 20.9 | 1 | 0.104070677 | 2.175077143 | 2.175077143 | 2.2 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.025524812 | 40.83969925 | 0.00408397 | 0.0041 | 56.8 | 0 | 0 | 1 | 0.104070677 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0.025524812 | 42.88168421 | 0.004288168 | 0.0043 | 33.7 | 1 | 33.7 | 1 | 0.104070677 | 3.507181805 | 3.507181805 | 3.5 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.025524812 | 43.13693233 | 0.004313693 | 0.0043 | 61 | 1 | 61 | 1 | 0.104070677 | 6.348311278 | 6.348311278 | 6.3 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.025524812 | 49.0076391 | 0.004900764 | 0.0049 | 36.6 | 0 | 0 | 1 | 0.104070677 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.025524812 | 46.96565414 | 0.004696565 | 0.0047 | 8.14 | 1 | 8.14 | 1 | 0.104070677 | 0.847135308 | 0.847135308 | 0.85 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.025524812 | 30.62977444 | 0.003062977 | 0.0031 | 12.6 | 1 | 12.6 | 1 | 0.104070677 | 1.311290526 | 1.311290526 | 1.3 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.025524812 | 33.69275188 | 0.003369275 | 0.0034 | 12.6 | 1 | 12.6 | 1 | 0.104070677 | 1.311290526 | 1.311290526 | 1.3 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.025524812 | 166.4217744 | 0.016642177 | 0.017 | 17.4 | 1 | 17.4 | 1 | 0.104070677 | 1.810829774 | 1.810829774 | 1.8 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.025524812 | 32.16126316 | 0.003216126 | 0.0032 | 14 | 1 | 14 | 1 | 0.104070677 | 1.456989474 | 1.456989474 | 1.5 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.025524812 | 66.36451128 | 0.006636451 | 0.0066 | 12.1 | 1 | 12.1 | 1 | 0.104070677 | 1.259255188 | 1.259255188 | 1.3 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.025524812 | 61.00430075 | 0.00610043 | 0.0061 | 19.1 | 1 | 19.1 | 1 | 0.104070677 | 1.987749925 | 1.987749925 | 2 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.025524812 | 52.07061654 | 0.005207062 | 0.0052 | 27.5 | 1 | 27.5 | 1 | 0.104070677 | 2.861943609 | 2.861943609 | 2.9 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0.025524812 | | | | | | | 1 | 0.104070677 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.025524812 | 57.17557895 | 0.005717558 | 0.0057 | 17.7 | 1 | 17.7 | 1 | 0.104070677 | 1.842050977 | 1.842050977 | 1.8 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.025524812 | 47.98664662 | 0.004798665 | 0.0048 | 13.1 | 1 | 13.1 | 1 | 0.104070677 | 1.363325865 | 1.363325865 | 1.4 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 0.025524812 | 61.51479699 | 0.00615148 | 0.0062 | 22.1 | 1 | 22.1 | 1 | 0.104070677 | 2.299961955 | 2.299961955 | 2.3 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.025524812 | 44.66842105 | 0.004466842 | 0.0045 | 68.5 | 1 | 68.5 | 1 | 0.104070677 | 7.128841353 | 7.128841353 | 7.1 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.025524812 | 80.40315789 | 0.008040316 | 0.008 | 38.4 | 1 | 38.4 | 1 | 0.104070677 | 3.996313985 | 3.996313985 | 4 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.025524812 | 49.77338346 | 0.004977338 | 0.005 | 79.9 | 1 | 79.9 | 1 | 0.104070677 | 8.315247068 | 8.315247068 | 8.3 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.025524812 | 72.23521805 | 0.007223522 | 0.0072 | 88.9 | 1 | 88.9 | 1 | 0.104070677 | 9.251883158 | 9.251883158 | 9.3 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.025524812 | 108.225203 | 0.01082252 | 0.011 | 140 | 1 | 140 | 1 | 0.104070677 | 14.56989474 | 14.56989474 | 15 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.025524812 | 37.7767218 | 0.003777672 | 0.0038 | 70.6 | 1 | 70.6 | 1 | 0.104070677 | 7.347389774 | 7.347389774 | 7.3 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.025524812 | 22.25763609 | 0.002225764 | 0.0022 | 63.9 | 1 | 63.9 | 1 | 0.104070677 | 6.650116241 | 6.650116241 | 6.7 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.025524812 | 75.04294737 | 0.007504295 | 0.0075 | 69 | 1 | 69 | 1 | 0.104070677 | 7.180876692 | 7.180876692 | 7.2 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.025524812 | 64.83302256 | 0.006483302 | 0.0065 | 32.5 | 1 | 32.5 | 1 | 0.104070677 | 3.382296992 | 3.382296992 | 3.4 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.025524812 | 55.64409023 | 0.005564409 | 0.0056 | 97.7 | 1 | 97.7 | 1 | 0.104070677 | 10.16770511 | 10.16770511 | 10 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.025524812 | 71.97996992 | 0.007197997 | 0.0072 | 28.9 | 1 | 28.9 | 1 | 0.104070677 | 3.007642556 | 3.007642556 | 3 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.025524812 | 37.26622556 | 0.003726623 | 0.0037 | 26.3 | 1 | 26.3 | 1 | 0.104070677 | 2.737058797 | 2.737058797 | 2.7 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.025524812 | 11.25644211 | 0.001125644 | 0.0011 | 117 | 1 | 117 | 1 | 0.104070677 | 12.17626917 | 12.17626917 | 12 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.025524812 | | | | | | | 1 | 0.104070677 | | | |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.025524812 | 56.92033083 | 0.005692033 | 0.0057 | 94.9 | 1 | 94.9 | 1 | 0.104070677 | 9.876307218 | 9.876307218 | 9.9 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.025524812 | 94.44180451 | 0.00944418 | 0.0094 | 304 | 0 | 0 | 1 | 0.104070677 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.025524812 | 44.15792481 | 0.004415792 | 0.0044 | 122 | 1 | 122 | 1 | 0.104070677 | 12.69662256 | 12.69662256 | 13 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.025524812 | 53.60210526 | 0.005360211 | 0.0054 | 76.4 | 1 | 76.4 | 1 | 0.104070677 | 7.950999699 | 7.950999699 | 8 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.025524812 | 66.6197594 | 0.006661976 | 0.0067 | 35.6 | 1 | 35.6 | 1 | 0.104070677 | 3.70491609 | 3.70491609 | 3.7 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.025524812 | 113.3301654 | 0.011333017 | 0.011 | 29.1 | 1 | 29.1 | 1 | 0.104070677 | 3.028456692 | 3.028456692 | 3 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.025524812 | 44.66842105 | 0.004466842 | 0.0045 | 30.5 | 1 | 30.5 | 1 | 0.104070677 | 3.174155639 | 3.174155639 | 3.2 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.025524812 | 73.25621053 | 0.007325621 | 0.0073 | 279 | 1 | 279 | 1 | 0.104070677 | 29.0357188 | 29.0357188 | 29 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.025524812 | 37.52147368 | 0.003752147 | 0.0038 | 437 | 1 | 437 | 1 | 0.104070677 | 45.47888571 | 45.47888571 | 45 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.025524812 | 51.30487218 | 0.005130487 | 0.0051 | 26.8 | 1 | 26.8 | 1 | 0.104070677 | 2.789094135 | 2.789094135 | 2.8 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.025524812 | 128.1345564 | 0.012813456 | 0.013 | 602 | 0 | 0 | 1 | 0.104070677 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.025524812 | 14.8554406 | 0.001485544 | 0.0015 | 108 | 1 | 108 | 1 | 0.104070677 | 11.23963308 | 11.23963308 | 11 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.025524812 | 29.35353383 | 0.002935353 | 0.0029 | 16.6 | 1 | 16.6 | 1 | 0.104070677 | 1.727573233 | 1.727573233 | 1.7 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.025524812 | 51.30487218 | 0.005130487 | 0.0051 | 47.6 | 1 | 47.6 | 1 | 0.104070677 | 4.953764211 | 4.953764211 | 5 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.025524812 | 44.92366917 | 0.004492367 | 0.0045 | 6.81 | 1 | 6.81 | 1 | 0.104070677 | 0.708721308 | 0.708721308 | 0.71 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.025524812 | 53.34685714 | 0.005334686 | 0.0053 | 1.24 | 1 | 1.24 | 1 | 0.104070677 | 0.129047639 | 0.129047639 | 0.13 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.025524812 | 54.36784962 | 0.005436785 | 0.0054 | 4.18 | 1 | 4.18 | 1 | 0.104070677 | 0.435015429 | 0.435015429 | 0.44 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.025524812 | 32.92700752 | 0.003292701 | 0.0033 | 0.58 | 0 | 0 | 1 | 0.104070677 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.025524812 | 69.68273684 | 0.006968274 | 0.007 | 10.2 | 1 | 10.2 | 1 | 0.104070677 | 1.061520902 | 1.061520902 | 1.1 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.025524812 | 60.23855639 | 0.006023856 | 0.006 | 4.32 | 0 | 0 | 1 | 0.104070677 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.025524812 | 49.77338346 | 0.004977338 | 0.005 | 20.8 | 1 | 20.8 | 1 | 0.104070677 | 2.164670075 | 2.164670075 | 2.2 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.025524812 | 88.0606015 | 0.00880606 | 0.0088 | 24.1 | 1 | 24.1 | 1 | 0.104070677 | 2.508103308 | 2.508103308 | 2.5 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.025524812 | 69.04461654 | 0.006904462 | 0.0069 | 4.7 | 1 | 4.7 | 1 | 0.104070677 | 0.48913218 | 0.48913218 | 0.49 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | 0.025524812 | | | | | | | 1 | 0.104070677 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.025524812 | 48.24189474 | 0.004824189 | 0.0048 | 22.7 | 1 | 22.7 | 1 | 0.104070677 | 2.362404361 | 2.362404361 | 2.4 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.025524812 | 25.78006015 | 0.002578006 | 0.0026 | 8.27 | 1 | 8.27 | 1 | 0.104070677 | 0.860664496 | 0.860664496 | 0.86 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.025524812 | 55.38884211 | 0.005538884 | 0.0055 | 3.8 | 1 | 3.8 | 1 | 0.104070677 | 0.395468571 | 0.395468571 | 0.4 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.025524812 | 76.06393985 | 0.007606394 | 0.0076 | 683 | 1 | 683 | 1 | 0.104070677 | 71.08027218 | 71.08027218 | 71 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.025524812 | 82.18989474 | 0.008218989 | 0.0082 | 1.28 | 1 | 1.28 | 1 | 0.104070677 | 0.133210466 | 0.133210466 | 0.13 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.025524812 | 42.37118797 | 0.004237119 | 0.0042 | 2.1 | 1 | 2.1 | 1 | 0.104070677 | 0.218548421 | 0.218548421 | 0.22 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.025524812 | 54.36784962 | 0.005436785 | 0.0054 | 3 | 1 | 3 | 1 | 0.104070677 | 0.31221203 | 0.31221203 | 0.31 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.025524812 | 69.1722406 | 0.006917224 | 0.0069 | 2.1 | 1 | 2.1 | 1 | 0.104070677 | 0.218548421 | 0.218548421 | 0.22 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.025524812 | 66.23688722 | 0.006623689 | 0.0066 | 422.6 | 1 | 422.6 | 1 | 0.104070677 | 43.98026797 | 43.98026797 | 44 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | 0.025524812 | | | | | | | 1 | 0.104070677 | | | |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.025524812 | 44.66842105 | 0.004466842 | 0.0045 | 182 | 1 | 182 | 1 | 0.104070677 | 18.94086316 | 18.94086316 | 19 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.025524812 | 60.74905263 | 0.006074905 | 0.0061 | 38.4 | 1 | 38.4 | 1 | 0.104070677 | 3.996313985 | 3.996313985 | 4 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.025524812 | 82.70039098 | 0.008270039 | 0.0083 | 34.8 | 1 | 34.8 | 1 | 0.104070677 | 3.621659549 | 3.621659549 | 3.6 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | 0.025524812 | | | | | | | 1 | 0.104070677 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.025524812 | 30.88502256 | 0.003088502 | 0.0031 | 15.2 | 1 | 15.2 | 1 | 0.104070677 | 1.581874286 | 1.581874286 | 1.6 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.025524812 | 54.36784962 | 0.005436785 | 0.0054 | 556 | 1 | 556 | 1 | 0.104070677 | 57.86329624 | 57.86329624 | 58 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.025524812 | 41.60544361 | 0.004160544 | 0.0042 | 28.7 | 1 | 28.7 | 1 | 0.104070677 | 2.986828421 | 2.986828421 | 3 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.025524812 | 24.93774135 | 0.002493774 | 0.0025 | 12.6 | 1 | 12.6 | 1 | 0.104070677 | 1.311290526 | 1.311290526 | 1.3 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.025524812 | 23.58492632 | 0.002358493 | 0.0024 | 10.5 | 1 | 10.5 | 1 | 0.104070677 | 1.092742105 | 1.092742105 | 1.1 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.025524812 | 22.94680602 | 0.002294681 | 0.0023 | 6.5 | 1 | 6.5 | 1 | 0.104070677 | 0.676459398 | 0.676459398 | 0.68 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.025524812 | 107.2042105 | 0.010720421 | 0.011 | 65.7 | 1 | 65.7 | 1 | 0.104070677 | 6.837443459 | 6.837443459 | 6.8 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.025524812 | 15.0596391 | 0.001505964 | 0.0015 | 5.3 | 1 | 5.3 | 1 | 0.104070677 | 0.551574586 | 0.551574586 | 0.55 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.025524812 | 27.56679699 | 0.00275668 | 0.0028 | 7.5 | 1 | 7.5 | 1 | 0.104070677 | 0.780530075 | 0.780530075 | 0.78 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.025524812 | 33.69275188 | 0.003369275 | 0.0034 | 11.8 | 1 | 11.8 | 1 | 0.104070677 | 1.228033985 | 1.228033985 | 1.2 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.025524812 | 9.010258647 | 0.000901026 | 0.0009 | 30.9 | 1 | 30.9 | 1 | 0.104070677 | 3.21578391 | 3.21578391 | 3.2 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.025524812 | 254.2271278 | 0.025422713 | 0.025 | 12.2 | 1 | 12.2 | 1 | 0.104070677 | 1.269662256 | 1.269662256 | 1.3 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.025524812 | 38.03196992 | 0.003803197 | 0.0038 | 17.7 | 1 | 17.7 | 1 | 0.104070677 | 1.842050977 | 1.842050977 | 1.8 |
| | | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.243414559 | 22.97833439 | 0.002297833 | 0.0023 | 0.15 | 0 | 0 | 1 | 1.563527814 | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.243414559 | 242.1974864 | 0.024219749 | 0.024 | 64.2 | 1 | 64.2 | 1 | 1.563527814 | 100.3784856 | 100.3784856 | 100 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.243414559 | 118.5428903 | 0.011854289 | 0.012 | 0.63 | 1 | 0.63 | 1 | 1.563527814 | 0.985022523 | 0.985022523 | 0.99 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.243414559 | 511.1705742 | 0.051117057 | 0.051 | 30.8 | 1 | 30.8 | 1 | 1.563527814 | 48.15665666 | 48.15665666 | 48 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.243414559 | 41.38047506 | 0.004138048 | 0.0041 | 5.92 | 1 | 5.92 | 1 | 1.563527814 | 9.256084656 | 9.256084656 | 9.3 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.243414559 | 11.02667953 | 0.001102668 | 0.0011 | 1.91 | 1 | 1.91 | 1 | 1.563527814 | 2.986338124 | 2.986338124 | 3 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.243414559 | 67.91266201 | 0.006791266 | 0.0068 | 9.18 | 1 | 9.18 | 1 | 1.563527814 | 14.35318533 | 14.35318533 | 14 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.243414559 | 494.1315551 | 0.049413156 | 0.049 | 33.3 | 1 | 33.3 | 1 | 1.563527814 | 52.06547619 | 52.06547619 | 52 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.243414559 | 90.30680145 | 0.00903068 | 0.009 | 12.6 | 1 | 12.6 | 1 | 1.563527814 | 19.70045045 | 19.70045045 | 20 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.243414559 | 74.72826966 | 0.007472827 | 0.0075 | 9.82 | 1 | 9.82 | 1 | 1.563527814 | 15.35384313 | 15.35384313 | 15 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0.243414559 | | | | | | | 1 | 1.563527814 | | | |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.243414559 | | | | | | | 1 | 1.563527814 | | | |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.243414559 | | | | | | | 1 | 1.563527814 | | | |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.243414559 | | | | | | | 1 | 1.563527814 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.365299926 | 34.48431306 | 0.003448431 | 0.0034 | 0.15 | 0 | 0 | 1 | 6.498702092 | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.365299926 | 363.4734268 | 0.036347343 | 0.036 | 64.2 | 1 | 64.2 | 1 | 6.498702092 | 417.2166743 | 417.2166743 | 420 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.365299926 | 177.9010642 | 0.017790106 | 0.018 | 0.63 | 1 | 0.63 | 1 | 6.498702092 | 4.094182318 | 4.094182318 | 4.1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.365299926 | 767.1298456 | 0.076712985 | 0.077 | 30.8 | 1 | 30.8 | 1 | 6.498702092 | 200.1600244 | 200.1600244 | 200 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.365299926 | 62.1009875 | 0.006210099 | 0.0062 | 5.92 | 1 | 5.92 | 1 | 6.498702092 | 38.47231638 | 38.47231638 | 38 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.365299926 | 16.54808667 | 0.001654809 | 0.0017 | 1.91 | 1 | 1.91 | 1 | 6.498702092 | 12.412521 | 12.412521 | 12 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.365299926 | 101.9186795 | 0.010191868 | 0.01 | 9.18 | 1 | 9.18 | 1 | 6.498702092 | 59.6580852 | 59.6580852 | 60 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.365299926 | 741.5588507 | 0.074155885 | 0.074 | 33.3 | 1 | 33.3 | 1 | 6.498702092 | 216.4067797 | 216.4067797 | 220 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.365299926 | 135.5262727 | 0.013552627 | 0.014 | 12.6 | 1 | 12.6 | 1 | 6.498702092 | 81.88364636 | 81.88364636 | 82 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.365299926 | 112.1470774 | 0.011214708 | 0.011 | 9.82 | 1 | 9.82 | 1 | 6.498702092 | 63.81725454 | 63.81725454 | 64 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0.365299926 | | | | | | | 1 | 6.498702092 | | | |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.365299926 | | | | | | | 1 | 6.498702092 | | | |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.365299926 | | | | | | | 1 | 6.498702092 | | | |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.365299926 | | | | | | | 1 | 6.498702092 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.062199168 | 5.871601461 | 0.00058716 | 0.00059 | 0.15 | 0 | 0 | 1 | 1.055917984 | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.062199168 | 61.88817218 | 0.006188817 | 0.0062 | 64.2 | 1 | 64.2 | 1 | 1.055917984 | 67.78993456 | 67.78993456 | 68 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.062199168 | 30.29099482 | 0.003029099 | 0.003 | 0.63 | 1 | 0.63 | 1 | 1.055917984 | 0.66522833 | 0.66522833 | 0.67 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.062199168 | 130.6182528 | 0.013061825 | 0.013 | 30.8 | 1 | 30.8 | 1 | 1.055917984 | 32.5222739 | 32.5222739 | 33 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.062199168 | 10.57385856 | 0.001057386 | 0.0011 | 5.92 | 1 | 5.92 | 1 | 1.055917984 | 6.251034464 | 6.251034464 | 6.3 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.062199168 | 2.817622311 | 0.000281762 | 0.00028 | 1.91 | 1 | 1.91 | 1 | 1.055917984 | 2.016803349 | 2.016803349 | 2 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.062199168 | 17.35356788 | 0.001735357 | 0.0017 | 9.18 | 1 | 9.18 | 1 | 1.055917984 | 9.693327091 | 9.693327091 | 9.7 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.062199168 | 126.2643111 | 0.012626431 | 0.013 | 33.3 | 1 | 33.3 | 1 | 1.055917984 | 35.16206886 | 35.16206886 | 35 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.062199168 | 23.07589133 | 0.002307589 | 0.0023 | 12.6 | 1 | 12.6 | 1 | 1.055917984 | 13.3045666 | 13.3045666 | 13 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.062199168 | 19.09514458 | 0.001909514 | 0.0019 | 9.82 | 1 | 9.82 | 1 | 1.055917984 | 10.3691146 | 10.3691146 | 10 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0.062199168 | | | | | | | 1 | 1.055917984 | | | |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.062199168 | | | | | | | 1 | 1.055917984 | | | |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.062199168 | | | | | | | 1 | 1.055917984 | | | |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.062199168 | | | | | | | 1 | 1.055917984 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1.864010117 | 175.962555 | 0.017596256 | 0.018 | 0.15 | 0 | 0 | 1 | 2.751320803 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 1.864010117 | 1854.690066 | 0.185469007 | 0.19 | 64.2 | 1 | 64.2 | 1 | 2.751320803 | 176.6347956 | 176.6347956 | 180 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 1.864010117 | 907.772927 | 0.090777293 | 0.091 | 0.63 | 1 | 0.63 | 1 | 2.751320803 | 1.733332106 | 1.733332106 | 1.7 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.864010117 | 3914.421246 | 0.391442125 | 0.39 | 30.8 | 1 | 30.8 | 1 | 2.751320803 | 84.74068075 | 84.74068075 | 85 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 1.864010117 | 316.8817199 | 0.031688172 | 0.032 | 5.92 | 1 | 5.92 | 1 | 2.751320803 | 16.28781916 | 16.28781916 | 16 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.864010117 | 84.4396583 | 0.008443966 | 0.0084 | 1.91 | 1 | 1.91 | 1 | 2.751320803 | 5.255022735 | 5.255022735 | 5.3 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.864010117 | 520.0588226 | 0.052005882 | 0.052 | 9.18 | 1 | 9.18 | 1 | 2.751320803 | 25.25712498 | 25.25712498 | 25 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.864010117 | 3783.940537 | 0.378394054 | 0.38 | 33.3 | 1 | 33.3 | 1 | 2.751320803 | 91.61898276 | 91.61898276 | 92 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 1.864010117 | 691.5477534 | 0.069154775 | 0.069 | 12.6 | 1 | 12.6 | 1 | 2.751320803 | 34.66664212 | 34.66664212 | 35 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.864010117 | 572.2511059 | 0.057225111 | 0.057 | 9.82 | 1 | 9.82 | 1 | 2.751320803 | 27.01797029 | 27.01797029 | 27 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 1.864010117 | | | | | | | 1 | 2.751320803 | | | |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 1.864010117 | | | | | | | 1 | 2.751320803 | | | |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1.864010117 | | | | | | | 1 | 2.751320803 | | | |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 1.864010117 | | | | | | | 1 | 2.751320803 | | | |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.03151318 | 2.974844187 | 0.000297484 | 0.0003 | 0.15 | 0 | 0 | 1 | 12.59337653 | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.03151318 | 31.35561405 | 0.003135561 | 0.0031 | 64.2 | 1 | 64.2 | 1 | 12.59337653 | 808.4947731 | 808.4947731 | 810 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.03151318 | 15.34691864 | 0.001534692 | 0.0015 | 0.63 | 1 | 0.63 | 1 | 12.59337653 | 7.933827213 | 7.933827213 | 7.9 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.03151318 | 66.17767789 | 0.006617768 | 0.0066 | 30.8 | 1 | 30.8 | 1 | 12.59337653 | 387.8759971 | 387.8759971 | 390 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.03151318 | 5.357240591 | 0.000535724 | 0.00054 | 5.92 | 1 | 5.92 | 1 | 12.59337653 | 74.55278905 | 74.55278905 | 75 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.03151318 | 1.427547052 | 0.000142755 | 0.00014 | 1.91 | 1 | 1.91 | 1 | 12.59337653 | 24.05334917 | 24.05334917 | 24 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.03151318 | 8.792177206 | 0.000879218 | 0.00088 | 9.18 | 1 | 9.18 | 1 | 12.59337653 | 115.6071965 | 115.6071965 | 120 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.03151318 | 63.9717553 | 0.006397176 | 0.0064 | 33.3 | 1 | 33.3 | 1 | 12.59337653 | 419.3594384 | 419.3594384 | 420 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.03151318 | 11.69138976 | 0.001169139 | 0.0012 | 12.6 | 1 | 12.6 | 1 | 12.59337653 | 158.6765443 | 158.6765443 | 160 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.03151318 | 9.674546244 | 0.000967455 | 0.00097 | 9.82 | 1 | 9.82 | 1 | 12.59337653 | 123.6669575 | 123.6669575 | 120 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0.03151318 | | | | | | | 1 | 12.59337653 | | | |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.03151318 | | | | | | | 1 | 12.59337653 | | | |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.03151318 | | | | | | | 1 | 12.59337653 | | | |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.03151318 | | | | | | | 1 | 12.59337653 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.090869309 | 8.578062741 | 0.000857806 | 0.00086 | 0.15 | 0 | 0 | 1 | 9.476238553 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.090869309 | 90.41496215 | 0.009041496 | 0.009 | 64.2 | 1 | 64.2 | 1 | 9.476238553 | 608.3745151 | 608.3745151 | 610 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.090869309 | 44.25335333 | 0.004425335 | 0.0044 | 0.63 | 1 | 0.63 | 1 | 9.476238553 | 5.970030289 | 5.970030289 | 6 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.090869309 | 190.8255483 | 0.019082555 | 0.019 | 30.8 | 1 | 30.8 | 1 | 9.476238553 | 291.8681474 | 291.8681474 | 290 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.090869309 | 15.44778248 | 0.001544778 | 0.0015 | 5.92 | 1 | 5.92 | 1 | 9.476238553 | 56.09933224 | 56.09933224 | 56 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.090869309 | 4.116379684 | 0.000411638 | 0.00041 | 1.91 | 1 | 1.91 | 1 | 9.476238553 | 18.09961564 | 18.09961564 | 18 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.090869309 | 25.35253713 | 0.002535254 | 0.0025 | 9.18 | 1 | 9.18 | 1 | 9.476238553 | 86.99186992 | 86.99186992 | 87 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.090869309 | 184.4646967 | 0.01844647 | 0.018 | 33.3 | 1 | 33.3 | 1 | 9.476238553 | 315.5587438 | 315.5587438 | 320 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.090869309 | 33.71251353 | 0.003371251 | 0.0034 | 12.6 | 1 | 12.6 | 1 | 9.476238553 | 119.4006058 | 119.4006058 | 120 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.090869309 | 27.89687777 | 0.002789688 | 0.0028 | 9.82 | 1 | 9.82 | 1 | 9.476238553 | 93.05666259 | 93.05666259 | 93 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0.090869309 | | | | | | | 1 | 9.476238553 | | | |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.090869309 | | | | | | | 1 | 9.476238553 | | | |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.090869309 | | | | | | | 1 | 9.476238553 | | | |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.090869309 | | | | | | | 1 | 9.476238553 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.15 | 0 | 0 | 1 | 12.56371677 | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 64.2 | 1 | 64.2 | 1 | 12.56371677 | 806.5906167 | 806.5906167 | 810 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 1 | 12.56371677 | 7.915141566 | 7.915141566 | 7.9 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 30.8 | 1 | 30.8 | 1 | 12.56371677 | 386.9624765 | 386.9624765 | 390 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.92 | 1 | 5.92 | 1 | 12.56371677 | 74.37720328 | 74.37720328 | 74 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 1 | 12.56371677 | 23.99669903 | 23.99669903 | 24 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 9.18 | 1 | 9.18 | 1 | 12.56371677 | 115.33492 | 115.33492 | 120 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 33.3 | 1 | 33.3 | 1 | 12.56371677 | 418.3717685 | 418.3717685 | 420 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 12.6 | 1 | 12.6 | 1 | 12.56371677 | 158.3028313 | 158.3028313 | 160 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 9.82 | 1 | 9.82 | 1 | 12.56371677 | 123.3756987 | 123.3756987 | 120 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | 12.56371677 | | | |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | 12.56371677 | | | |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | 12.56371677 | | | |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | 12.56371677 | | | |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.039575092 | 3.735888678 | 0.000373589 | 0.00037 | 0.15 | 0 | 0 | 1 | 0.83878342 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.039575092 | 39.37721647 | 0.003937722 | 0.0039 | 64.2 | 1 | 64.2 | 1 | 0.83878342 | 53.84989557 | 53.84989557 | 54 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.039575092 | 19.27306977 | 0.001927307 | 0.0019 | 0.63 | 1 | 0.63 | 1 | 0.83878342 | 0.528433555 | 0.528433555 | 0.53 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.039575092 | 83.10769305 | 0.008310769 | 0.0083 | 30.8 | 1 | 30.8 | 1 | 0.83878342 | 25.83452934 | 25.83452934 | 26 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.039575092 | 6.727765628 | 0.000672777 | 0.00067 | 5.92 | 1 | 5.92 | 1 | 0.83878342 | 4.965597847 | 4.965597847 | 5 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.039575092 | 1.792751664 | 0.000179275 | 0.00018 | 1.91 | 1 | 1.91 | 1 | 0.83878342 | 1.602076332 | 1.602076332 | 1.6 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.039575092 | 11.04145065 | 0.001104145 | 0.0011 | 9.18 | 1 | 9.18 | 1 | 0.83878342 | 7.700031797 | 7.700031797 | 7.7 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.039575092 | 80.33743662 | 0.008033744 | 0.008 | 33.3 | 1 | 33.3 | 1 | 0.83878342 | 27.93148789 | 27.93148789 | 28 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.039575092 | 14.68235911 | 0.001468236 | 0.0015 | 12.6 | 1 | 12.6 | 1 | 0.83878342 | 10.56867109 | 10.56867109 | 11 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.039575092 | 12.14955322 | 0.001214955 | 0.0012 | 9.82 | 1 | 9.82 | 1 | 0.83878342 | 8.236853185 | 8.236853185 | 8.2 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | 0.039575092 | | | | | | | 1 | 0.83878342 | | | |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.039575092 | | | | | | | 1 | 0.83878342 | | | |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.039575092 | | | | | | | 1 | 0.83878342 | | | |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.039575092 | | | | | | | 1 | 0.83878342 | | | |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.055022704 | 5.194143268 | 0.000519414 | 0.00052 | 0.15 | 0 | 0 | 1 | 0.982800983 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.055022704 | 54.74759058 | 0.005474759 | 0.0055 | 64.2 | 1 | 64.2 | 1 | 0.982800983 | 63.0958231 | 63.0958231 | 63 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.055022704 | 26.7960569 | 0.002679606 | 0.0027 | 0.63 | 1 | 0.63 | 1 | 0.982800983 | 0.619164619 | 0.619164619 | 0.62 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.055022704 | 115.5476786 | 0.011554768 | 0.012 | 30.8 | 1 | 30.8 | 1 | 0.982800983 | 30.27027027 | 30.27027027 | 30 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.055022704 | 9.353859698 | 0.000935386 | 0.00094 | 5.92 | 1 | 5.92 | 1 | 0.982800983 | 5.818181818 | 5.818181818 | 5.8 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.055022704 | 2.492528496 | 0.000249253 | 0.00025 | 1.91 | 1 | 1.91 | 1 | 0.982800983 | 1.877149877 | 1.877149877 | 1.9 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.055022704 | 15.35133445 | 0.001535133 | 0.0015 | 9.18 | 1 | 9.18 | 1 | 0.982800983 | 9.022113022 | 9.022113022 | 9 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.055022704 | 111.6960893 | 0.011169609 | 0.011 | 33.3 | 1 | 33.3 | 1 | 0.982800983 | 32.72727273 | 32.72727273 | 33 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.055022704 | 20.41342322 | 0.002041342 | 0.002 | 12.6 | 1 | 12.6 | 1 | 0.982800983 | 12.38329238 | 12.38329238 | 12 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.055022704 | 16.89197016 | 0.001689197 | 0.0017 | 9.82 | 1 | 9.82 | 1 | 0.982800983 | 9.651105651 | 9.651105651 | 9.7 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | 0.055022704 | | | | | | | 1 | 0.982800983 | | | |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.055022704 | | | | | | | 1 | 0.982800983 | | | |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.055022704 | | | | | | | 1 | 0.982800983 | | | |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.055022704 | | | | | | | 1 | 0.982800983 | | | |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.47142285 | 44.50231707 | 0.004450232 | 0.0045 | 0.15 | 0 | 0 | 1 | 55.03211386 | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.47142285 | 469.065736 | 0.046906574 | 0.047 | 64.2 | 1 | 64.2 | 1 | 55.03211386 | 3533.06171 | 3533.06171 | 3500 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.47142285 | 229.5829281 | 0.022958293 | 0.023 | 0.63 | 1 | 0.63 | 1 | 55.03211386 | 34.67023173 | 34.67023173 | 35 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.47142285 | 989.9879856 | 0.098998799 | 0.099 | 30.8 | 1 | 30.8 | 1 | 55.03211386 | 1694.989107 | 1694.989107 | 1700 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.47142285 | 80.14188455 | 0.008014188 | 0.008 | 5.92 | 1 | 5.92 | 1 | 55.03211386 | 325.790114 | 325.790114 | 330 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.47142285 | 21.35545512 | 0.002135546 | 0.0021 | 1.91 | 1 | 1.91 | 1 | 55.03211386 | 105.1113375 | 105.1113375 | 110 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.47142285 | 131.5269752 | 0.013152698 | 0.013 | 9.18 | 1 | 9.18 | 1 | 55.03211386 | 505.1948052 | 505.1948052 | 510 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.47142285 | 956.9883861 | 0.095698839 | 0.096 | 33.3 | 1 | 33.3 | 1 | 55.03211386 | 1832.569391 | 1832.569391 | 1800 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.47142285 | 174.8978775 | 0.017489788 | 0.017 | 12.6 | 1 | 12.6 | 1 | 55.03211386 | 693.4046346 | 693.4046346 | 690 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.47142285 | 144.726815 | 0.014472682 | 0.014 | 9.82 | 1 | 9.82 | 1 | 55.03211386 | 540.4153581 | 540.4153581 | 540 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | 0.47142285 | | | | | | | 1 | 55.03211386 | | | |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.47142285 | | | | | | | 1 | 55.03211386 | | | |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.47142285 | | | | | | | 1 | 55.03211386 | | | |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.47142285 | | | | | | | 1 | 55.03211386 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.081658966 | 7.708606425 | 0.000770861 | 0.00077 | 0.15 | 0 | 0 | 1 | 10.24849883 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.081658966 | 81.25067154 | 0.008125067 | 0.0081 | 64.2 | 1 | 64.2 | 1 | 10.24849883 | 657.9536248 | 657.9536248 | 660 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.081658966 | 39.76791662 | 0.003976792 | 0.004 | 0.63 | 1 | 0.63 | 1 | 10.24849883 | 6.456554262 | 6.456554262 | 6.5 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.081658966 | 171.4838294 | 0.017148383 | 0.017 | 30.8 | 1 | 30.8 | 1 | 10.24849883 | 315.6537639 | 315.6537639 | 320 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.081658966 | 13.88202428 | 0.001388202 | 0.0014 | 5.92 | 1 | 5.92 | 1 | 10.24849883 | 60.67111306 | 60.67111306 | 61 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.081658966 | 3.699151177 | 0.000369915 | 0.00037 | 1.91 | 1 | 1.91 | 1 | 10.24849883 | 19.57463276 | 19.57463276 | 20 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.081658966 | 22.78285162 | 0.002278285 | 0.0023 | 9.18 | 1 | 9.18 | 1 | 10.24849883 | 94.08121924 | 94.08121924 | 94 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.081658966 | 165.7677017 | 0.01657677 | 0.017 | 33.3 | 1 | 33.3 | 1 | 10.24849883 | 341.275011 | 341.275011 | 340 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.081658966 | 30.29547652 | 0.003029548 | 0.003 | 12.6 | 1 | 12.6 | 1 | 10.24849883 | 129.1310852 | 129.1310852 | 130 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.081658966 | 25.06930268 | 0.00250693 | 0.0025 | 9.82 | 1 | 9.82 | 1 | 10.24849883 | 100.6402585 | 100.6402585 | 100 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0.081658966 | | | | | | | 1 | 10.24849883 | | | |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.081658966 | | | | | | | 1 | 10.24849883 | | | |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.081658966 | | | | | | | 1 | 10.24849883 | | | |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.081658966 | | | | | | | 1 | 10.24849883 | | | |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 45.7 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 17.3 | 1 | 17.3 | 1 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 2.7 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.2 | 1 | 5.2 | 1 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 3.4 | 1 | 3.4 | 0.1 | NA | 0 | 0 | 0 | 6.6 | 1 | 6.6 | 1 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 12.5 | 1 | 12.5 | 0.1 | NA | 0 | 0 | 0 | 24.4 | 1 | 24.4 | 1 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 7.33 | 1 | 7.33 | 0.1 | NA | 0 | 0 | 0 | 16.4 | 1 | 16.4 | 1 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 6.66 | 1 | 6.66 | 0.1 | NA | 0 | 0 | 0 | 12.2 | 1 | 12.2 | 1 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 5.95 | 1 | 5.95 | 0.1 | NA | 0 | 0 | 0 | 13.9 | 1 | 13.9 | 1 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.11 | 1 | 1.11 | 0.1 | NA | 0 | 0 | 0 | 1.63 | 1 | 1.63 | 1 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 11.3 | 1 | 11.3 | 0.1 | NA | 0 | 0 | 0 | 21.2 | 1 | 21.2 | 1 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 8.84 | 1 | 8.84 | 0.1 | NA | 0 | 0 | 0 | 15.5 | 1 | 15.5 | 1 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 6.01 | 1 | 6.01 | 0.1 | NA | 0 | 0 | 0 | 9.81 | 1 | 9.81 | 1 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 6.86 | 1 | 6.86 | 0.1 | NA | 0 | 0 | 0 | 10.6 | 1 | 10.6 | 1 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7.7 | 1 | 7.7 | 0.1 | NA | 0 | 0 | 0 | 14.6 | 1 | 14.6 | 1 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7.87 | 1 | 7.87 | 0.1 | NA | 0 | 0 | 0 | 15.5 | 1 | 15.5 | 1 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 6.4 | 1 | 6.4 | 0.1 | NA | 0 | 0 | 0 | 9.52 | 1 | 9.52 | 1 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 2.8 | 1 | 2.8 | 0.1 | NA | 0 | 0 | 0 | 6.92 | 1 | 6.92 | 1 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.47 | 1 | 2.47 | 0.1 | NA | 0 | 0 | 0 | 4.09 | 1 | 4.09 | 1 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.42 | 1 | 2.42 | 0.1 | NA | 0 | 0 | 0 | 4.02 | 1 | 4.02 | 1 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 13.2 | 1 | 13.2 | 0.1 | NA | 0 | 0 | 0 | 26.8 | 1 | 26.8 | 1 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 5.66 | 1 | 5.66 | 0.1 | NA | 0 | 0 | 0 | 7.72 | 1 | 7.72 | 1 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.25 | 1 | 3.25 | 0.1 | NA | 0 | 0 | 0 | 5.73 | 1 | 5.73 | 1 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 5.83 | 1 | 5.83 | 0.1 | NA | 0 | 0 | 0 | 11 | 1 | 11 | 1 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 2.73 | 1 | 2.73 | 0.1 | NA | 0 | 0 | 0 | 5.72 | 1 | 5.72 | 1 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 5.36 | 1 | 5.36 | 0.1 | NA | 0 | 0 | 0 | 10.2 | 1 | 10.2 | 1 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 13.7 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 28.4 | 1 | 28.4 | 1 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 7.72 | 1 | 7.72 | 0.1 | NA | 0 | 0 | 0 | 12.7 | 1 | 12.7 | 1 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 7.61 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 17 | 1 | 17 | 1 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 11.5 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 21.4 | 1 | 21.4 | 1 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 4.66 | 1 | 4.66 | 0.1 | NA | 0 | 0 | 0 | 6.37 | 1 | 6.37 | 1 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 5.38 | 1 | 5.38 | 0.1 | NA | 0 | 0 | 0 | 11.4 | 1 | 11.4 | 1 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 6.34 | 1 | 6.34 | 0.1 | NA | 0 | 0 | 0 | 12.7 | 1 | 12.7 | 1 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 5.58 | 1 | 5.58 | 0.1 | NA | 0 | 0 | 0 | 7.85 | 1 | 7.85 | 1 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 9.61 | 1 | 9.61 | 0.1 | NA | 0 | 0 | 0 | 16.7 | 1 | 16.7 | 1 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 5.15 | 1 | 5.15 | 0.1 | NA | 0 | 0 | 0 | 7.95 | 1 | 7.95 | 1 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 11.3 | 1 | 11.3 | 0.1 | NA | 0 | 0 | 0 | 18.4 | 1 | 18.4 | 1 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 12.22 | 1 | 12.22 | 0.1 | NA | 0 | 0 | 0 | 19 | 1 | 19 | 1 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9.72 | 1 | 9.72 | 0.1 | NA | 0 | 0 | 0 | 16.8 | 1 | 16.8 | 1 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 6.16 | 1 | 6.16 | 0.1 | NA | 0 | 0 | 0 | 11.3 | 1 | 11.3 | 1 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 13 | 1 | 13 | 0.1 | NA | 0 | 0 | 0 | 23.8 | 1 | 23.8 | 1 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 15.2 | 1 | 15.2 | 0.1 | NA | 0 | 0 | 0 | 25.8 | 1 | 25.8 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 15.3 | 1 | 15.3 | 0.1 | NA | 0 | 0 | 0 | 28.6 | 1 | 28.6 | 1 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 1.22 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.08 | 1 | 4.08 | 1 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 17.6 | 1 | 17.6 | 0.1 | NA | 0 | 0 | 0 | 35 | 1 | 35 | 1 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 13.8 | 1 | 13.8 | 0.1 | NA | 0 | 0 | 0 | 19.4 | 1 | 19.4 | 1 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 5.75 | 1 | 5.75 | 0.1 | NA | 0 | 0 | 0 | 5.66 | 1 | 5.66 | 1 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 5.58 | 1 | 5.58 | 0.1 | NA | 0 | 0 | 0 | 7.93 | 1 | 7.93 | 1 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 7.69 | 1 | 7.69 | 0.1 | NA | 0 | 0 | 0 | 30.7 | 1 | 30.7 | 1 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 14.6 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 19.8 | 1 | 19.8 | 1 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.815 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 10.8 | 1 | 10.8 | 1 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 2.4 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.61 | 0 | 0 | 1 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 10.8 | 1 | 10.8 | 1 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 11.4 | 1 | 11.4 | 0.1 | NA | 0 | 0 | 0 | 73.7 | 1 | 73.7 | 1 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 1.3 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 7.57 | 1 | 7.57 | 1 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.44 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 9.89 | 1 | 9.89 | 1 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.864 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.32 | 1 | 5.32 | 1 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.866 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 11.5 | 1 | 11.5 | 1 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 9.04 | 1 | 9.04 | 0.1 | NA | 0 | 0 | 0 | 18.9 | 1 | 18.9 | 1 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3.84 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.43 | 1 | 6.43 | 1 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 10.1 | 1 | 10.1 | 0.1 | NA | 0 | 0 | 0 | 15 | 1 | 15 | 1 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16.9 | 1 | 16.9 | 0.1 | NA | 0 | 0 | 0 | 32.3 | 1 | 32.3 | 1 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 8.82 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 19.5 | 1 | 19.5 | 1 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 7.59 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 1 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 1140 | 1 | 1140 | 0.1 | NA | 0 | 0 | 0 | 23.7 | 1 | 23.7 | 1 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4.38 | 1 | 4.38 | 0.1 | NA | 0 | 0 | 0 | 6.26 | 1 | 6.26 | 1 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4.56 | 1 | 4.56 | 0.1 | NA | 0 | 0 | 0 | 9.23 | 1 | 9.23 | 1 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 780 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 15.3 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 2.22 | 1 | 2.22 | 0.1 | NA | 0 | 0 | 0 | 4.65 | 1 | 4.65 | 1 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.4 | 1 | 0.4 | 0.1 | NA | 0 | 0 | 0 | 0.66 | 1 | 0.66 | 1 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1.69 | 1 | 1.69 | 0.1 | NA | 0 | 0 | 0 | 2.51 | 1 | 2.51 | 1 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.14 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 4.32 | 1 | 4.32 | 0.1 | NA | 0 | 0 | 0 | 6.76 | 1 | 6.76 | 1 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 7.71 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.8 | 1 | 1.8 | 1 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 73.6 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.73 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 101 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 9.3 | 1 | 9.3 | 1 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 3.55 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 1 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1.1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.6 | 1 | 2.6 | 1 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1.2 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.3 | 1 | 2.3 | 1 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 3.4 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.5 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 11.5 | 1 | 11.5 | 0.1 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 1 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.47 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.48 | 0 | 0 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.5 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 1 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1.7 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.7 | 1 | 1.7 | 1 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 2.28 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.3 | 1 | 1.3 | 1 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 17.65 | 1 | 17.65 | 0.1 | NA | 0 | 0 | 0 | 26.75 | 1 | 26.75 | 1 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 1.1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 8 | 1 | 8 | 1 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.57 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.76 | 1 | 1.76 | 1 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 2.53 | 1 | 2.53 | 0.1 | NA | 0 | 0 | 0 | 1.98 | 1 | 1.98 | 1 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 322 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.7 | 1 | 4.7 | 1 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 708 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.23 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 27.9 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 18.2 | 1 | 18.2 | 1 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 158 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.6 | 1 | 4.6 | 1 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 126 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4 | 1 | 4 | 1 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 58.8 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.455 | 0 | 0 | 1 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 23.6 | 1 | 23.6 | 0.1 | NA | 0 | 0 | 0 | 37.1 | 1 | 37.1 | 1 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.83 | 1 | 1.83 | 0.1 | NA | 0 | 0 | 0 | 3.17 | 1 | 3.17 | 1 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.65 | 1 | 2.65 | 0.1 | NA | 0 | 0 | 0 | 3.85 | 1 | 3.85 | 1 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 4.77 | 1 | 4.77 | 0.1 | NA | 0 | 0 | 0 | 7.26 | 1 | 7.26 | 1 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 6.8 | 1 | 6.8 | 0.1 | NA | 0 | 0 | 0 | 16.1 | 1 | 16.1 | 1 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 4.12 | 1 | 4.12 | 0.1 | NA | 0 | 0 | 0 | 8.47 | 1 | 8.47 | 1 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 6.25 | 1 | 6.25 | 0.1 | NA | 0 | 0 | 0 | 10.4 | 1 | 10.4 | 1 |
| | | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 45.7 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 17.3 | 1 | 17.3 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 2.7 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.2 | 1 | 5.2 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 3.4 | 1 | 3.4 | 0.1 | NA | 0 | 0 | 0 | 6.6 | 1 | 6.6 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 12.5 | 1 | 12.5 | 0.1 | NA | 0 | 0 | 0 | 24.4 | 1 | 24.4 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 7.33 | 1 | 7.33 | 0.1 | NA | 0 | 0 | 0 | 16.4 | 1 | 16.4 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 6.66 | 1 | 6.66 | 0.1 | NA | 0 | 0 | 0 | 12.2 | 1 | 12.2 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 5.95 | 1 | 5.95 | 0.1 | NA | 0 | 0 | 0 | 13.9 | 1 | 13.9 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.11 | 1 | 1.11 | 0.1 | NA | 0 | 0 | 0 | 1.63 | 1 | 1.63 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 11.3 | 1 | 11.3 | 0.1 | NA | 0 | 0 | 0 | 21.2 | 1 | 21.2 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 8.84 | 1 | 8.84 | 0.1 | NA | 0 | 0 | 0 | 15.5 | 1 | 15.5 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 6.01 | 1 | 6.01 | 0.1 | NA | 0 | 0 | 0 | 9.81 | 1 | 9.81 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 6.86 | 1 | 6.86 | 0.1 | NA | 0 | 0 | 0 | 10.6 | 1 | 10.6 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7.7 | 1 | 7.7 | 0.1 | NA | 0 | 0 | 0 | 14.6 | 1 | 14.6 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7.87 | 1 | 7.87 | 0.1 | NA | 0 | 0 | 0 | 15.5 | 1 | 15.5 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 6.4 | 1 | 6.4 | 0.1 | NA | 0 | 0 | 0 | 9.52 | 1 | 9.52 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 2.8 | 1 | 2.8 | 0.1 | NA | 0 | 0 | 0 | 6.92 | 1 | 6.92 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.47 | 1 | 2.47 | 0.1 | NA | 0 | 0 | 0 | 4.09 | 1 | 4.09 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.42 | 1 | 2.42 | 0.1 | NA | 0 | 0 | 0 | 4.02 | 1 | 4.02 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 13.2 | 1 | 13.2 | 0.1 | NA | 0 | 0 | 0 | 26.8 | 1 | 26.8 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 5.66 | 1 | 5.66 | 0.1 | NA | 0 | 0 | 0 | 7.72 | 1 | 7.72 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.25 | 1 | 3.25 | 0.1 | NA | 0 | 0 | 0 | 5.73 | 1 | 5.73 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 5.83 | 1 | 5.83 | 0.1 | NA | 0 | 0 | 0 | 11 | 1 | 11 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 2.73 | 1 | 2.73 | 0.1 | NA | 0 | 0 | 0 | 5.72 | 1 | 5.72 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 5.36 | 1 | 5.36 | 0.1 | NA | 0 | 0 | 0 | 10.2 | 1 | 10.2 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 13.7 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 28.4 | 1 | 28.4 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 7.72 | 1 | 7.72 | 0.1 | NA | 0 | 0 | 0 | 12.7 | 1 | 12.7 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 7.61 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 17 | 1 | 17 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 11.5 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 21.4 | 1 | 21.4 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 4.66 | 1 | 4.66 | 0.1 | NA | 0 | 0 | 0 | 6.37 | 1 | 6.37 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 5.38 | 1 | 5.38 | 0.1 | NA | 0 | 0 | 0 | 11.4 | 1 | 11.4 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 6.34 | 1 | 6.34 | 0.1 | NA | 0 | 0 | 0 | 12.7 | 1 | 12.7 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 5.58 | 1 | 5.58 | 0.1 | NA | 0 | 0 | 0 | 7.85 | 1 | 7.85 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 9.61 | 1 | 9.61 | 0.1 | NA | 0 | 0 | 0 | 16.7 | 1 | 16.7 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 5.15 | 1 | 5.15 | 0.1 | NA | 0 | 0 | 0 | 7.95 | 1 | 7.95 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 11.3 | 1 | 11.3 | 0.1 | NA | 0 | 0 | 0 | 18.4 | 1 | 18.4 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 12.22 | 1 | 12.22 | 0.1 | NA | 0 | 0 | 0 | 19 | 1 | 19 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9.72 | 1 | 9.72 | 0.1 | NA | 0 | 0 | 0 | 16.8 | 1 | 16.8 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 6.16 | 1 | 6.16 | 0.1 | NA | 0 | 0 | 0 | 11.3 | 1 | 11.3 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 13 | 1 | 13 | 0.1 | NA | 0 | 0 | 0 | 23.8 | 1 | 23.8 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 15.2 | 1 | 15.2 | 0.1 | NA | 0 | 0 | 0 | 25.8 | 1 | 25.8 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 15.3 | 1 | 15.3 | 0.1 | NA | 0 | 0 | 0 | 28.6 | 1 | 28.6 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 1.22 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.08 | 1 | 4.08 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 17.6 | 1 | 17.6 | 0.1 | NA | 0 | 0 | 0 | 35 | 1 | 35 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 13.8 | 1 | 13.8 | 0.1 | NA | 0 | 0 | 0 | 19.4 | 1 | 19.4 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 5.75 | 1 | 5.75 | 0.1 | NA | 0 | 0 | 0 | 5.66 | 1 | 5.66 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 5.58 | 1 | 5.58 | 0.1 | NA | 0 | 0 | 0 | 7.93 | 1 | 7.93 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 7.69 | 1 | 7.69 | 0.1 | NA | 0 | 0 | 0 | 30.7 | 1 | 30.7 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 14.6 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 19.8 | 1 | 19.8 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.815 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 10.8 | 1 | 10.8 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 2.4 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.61 | 0 | 0 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 10.8 | 1 | 10.8 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 11.4 | 1 | 11.4 | 0.1 | NA | 0 | 0 | 0 | 73.7 | 1 | 73.7 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 1.3 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 7.57 | 1 | 7.57 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.44 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 9.89 | 1 | 9.89 | 1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.864 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.32 | 1 | 5.32 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.866 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 11.5 | 1 | 11.5 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 9.04 | 1 | 9.04 | 0.1 | NA | 0 | 0 | 0 | 18.9 | 1 | 18.9 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3.84 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.43 | 1 | 6.43 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 10.1 | 1 | 10.1 | 0.1 | NA | 0 | 0 | 0 | 15 | 1 | 15 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16.9 | 1 | 16.9 | 0.1 | NA | 0 | 0 | 0 | 32.3 | 1 | 32.3 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 8.82 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 19.5 | 1 | 19.5 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 7.59 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 1140 | 1 | 1140 | 0.1 | NA | 0 | 0 | 0 | 23.7 | 1 | 23.7 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4.38 | 1 | 4.38 | 0.1 | NA | 0 | 0 | 0 | 6.26 | 1 | 6.26 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4.56 | 1 | 4.56 | 0.1 | NA | 0 | 0 | 0 | 9.23 | 1 | 9.23 | 1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 780 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 15.3 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 2.22 | 1 | 2.22 | 0.1 | NA | 0 | 0 | 0 | 4.65 | 1 | 4.65 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.4 | 1 | 0.4 | 0.1 | NA | 0 | 0 | 0 | 0.66 | 1 | 0.66 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1.69 | 1 | 1.69 | 0.1 | NA | 0 | 0 | 0 | 2.51 | 1 | 2.51 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.14 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 4.32 | 1 | 4.32 | 0.1 | NA | 0 | 0 | 0 | 6.76 | 1 | 6.76 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 7.71 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.8 | 1 | 1.8 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 73.6 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.73 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 101 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 9.3 | 1 | 9.3 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 3.55 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1.1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.6 | 1 | 2.6 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1.2 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.3 | 1 | 2.3 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 3.4 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.5 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 11.5 | 1 | 11.5 | 0.1 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.47 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.48 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.5 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1.7 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.7 | 1 | 1.7 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 2.28 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.3 | 1 | 1.3 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 17.65 | 1 | 17.65 | 0.1 | NA | 0 | 0 | 0 | 26.75 | 1 | 26.75 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicat | 6/26/2007 | SO | 89 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 1.1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 8 | 1 | 8 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.57 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.76 | 1 | 1.76 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 2.53 | 1 | 2.53 | 0.1 | NA | 0 | 0 | 0 | 1.98 | 1 | 1.98 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicat | 6/29/2007 | SO | 93 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 322 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.7 | 1 | 4.7 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 708 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.23 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 27.9 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 18.2 | 1 | 18.2 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 158 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.6 | 1 | 4.6 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 126 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4 | 1 | 4 | 1 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 58.8 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.455 | 0 | 0 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 23.6 | 1 | 23.6 | 0.1 | NA | 0 | 0 | 0 | 37.1 | 1 | 37.1 | 1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.83 | 1 | 1.83 | 0.1 | NA | 0 | 0 | 0 | 3.17 | 1 | 3.17 | 1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.65 | 1 | 2.65 | 0.1 | NA | 0 | 0 | 0 | 3.85 | 1 | 3.85 | 1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 4.77 | 1 | 4.77 | 0.1 | NA | 0 | 0 | 0 | 7.26 | 1 | 7.26 | 1 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 6.8 | 1 | 6.8 | 0.1 | NA | 0 | 0 | 0 | 16.1 | 1 | 16.1 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 4.12 | 1 | 4.12 | 0.1 | NA | 0 | 0 | 0 | 8.47 | 1 | 8.47 | 1 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 6.25 | 1 | 6.25 | 0.1 | NA | 0 | 0 | 0 | 10.4 | 1 | 10.4 | 1 |
| | | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 45.7 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 17.3 | 1 | 17.3 | 1 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 2.7 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 5.2 | 1 | 5.2 | 1 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 3.4 | 1 | 3.4 | 0.1 | 0.076574436 | 0.260353083 | 0.026035308 | 0.026 | 6.6 | 1 | 6.6 | 1 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 12.5 | 1 | 12.5 | 0.1 | 0.076574436 | 0.957180451 | 0.095718045 | 0.096 | 24.4 | 1 | 24.4 | 1 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 7.33 | 1 | 7.33 | 0.1 | 0.076574436 | 0.561290617 | 0.056129062 | 0.056 | 16.4 | 1 | 16.4 | 1 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 6.66 | 1 | 6.66 | 0.1 | 0.076574436 | 0.509985744 | 0.050998574 | 0.051 | 12.2 | 1 | 12.2 | 1 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 5.95 | 1 | 5.95 | 0.1 | 0.076574436 | 0.455617895 | 0.045561789 | 0.046 | 13.9 | 1 | 13.9 | 1 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.11 | 1 | 1.11 | 0.1 | 0.076574436 | 0.084997624 | 0.008499762 | 0.0085 | 1.63 | 1 | 1.63 | 1 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 11.3 | 1 | 11.3 | 0.1 | 0.076574436 | 0.865291128 | 0.086529113 | 0.087 | 21.2 | 1 | 21.2 | 1 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 8.84 | 1 | 8.84 | 0.1 | 0.076574436 | 0.676918015 | 0.067691802 | 0.068 | 15.5 | 1 | 15.5 | 1 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 6.01 | 1 | 6.01 | 0.1 | 0.076574436 | 0.460212361 | 0.046021236 | 0.046 | 9.81 | 1 | 9.81 | 1 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 6.86 | 1 | 6.86 | 0.1 | 0.076574436 | 0.525300632 | 0.052530063 | 0.053 | 10.6 | 1 | 10.6 | 1 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7.7 | 1 | 7.7 | 0.1 | 0.076574436 | 0.589623158 | 0.058962316 | 0.059 | 14.6 | 1 | 14.6 | 1 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7.87 | 1 | 7.87 | 0.1 | 0.076574436 | 0.602640812 | 0.060264081 | 0.06 | 15.5 | 1 | 15.5 | 1 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.1 | 0.076574436 | | | | | | | 1 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 6.4 | 1 | 6.4 | 0.1 | 0.076574436 | 0.490076391 | 0.049007639 | 0.049 | 9.52 | 1 | 9.52 | 1 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 2.8 | 1 | 2.8 | 0.1 | 0.076574436 | 0.214408421 | 0.021440842 | 0.021 | 6.92 | 1 | 6.92 | 1 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.47 | 1 | 2.47 | 0.1 | 0.076574436 | 0.189138857 | 0.018913886 | 0.019 | 4.09 | 1 | 4.09 | 1 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.42 | 1 | 2.42 | 0.1 | 0.076574436 | 0.185310135 | 0.018531014 | 0.019 | 4.02 | 1 | 4.02 | 1 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 13.2 | 1 | 13.2 | 0.1 | 0.076574436 | 1.010782556 | 0.101078256 | 0.1 | 26.8 | 1 | 26.8 | 1 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 5.66 | 1 | 5.66 | 0.1 | 0.076574436 | 0.433411308 | 0.043341131 | 0.043 | 7.72 | 1 | 7.72 | 1 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.25 | 1 | 3.25 | 0.1 | 0.076574436 | 0.248866917 | 0.024886692 | 0.025 | 5.73 | 1 | 5.73 | 1 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 5.83 | 1 | 5.83 | 0.1 | 0.076574436 | 0.446428962 | 0.044642896 | 0.045 | 11 | 1 | 11 | 1 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 2.73 | 1 | 2.73 | 0.1 | 0.076574436 | 0.209048211 | 0.020904821 | 0.021 | 5.72 | 1 | 5.72 | 1 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 5.36 | 1 | 5.36 | 0.1 | 0.076574436 | 0.410438977 | 0.041043898 | 0.041 | 10.2 | 1 | 10.2 | 1 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 13.7 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 28.4 | 1 | 28.4 | 1 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 7.72 | 1 | 7.72 | 0.1 | 0.076574436 | 0.591154647 | 0.059115465 | 0.059 | 12.7 | 1 | 12.7 | 1 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 7.61 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 17 | 1 | 17 | 1 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 11.5 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 21.4 | 1 | 21.4 | 1 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 4.66 | 1 | 4.66 | 0.1 | 0.076574436 | 0.356836872 | 0.035683687 | 0.036 | 6.37 | 1 | 6.37 | 1 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 5.38 | 1 | 5.38 | 0.1 | 0.076574436 | 0.411970466 | 0.041197047 | 0.041 | 11.4 | 1 | 11.4 | 1 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 6.34 | 1 | 6.34 | 0.1 | 0.076574436 | 0.485481925 | 0.048548192 | 0.049 | 12.7 | 1 | 12.7 | 1 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 5.58 | 1 | 5.58 | 0.1 | 0.076574436 | 0.427285353 | 0.042728535 | 0.043 | 7.85 | 1 | 7.85 | 1 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 9.61 | 1 | 9.61 | 0.1 | 0.076574436 | 0.735880331 | 0.073588033 | 0.074 | 16.7 | 1 | 16.7 | 1 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 5.15 | 1 | 5.15 | 0.1 | 0.076574436 | 0.394358346 | 0.039435835 | 0.039 | 7.95 | 1 | 7.95 | 1 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 11.3 | 1 | 11.3 | 0.1 | 0.076574436 | 0.865291128 | 0.086529113 | 0.087 | 18.4 | 1 | 18.4 | 1 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 12.22 | 1 | 12.22 | 0.1 | 0.076574436 | 0.935739609 | 0.093573961 | 0.094 | 19 | 1 | 19 | 1 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.1 | 0.076574436 | | | | | | | 1 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9.72 | 1 | 9.72 | 0.1 | 0.076574436 | 0.744303519 | 0.074430352 | 0.074 | 16.8 | 1 | 16.8 | 1 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 6.16 | 1 | 6.16 | 0.1 | 0.076574436 | 0.471698526 | 0.047169853 | 0.047 | 11.3 | 1 | 11.3 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 13 | 1 | 13 | 0.1 | 0.076574436 | 0.995467669 | 0.099546767 | 0.1 | 23.8 | 1 | 23.8 | 1 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 15.2 | 1 | 15.2 | 0.1 | 0.076574436 | 1.163931429 | 0.116393143 | 0.12 | 25.8 | 1 | 25.8 | 1 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 15.3 | 1 | 15.3 | 0.1 | 0.076574436 | 1.171588872 | 0.117158887 | 0.12 | 28.6 | 1 | 28.6 | 1 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 1.22 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 4.08 | 1 | 4.08 | 1 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 17.6 | 1 | 17.6 | 0.1 | 0.076574436 | 1.347710075 | 0.134771008 | 0.13 | 35 | 1 | 35 | 1 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 13.8 | 1 | 13.8 | 0.1 | 0.076574436 | 1.056727218 | 0.105672722 | 0.11 | 19.4 | 1 | 19.4 | 1 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 5.75 | 1 | 5.75 | 0.1 | 0.076574436 | 0.440303008 | 0.044030301 | 0.044 | 5.66 | 1 | 5.66 | 1 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 5.58 | 1 | 5.58 | 0.1 | 0.076574436 | 0.427285353 | 0.042728535 | 0.043 | 7.93 | 1 | 7.93 | 1 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 7.69 | 1 | 7.69 | 0.1 | 0.076574436 | 0.588857414 | 0.058885741 | 0.059 | 30.7 | 1 | 30.7 | 1 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 14.6 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 19.8 | 1 | 19.8 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.815 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 10.8 | 1 | 10.8 | 1 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 2.4 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 3.61 | 0 | 0 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 1 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 10.8 | 1 | 10.8 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 11.4 | 1 | 11.4 | 0.1 | 0.076574436 | 0.872948571 | 0.087294857 | 0.087 | 73.7 | 1 | 73.7 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.1 | 0.076574436 | | | | | | | 1 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 1.3 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 7.57 | 1 | 7.57 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.44 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 9.89 | 1 | 9.89 | 1 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.864 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 5.32 | 1 | 5.32 | 1 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.866 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 11.5 | 1 | 11.5 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 9.04 | 1 | 9.04 | 0.1 | 0.076574436 | 0.692232902 | 0.06922329 | 0.069 | 18.9 | 1 | 18.9 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3.84 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 6.43 | 1 | 6.43 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 10.1 | 1 | 10.1 | 0.1 | 0.076574436 | 0.773401805 | 0.07734018 | 0.077 | 15 | 1 | 15 | 1 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16.9 | 1 | 16.9 | 0.1 | 0.076574436 | 1.29410797 | 0.129410797 | 0.13 | 32.3 | 1 | 32.3 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 8.82 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 19.5 | 1 | 19.5 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 7.59 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 1 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 1140 | 1 | 1140 | 0.1 | 0.076574436 | 87.29485714 | 8.729485714 | 8.7 | 23.7 | 1 | 23.7 | 1 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4.38 | 1 | 4.38 | 0.1 | 0.076574436 | 0.33539603 | 0.033539603 | 0.034 | 6.26 | 1 | 6.26 | 1 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4.56 | 1 | 4.56 | 0.1 | 0.076574436 | 0.349179429 | 0.034917943 | 0.035 | 9.23 | 1 | 9.23 | 1 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 780 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 15.3 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 2.22 | 1 | 2.22 | 0.1 | 0.076574436 | 0.169995248 | 0.016999525 | 0.017 | 4.65 | 1 | 4.65 | 1 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.4 | 1 | 0.4 | 0.1 | 0.076574436 | 0.030629774 | 0.003062977 | 0.0031 | 0.66 | 1 | 0.66 | 1 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1.69 | 1 | 1.69 | 0.1 | 0.076574436 | 0.129410797 | 0.01294108 | 0.013 | 2.51 | 1 | 2.51 | 1 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.13 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 0.14 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 4.32 | 1 | 4.32 | 0.1 | 0.076574436 | 0.330801564 | 0.033080156 | 0.033 | 6.76 | 1 | 6.76 | 1 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 7.71 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 1.8 | 1 | 1.8 | 1 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 73.6 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 4.73 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 101 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 9.3 | 1 | 9.3 | 1 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 3.55 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 1 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | 0.1 | 0.076574436 | | | | | | | 1 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1.1 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 2.6 | 1 | 2.6 | 1 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1.2 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 2.3 | 1 | 2.3 | 1 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 3.4 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 3.5 | 0 | 0 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 11.5 | 1 | 11.5 | 0.1 | 0.076574436 | 0.880606015 | 0.088060602 | 0.088 | 13.6 | 1 | 13.6 | 1 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.47 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 0.48 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.5 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 0.51 | 0 | 0 | 1 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1.7 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 1.7 | 1 | 1.7 | 1 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 2.28 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 1.3 | 1 | 1.3 | 1 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 17.65 | 1 | 17.65 | 0.1 | 0.076574436 | 1.351538797 | 0.13515388 | 0.14 | 26.75 | 1 | 26.75 | 1 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.1 | 0.076574436 | | | | | | | 1 |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 1.1 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 8 | 1 | 8 | 1 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.57 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 1.76 | 1 | 1.76 | 1 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 2.53 | 1 | 2.53 | 0.1 | 0.076574436 | 0.193733323 | 0.019373332 | 0.019 | 1.98 | 1 | 1.98 | 1 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.1 | 0.076574436 | | | | | | | 1 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 322 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 4.7 | 1 | 4.7 | 1 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 708 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 3.23 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 27.9 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 18.2 | 1 | 18.2 | 1 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 158 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 4.6 | 1 | 4.6 | 1 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 126 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 4 | 1 | 4 | 1 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 58.8 | 0 | 0 | 0.1 | 0.076574436 | 0 | 0 | 0 | 0.455 | 0 | 0 | 1 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 23.6 | 1 | 23.6 | 0.1 | 0.076574436 | 1.807156692 | 0.180715669 | 0.18 | 37.1 | 1 | 37.1 | 1 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.83 | 1 | 1.83 | 0.1 | 0.076574436 | 0.140131218 | 0.014013122 | 0.014 | 3.17 | 1 | 3.17 | 1 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.65 | 1 | 2.65 | 0.1 | 0.076574436 | 0.202922256 | 0.020292226 | 0.02 | 3.85 | 1 | 3.85 | 1 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 4.77 | 1 | 4.77 | 0.1 | 0.076574436 | 0.36526006 | 0.036526006 | 0.037 | 7.26 | 1 | 7.26 | 1 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 6.8 | 1 | 6.8 | 0.1 | 0.076574436 | 0.520706165 | 0.052070617 | 0.052 | 16.1 | 1 | 16.1 | 1 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 4.12 | 1 | 4.12 | 0.1 | 0.076574436 | 0.315486677 | 0.031548668 | 0.032 | 8.47 | 1 | 8.47 | 1 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 6.25 | 1 | 6.25 | 0.1 | 0.076574436 | 0.478590226 | 0.047859023 | 0.048 | 10.4 | 1 | 10.4 | 1 |
| | | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.1 | 0.556600948 | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.1 | 0.556600948 | 10.96503868 | 1.096503868 | 1.1 | 19.6 | 1 | 19.6 | 1 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.1 | 0.556600948 | 0.178112303 | 0.01781123 | 0.018 | 0.28 | 1 | 0.28 | 1 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.1 | 0.556600948 | 2.783004741 | 0.278300474 | 0.28 | 12.8 | 1 | 12.8 | 1 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.1 | 0.556600948 | 0.486469229 | 0.048646923 | 0.049 | 2.04 | 1 | 2.04 | 1 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.1 | 0.556600948 | 0.271621263 | 0.027162126 | 0.027 | 0.877 | 0 | 0 | 1 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.1 | 0.556600948 | 0.790373346 | 0.079037335 | 0.079 | 3.09 | 1 | 3.09 | 1 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.1 | 0.556600948 | 3.629038182 | 0.362903818 | 0.36 | 13 | 1 | 13 | 1 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.1 | 0.556600948 | 1.17999401 | 0.117999401 | 0.12 | 5.8 | 1 | 5.8 | 1 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.1 | 0.556600948 | 1.07423983 | 0.107423983 | 0.11 | 5.315 | 1 | 5.315 | 1 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | 0.556600948 | | | | | | | 1 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 0.556600948 | | | | | | | 1 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 0.556600948 | | | | | | | 1 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 0.556600948 | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.1 | 2.851005545 | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.1 | 2.851005545 | 56.16480924 | 5.616480924 | 5.6 | 19.6 | 1 | 19.6 | 1 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.1 | 2.851005545 | 0.912321774 | 0.091232177 | 0.091 | 0.28 | 1 | 0.28 | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.1 | 2.851005545 | 14.25502773 | 1.425502773 | 1.4 | 12.8 | 1 | 12.8 | 1 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.1 | 2.851005545 | 2.491778846 | 0.249177885 | 0.25 | 2.04 | 1 | 2.04 | 1 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.1 | 2.851005545 | 1.391290706 | 0.139129071 | 0.14 | 0.877 | 0 | 0 | 1 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.1 | 2.851005545 | 4.048427874 | 0.404842787 | 0.4 | 3.09 | 1 | 3.09 | 1 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.1 | 2.851005545 | 18.58855615 | 1.858855615 | 1.9 | 13 | 1 | 13 | 1 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.1 | 2.851005545 | 6.044131756 | 0.604413176 | 0.6 | 5.8 | 1 | 5.8 | 1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.1 | 2.851005545 | 5.502440702 | 0.55024407 | 0.55 | 5.315 | 1 | 5.315 | 1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | 2.851005545 | | | | | | | 1 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 2.851005545 | | | | | | | 1 |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 2.851005545 | | | | | | | 1 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 2.851005545 | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.1 | 0.814556299 | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.1 | 0.814556299 | 16.04675908 | 1.604675908 | 1.6 | 19.6 | 1 | 19.6 | 1 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.1 | 0.814556299 | 0.260658016 | 0.026065802 | 0.026 | 0.28 | 1 | 0.28 | 1 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.1 | 0.814556299 | 4.072781493 | 0.407278149 | 0.41 | 12.8 | 1 | 12.8 | 1 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.1 | 0.814556299 | 0.711922205 | 0.07119222 | 0.071 | 2.04 | 1 | 2.04 | 1 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.1 | 0.814556299 | 0.397503474 | 0.039750347 | 0.04 | 0.877 | 0 | 0 | 1 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.1 | 0.814556299 | 1.156669944 | 0.115666994 | 0.12 | 3.09 | 1 | 3.09 | 1 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.1 | 0.814556299 | 5.310907067 | 0.531090707 | 0.53 | 13 | 1 | 13 | 1 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.1 | 0.814556299 | 1.726859353 | 0.172685935 | 0.17 | 5.8 | 1 | 5.8 | 1 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.1 | 0.814556299 | 1.572093656 | 0.157209366 | 0.16 | 5.315 | 1 | 5.315 | 1 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | 0.814556299 | | | | | | | 1 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 0.814556299 | | | | | | | 1 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 0.814556299 | | | | | | | 1 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 0.814556299 | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.1 | 2.106696236 | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.1 | 2.106696236 | 41.50191585 | 4.150191585 | 4.2 | 19.6 | 1 | 19.6 | 1 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.1 | 2.106696236 | 0.674142795 | 0.06741428 | 0.067 | 0.28 | 1 | 0.28 | 1 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.1 | 2.106696236 | 10.53348118 | 1.053348118 | 1.1 | 12.8 | 1 | 12.8 | 1 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.1 | 2.106696236 | 1.84125251 | 0.184125251 | 0.18 | 2.04 | 1 | 2.04 | 1 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.1 | 2.106696236 | 1.028067763 | 0.102806776 | 0.1 | 0.877 | 0 | 0 | 1 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.1 | 2.106696236 | 2.991508655 | 0.299150866 | 0.3 | 3.09 | 1 | 3.09 | 1 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.1 | 2.106696236 | 13.73565946 | 1.373565946 | 1.4 | 13 | 1 | 13 | 1 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.1 | 2.106696236 | 4.46619602 | 0.446619602 | 0.45 | 5.8 | 1 | 5.8 | 1 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.1 | 2.106696236 | 4.065923735 | 0.406592374 | 0.41 | 5.315 | 1 | 5.315 | 1 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | 2.106696236 | | | | | | | 1 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 2.106696236 | | | | | | | 1 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 2.106696236 | | | | | | | 1 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 2.106696236 | | | | | | | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.1 | NA | 0 | 0 | 0 | 19.6 | 1 | 19.6 | 1 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.1 | NA | 0 | 0 | 0 | 0.28 | 1 | 0.28 | 1 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.1 | NA | 0 | 0 | 0 | 12.8 | 1 | 12.8 | 1 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.1 | NA | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 1 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.1 | NA | 0 | 0 | 0 | 0.877 | 0 | 0 | 1 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.1 | NA | 0 | 0 | 0 | 3.09 | 1 | 3.09 | 1 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.1 | NA | 0 | 0 | 0 | 13 | 1 | 13 | 1 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.1 | NA | 0 | 0 | 0 | 5.8 | 1 | 5.8 | 1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.1 | NA | 0 | 0 | 0 | 5.315 | 1 | 5.315 | 1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.1 | 4.349554586 | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.1 | 4.349554586 | 85.68622535 | 8.568622535 | 8.6 | 19.6 | 1 | 19.6 | 1 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.1 | 4.349554586 | 1.391857468 | 0.139185747 | 0.14 | 0.28 | 1 | 0.28 | 1 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.1 | 4.349554586 | 21.74777293 | 2.174777293 | 2.2 | 12.8 | 1 | 12.8 | 1 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.1 | 4.349554586 | 3.801510708 | 0.380151071 | 0.38 | 2.04 | 1 | 2.04 | 1 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.1 | 4.349554586 | 2.122582638 | 0.212258264 | 0.21 | 0.877 | 0 | 0 | 1 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.1 | 4.349554586 | 6.176367512 | 0.617636751 | 0.62 | 3.09 | 1 | 3.09 | 1 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.1 | 4.349554586 | 28.3590959 | 2.83590959 | 2.8 | 13 | 1 | 13 | 1 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.1 | 4.349554586 | 9.221055723 | 0.922105572 | 0.92 | 5.8 | 1 | 5.8 | 1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.1 | 4.349554586 | 8.394640351 | 0.839464035 | 0.84 | 5.315 | 1 | 5.315 | 1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | 4.349554586 | | | | | | | 1 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 4.349554586 | | | | | | | 1 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 4.349554586 | | | | | | | 1 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 4.349554586 | | | | | | | 1 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.1 | NA | 0 | 0 | 0 | 19.6 | 1 | 19.6 | 1 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.1 | NA | 0 | 0 | 0 | 0.28 | 1 | 0.28 | 1 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.1 | NA | 0 | 0 | 0 | 12.8 | 1 | 12.8 | 1 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.1 | NA | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 1 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.1 | NA | 0 | 0 | 0 | 0.877 | 0 | 0 | 1 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.1 | NA | 0 | 0 | 0 | 3.09 | 1 | 3.09 | 1 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.1 | NA | 0 | 0 | 0 | 13 | 1 | 13 | 1 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.1 | NA | 0 | 0 | 0 | 5.8 | 1 | 5.8 | 1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.1 | NA | 0 | 0 | 0 | 5.315 | 1 | 5.315 | 1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.1 | 0.999211784 | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.1 | 0.999211784 | 19.68447215 | 1.968447215 | 2 | 19.6 | 1 | 19.6 | 1 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.1 | 0.999211784 | 0.319747771 | 0.031974777 | 0.032 | 0.28 | 1 | 0.28 | 1 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.1 | 0.999211784 | 4.996058922 | 0.499605892 | 0.5 | 12.8 | 1 | 12.8 | 1 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.1 | 0.999211784 | 0.8733111 | 0.08733111 | 0.087 | 2.04 | 1 | 2.04 | 1 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.1 | 0.999211784 | 0.487615351 | 0.048761535 | 0.049 | 0.877 | 0 | 0 | 1 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.1 | 0.999211784 | 1.418880734 | 0.141888073 | 0.14 | 3.09 | 1 | 3.09 | 1 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.1 | 0.999211784 | 6.514860835 | 0.651486083 | 0.65 | 13 | 1 | 13 | 1 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.1 | 0.999211784 | 2.118328983 | 0.211832898 | 0.21 | 5.8 | 1 | 5.8 | 1 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.1 | 0.999211784 | 1.928478744 | 0.192847874 | 0.19 | 5.315 | 1 | 5.315 | 1 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | 0.999211784 | | | | | | | 1 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 0.999211784 | | | | | | | 1 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 0.999211784 | | | | | | | 1 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 0.999211784 | | | | | | | 1 |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.1 | 0.925056906 | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.1 | 0.925056906 | 18.22362104 | 1.822362104 | 1.8 | 19.6 | 1 | 19.6 | 1 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.1 | 0.925056906 | 0.29601821 | 0.029601821 | 0.03 | 0.28 | 1 | 0.28 | 1 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.1 | 0.925056906 | 4.625284529 | 0.462528453 | 0.46 | 12.8 | 1 | 12.8 | 1 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.1 | 0.925056906 | 0.808499736 | 0.080849974 | 0.081 | 2.04 | 1 | 2.04 | 1 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.1 | 0.925056906 | 0.45142777 | 0.045142777 | 0.045 | 0.877 | 0 | 0 | 1 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.1 | 0.925056906 | 1.313580806 | 0.131358081 | 0.13 | 3.09 | 1 | 3.09 | 1 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.1 | 0.925056906 | 6.031371026 | 0.603137103 | 0.6 | 13 | 1 | 13 | 1 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.1 | 0.925056906 | 1.96112064 | 0.196112064 | 0.2 | 5.8 | 1 | 5.8 | 1 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.1 | 0.925056906 | 1.785359828 | 0.178535983 | 0.18 | 5.315 | 1 | 5.315 | 1 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | 0.925056906 | | | | | | | 1 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 0.925056906 | | | | | | | 1 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 0.925056906 | | | | | | | 1 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 0.925056906 | | | | | | | 1 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.1 | NA | 0 | 0 | 0 | 19.6 | 1 | 19.6 | 1 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.1 | NA | 0 | 0 | 0 | 0.28 | 1 | 0.28 | 1 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.1 | NA | 0 | 0 | 0 | 12.8 | 1 | 12.8 | 1 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.1 | NA | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 1 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.1 | NA | 0 | 0 | 0 | 0.877 | 0 | 0 | 1 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.1 | NA | 0 | 0 | 0 | 3.09 | 1 | 3.09 | 1 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.1 | NA | 0 | 0 | 0 | 13 | 1 | 13 | 1 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.1 | NA | 0 | 0 | 0 | 5.8 | 1 | 5.8 | 1 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.1 | NA | 0 | 0 | 0 | 5.315 | 1 | 5.315 | 1 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.1 | 4.349554586 | 0 | 0 | 0 | 0.17 | 0 | 0 | 1 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.1 | 4.349554586 | 85.68622535 | 8.568622535 | 8.6 | 19.6 | 1 | 19.6 | 1 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.1 | 4.349554586 | 1.391857468 | 0.139185747 | 0.14 | 0.28 | 1 | 0.28 | 1 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.1 | 4.349554586 | 21.74777293 | 2.174777293 | 2.2 | 12.8 | 1 | 12.8 | 1 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.1 | 4.349554586 | 3.801510708 | 0.380151071 | 0.38 | 2.04 | 1 | 2.04 | 1 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.1 | 4.349554586 | 2.122582638 | 0.212258264 | 0.21 | 0.877 | 0 | 0 | 1 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.1 | 4.349554586 | 6.176367512 | 0.617636751 | 0.62 | 3.09 | 1 | 3.09 | 1 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.1 | 4.349554586 | 28.3590959 | 2.83590959 | 2.8 | 13 | 1 | 13 | 1 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.1 | 4.349554586 | 9.221055723 | 0.922105572 | 0.92 | 5.8 | 1 | 5.8 | 1 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.1 | 4.349554586 | 8.394640351 | 0.839464035 | 0.84 | 5.315 | 1 | 5.315 | 1 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | 4.349554586 | | | | | | | 1 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 4.349554586 | | | | | | | 1 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 4.349554586 | | | | | | | 1 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 4.349554586 | | | | | | | 1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 1.757348914 | 30.40213621 | 30.40213621 | 30 | 43 | 1 | 43 | 0.1 | 0.18115942 | 7.789855072 | 0.778985507 | 0.78 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 1.757348914 | 9.138214351 | 9.138214351 | 9.1 | 10.7 | 1 | 10.7 | 0.1 | 0.18115942 | 1.938405797 | 0.19384058 | 0.19 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 1.757348914 | 11.59850283 | 11.59850283 | 12 | 19.9 | 1 | 19.9 | 0.1 | 0.18115942 | 3.605072464 | 0.360507246 | 0.36 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 1.757348914 | 42.87931349 | 42.87931349 | 43 | 57.5 | 1 | 57.5 | 0.1 | 0.18115942 | 10.41666667 | 1.041666667 | 1 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 1.757348914 | 28.82052218 | 28.82052218 | 29 | 37.2 | 1 | 37.2 | 0.1 | 0.18115942 | 6.739130435 | 0.673913043 | 0.67 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 1.757348914 | 21.43965675 | 21.43965675 | 21 | 26.4 | 1 | 26.4 | 0.1 | 0.18115942 | 4.782608696 | 0.47826087 | 0.48 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 1.757348914 | 24.4271499 | 24.4271499 | 24 | 33.2 | 1 | 33.2 | 0.1 | 0.18115942 | 6.014492754 | 0.601449275 | 0.6 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.757348914 | 2.864478729 | 2.864478729 | 2.9 | 4.19 | 1 | 4.19 | 0.1 | 0.18115942 | 0.759057971 | 0.075905797 | 0.076 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 1.757348914 | 37.25579697 | 37.25579697 | 37 | 43.9 | 1 | 43.9 | 0.1 | 0.18115942 | 7.952898551 | 0.795289855 | 0.8 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 1.757348914 | 27.23890816 | 27.23890816 | 27 | 35.2 | 1 | 35.2 | 0.1 | 0.18115942 | 6.376811594 | 0.637681159 | 0.64 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 1.757348914 | 17.23959284 | 17.23959284 | 17 | 23.3 | 1 | 23.3 | 0.1 | 0.18115942 | 4.221014493 | 0.422101449 | 0.42 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 1.757348914 | 18.62789848 | 18.62789848 | 19 | 24.3 | 1 | 24.3 | 0.1 | 0.18115942 | 4.402173913 | 0.440217391 | 0.44 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 1.757348914 | 25.65729414 | 25.65729414 | 26 | 32.2 | 1 | 32.2 | 0.1 | 0.18115942 | 5.833333333 | 0.583333333 | 0.58 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 1.757348914 | 27.23890816 | 27.23890816 | 27 | 31.8 | 1 | 31.8 | 0.1 | 0.18115942 | 5.760869565 | 0.576086957 | 0.58 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1.757348914 | | | | | | | 0.1 | 0.18115942 | | | |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 1.757348914 | 16.72996166 | 16.72996166 | 17 | 23.7 | 1 | 23.7 | 0.1 | 0.18115942 | 4.293478261 | 0.429347826 | 0.43 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1.757348914 | 12.16085448 | 12.16085448 | 12 | 17.7 | 1 | 17.7 | 0.1 | 0.18115942 | 3.206521739 | 0.320652174 | 0.32 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1.757348914 | 7.187557057 | 7.187557057 | 7.2 | 10.1 | 1 | 10.1 | 0.1 | 0.18115942 | 1.829710145 | 0.182971014 | 0.18 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 1.757348914 | 7.064542633 | 7.064542633 | 7.1 | 9.06 | 1 | 9.06 | 0.1 | 0.18115942 | 1.641304348 | 0.164130435 | 0.16 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 1.757348914 | 47.09695089 | 47.09695089 | 47 | 59 | 1 | 59 | 0.1 | 0.18115942 | 10.6884058 | 1.06884058 | 1.1 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 1.757348914 | 13.56673361 | 13.56673361 | 14 | 10.1 | 1 | 10.1 | 0.1 | 0.18115942 | 1.829710145 | 0.182971014 | 0.18 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 1.757348914 | 10.06960928 | 10.06960928 | 10 | 12.8 | 1 | 12.8 | 0.1 | 0.18115942 | 2.31884058 | 0.231884058 | 0.23 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 1.757348914 | 19.33083805 | 19.33083805 | 19 | 21.8 | 1 | 21.8 | 0.1 | 0.18115942 | 3.949275362 | 0.394927536 | 0.39 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 1.757348914 | 10.05203579 | 10.05203579 | 10 | 12.8 | 1 | 12.8 | 0.1 | 0.18115942 | 2.31884058 | 0.231884058 | 0.23 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 1.757348914 | 17.92495892 | 17.92495892 | 18 | 18.3 | 1 | 18.3 | 0.1 | 0.18115942 | 3.315217391 | 0.331521739 | 0.33 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 1.757348914 | 49.90870915 | 49.90870915 | 50 | 49.2 | 1 | 49.2 | 0.1 | 0.18115942 | 8.913043478 | 0.891304348 | 0.89 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 1.757348914 | 22.3183312 | 22.3183312 | 22 | 22.4 | 1 | 22.4 | 0.1 | 0.18115942 | 4.057971014 | 0.405797101 | 0.41 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 1.757348914 | 29.87493153 | 29.87493153 | 30 | 42.3 | 1 | 42.3 | 0.1 | 0.18115942 | 7.663043478 | 0.766304348 | 0.77 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 1.757348914 | 37.60726675 | 37.60726675 | 38 | 44.4 | 1 | 44.4 | 0.1 | 0.18115942 | 8.043478261 | 0.804347826 | 0.8 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 1.757348914 | 11.19431258 | 11.19431258 | 11 | 13.9 | 1 | 13.9 | 0.1 | 0.18115942 | 2.518115942 | 0.251811594 | 0.25 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 1.757348914 | 20.03377762 | 20.03377762 | 20 | 26 | 1 | 26 | 0.1 | 0.18115942 | 4.710144928 | 0.471014493 | 0.47 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 1.757348914 | 22.3183312 | 22.3183312 | 22 | 30.2 | 1 | 30.2 | 0.1 | 0.18115942 | 5.471014493 | 0.547101449 | 0.55 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 1.757348914 | 13.79518897 | 13.79518897 | 14 | 14.9 | 1 | 14.9 | 0.1 | 0.18115942 | 2.699275362 | 0.269927536 | 0.27 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 1.757348914 | 29.34772686 | 29.34772686 | 29 | 40.4 | 1 | 40.4 | 0.1 | 0.18115942 | 7.31884058 | 0.731884058 | 0.73 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 1.757348914 | 13.97092386 | 13.97092386 | 14 | 17.7 | 1 | 17.7 | 0.1 | 0.18115942 | 3.206521739 | 0.320652174 | 0.32 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 1.757348914 | 32.33522001 | 32.33522001 | 32 | 47.6 | 1 | 47.6 | 0.1 | 0.18115942 | 8.623188406 | 0.862318841 | 0.86 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 1.757348914 | 33.38962936 | 33.38962936 | 33 | 39.45 | 1 | 39.45 | 0.1 | 0.18115942 | 7.14673913 | 0.714673913 | 0.71 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 1.757348914 | | | | | | | 0.1 | 0.18115942 | | | |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 1.757348914 | 29.52346175 | 29.52346175 | 30 | 41.1 | 1 | 41.1 | 0.1 | 0.18115942 | 7.445652174 | 0.744565217 | 0.74 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 1.757348914 | 19.85804272 | 19.85804272 | 20 | 29.3 | 1 | 29.3 | 0.1 | 0.18115942 | 5.307971014 | 0.530797101 | 0.53 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 1.757348914 | 41.82490414 | 41.82490414 | 42 | 55.7 | 1 | 55.7 | 0.1 | 0.18115942 | 10.09057971 | 1.009057971 | 1 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 1.757348914 | 45.33960197 | 45.33960197 | 45 | 51.5 | 1 | 51.5 | 0.1 | 0.18115942 | 9.329710145 | 0.932971014 | 0.93 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 1.757348914 | 50.26017893 | 50.26017893 | 50 | 51.7 | 1 | 51.7 | 0.1 | 0.18115942 | 9.365942029 | 0.936594203 | 0.94 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 1.757348914 | 7.169983568 | 7.169983568 | 7.2 | 12.7 | 1 | 12.7 | 0.1 | 0.18115942 | 2.300724638 | 0.230072464 | 0.23 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 1.757348914 | 61.50721198 | 61.50721198 | 62 | 183 | 1 | 183 | 0.1 | 0.18115942 | 33.15217391 | 3.315217391 | 3.3 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 1.757348914 | 34.09256892 | 34.09256892 | 34 | 43.7 | 1 | 43.7 | 0.1 | 0.18115942 | 7.916666667 | 0.791666667 | 0.79 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 1.757348914 | 9.946594851 | 9.946594851 | 9.9 | 16.1 | 1 | 16.1 | 0.1 | 0.18115942 | 2.916666667 | 0.291666667 | 0.29 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 1.757348914 | 13.93577689 | 13.93577689 | 14 | 25.4 | 1 | 25.4 | 0.1 | 0.18115942 | 4.601449275 | 0.460144928 | 0.46 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 1.757348914 | 53.95061165 | 53.95061165 | 54 | 29.6 | 1 | 29.6 | 0.1 | 0.18115942 | 5.362318841 | 0.536231884 | 0.54 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 1.757348914 | 34.79550849 | 34.79550849 | 35 | 42 | 1 | 42 | 0.1 | 0.18115942 | 7.608695652 | 0.760869565 | 0.76 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 1.757348914 | 18.97936827 | 18.97936827 | 19 | 35.5 | 1 | 35.5 | 0.1 | 0.18115942 | 6.43115942 | 0.643115942 | 0.64 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1.757348914 | 0 | 0 | 0 | 6.63 | 0 | 0 | 0.1 | 0.18115942 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 1.757348914 | 18.97936827 | 18.97936827 | 19 | 28.6 | 1 | 28.6 | 0.1 | 0.18115942 | 5.18115942 | 0.518115942 | 0.52 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 1.757348914 | 129.5166149 | 129.5166149 | 130 | 120 | 1 | 120 | 0.1 | 0.18115942 | 21.73913043 | 2.173913043 | 2.2 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 1.757348914 | | | | | | | 0.1 | 0.18115942 | | | |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 1.757348914 | 13.30313128 | 13.30313128 | 13 | 32.5 | 1 | 32.5 | 0.1 | 0.18115942 | 5.887681159 | 0.588768116 | 0.59 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.757348914 | 17.38018076 | 17.38018076 | 17 | 40.6 | 1 | 40.6 | 0.1 | 0.18115942 | 7.355072464 | 0.735507246 | 0.74 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 1.757348914 | 9.349096221 | 9.349096221 | 9.3 | 22.1 | 1 | 22.1 | 0.1 | 0.18115942 | 4.003623188 | 0.400362319 | 0.4 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 1.757348914 | 20.20951251 | 20.20951251 | 20 | 29.9 | 1 | 29.9 | 0.1 | 0.18115942 | 5.416666667 | 0.541666667 | 0.54 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 1.757348914 | 33.21389447 | 33.21389447 | 33 | 30 | 1 | 30 | 0.1 | 0.18115942 | 5.434782609 | 0.543478261 | 0.54 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 1.757348914 | 11.29975351 | 11.29975351 | 11 | 12.4 | 1 | 12.4 | 0.1 | 0.18115942 | 2.246376812 | 0.224637681 | 0.22 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 1.757348914 | 26.3602337 | 26.3602337 | 26 | 27.2 | 1 | 27.2 | 0.1 | 0.18115942 | 4.927536232 | 0.492753623 | 0.49 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 1.757348914 | 56.76236991 | 56.76236991 | 57 | 52.9 | 1 | 52.9 | 0.1 | 0.18115942 | 9.583333333 | 0.958333333 | 0.96 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 1.757348914 | 34.26830382 | 34.26830382 | 34 | 47.8 | 1 | 47.8 | 0.1 | 0.18115942 | 8.65942029 | 0.865942029 | 0.87 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 1.757348914 | 23.89994523 | 23.89994523 | 24 | 24.7 | 1 | 24.7 | 0.1 | 0.18115942 | 4.474637681 | 0.447463768 | 0.45 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 1.757348914 | 41.64916925 | 41.64916925 | 42 | 97.4 | 1 | 97.4 | 0.1 | 0.18115942 | 17.64492754 | 1.764492754 | 1.8 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 1.757348914 | 11.0010042 | 11.0010042 | 11 | 13 | 1 | 13 | 0.1 | 0.18115942 | 2.355072464 | 0.235507246 | 0.24 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 1.757348914 | 16.22033047 | 16.22033047 | 16 | 17.7 | 1 | 17.7 | 0.1 | 0.18115942 | 3.206521739 | 0.320652174 | 0.32 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 1.757348914 | 0 | 0 | 0 | 44 | 1 | 44 | 0.1 | 0.18115942 | 7.971014493 | 0.797101449 | 0.8 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1.757348914 | 8.171672448 | 8.171672448 | 8.2 | 7.94 | 1 | 7.94 | 0.1 | 0.18115942 | 1.438405797 | 0.14384058 | 0.14 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1.757348914 | 1.159850283 | 1.159850283 | 1.2 | 0.99 | 0 | 0 | 0.1 | 0.18115942 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1.757348914 | 4.410945773 | 4.410945773 | 4.4 | 3.62 | 1 | 3.62 | 0.1 | 0.18115942 | 0.655797101 | 0.06557971 | 0.066 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1.757348914 | 0 | 0 | 0 | 0.082 | 0 | 0 | 0.1 | 0.18115942 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1.757348914 | 11.87967866 | 11.87967866 | 12 | 11.3 | 1 | 11.3 | 0.1 | 0.18115942 | 2.047101449 | 0.204710145 | 0.2 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1.757348914 | 3.163228045 | 3.163228045 | 3.2 | 2.9 | 1 | 2.9 | 0.1 | 0.18115942 | 0.525362319 | 0.052536232 | 0.053 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 1.757348914 | 0 | 0 | 0 | 9.6 | 1 | 9.6 | 0.1 | 0.18115942 | 1.739130435 | 0.173913043 | 0.17 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 1.757348914 | 16.3433449 | 16.3433449 | 16 | 21.1 | 1 | 21.1 | 0.1 | 0.18115942 | 3.822463768 | 0.382246377 | 0.38 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1.757348914 | 3.338962936 | 3.338962936 | 3.3 | 3.05 | 1 | 3.05 | 0.1 | 0.18115942 | 0.552536232 | 0.055253623 | 0.055 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | 1.757348914 | | | | | | | 0.1 | 0.18115942 | | | |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1.757348914 | 4.569107175 | 4.569107175 | 4.6 | 7.38 | 1 | 7.38 | 0.1 | 0.18115942 | 1.336956522 | 0.133695652 | 0.13 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1.757348914 | 4.041902501 | 4.041902501 | 4 | 5.76 | 1 | 5.76 | 0.1 | 0.18115942 | 1.043478261 | 0.104347826 | 0.1 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1.757348914 | 0 | 0 | 0 | 1.19 | 1 | 1.19 | 0.1 | 0.18115942 | 0.21557971 | 0.021557971 | 0.022 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 1.757348914 | 23.89994523 | 23.89994523 | 24 | 54.5 | 1 | 54.5 | 0.1 | 0.18115942 | 9.873188406 | 0.987318841 | 0.99 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1.757348914 | 0 | 0 | 0 | 0.34 | 0 | 0 | 0.1 | 0.18115942 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1.757348914 | 0 | 0 | 0 | 0.59 | 1 | 0.59 | 0.1 | 0.18115942 | 0.106884058 | 0.010688406 | 0.011 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1.757348914 | 2.987493153 | 2.987493153 | 3 | 2.5 | 1 | 2.5 | 0.1 | 0.18115942 | 0.452898551 | 0.045289855 | 0.045 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1.757348914 | 2.284553588 | 2.284553588 | 2.3 | 1.6 | 1 | 1.6 | 0.1 | 0.18115942 | 0.289855072 | 0.028985507 | 0.029 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 1.757348914 | 47.00908344 | 47.00908344 | 47 | 49.65 | 1 | 49.65 | 0.1 | 0.18115942 | 8.994565217 | 0.899456522 | 0.9 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | 1.757348914 | | | | | | | 0.1 | 0.18115942 | | | |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 1.757348914 | 14.05879131 | 14.05879131 | 14 | 13.5 | 1 | 13.5 | 0.1 | 0.18115942 | 2.445652174 | 0.244565217 | 0.24 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1.757348914 | 3.092934088 | 3.092934088 | 3.1 | 3.4 | 0 | 0 | 0.1 | 0.18115942 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1.757348914 | 3.479550849 | 3.479550849 | 3.5 | 10.355 | 1 | 10.355 | 0.1 | 0.18115942 | 1.875905797 | 0.18759058 | 0.19 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | 1.757348914 | | | | | | | 0.1 | 0.18115942 | | | |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1.757348914 | 8.259539894 | 8.259539894 | 8.3 | 4.61 | 0 | 0 | 0.1 | 0.18115942 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 1.757348914 | 0 | 0 | 0 | 30.9 | 1 | 30.9 | 0.1 | 0.18115942 | 5.597826087 | 0.559782609 | 0.56 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 1.757348914 | 31.98375023 | 31.98375023 | 32 | 20.9 | 1 | 20.9 | 0.1 | 0.18115942 | 3.786231884 | 0.378623188 | 0.38 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 1.757348914 | 8.083805003 | 8.083805003 | 8.1 | 10.9 | 1 | 10.9 | 0.1 | 0.18115942 | 1.974637681 | 0.197463768 | 0.2 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 1.757348914 | 7.029395655 | 7.029395655 | 7 | 10.4 | 1 | 10.4 | 0.1 | 0.18115942 | 1.884057971 | 0.188405797 | 0.19 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 1.757348914 | 0 | 0 | 0 | 10.3 | 1 | 10.3 | 0.1 | 0.18115942 | 1.865942029 | 0.186594203 | 0.19 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 1.757348914 | 65.1976447 | 65.1976447 | 65 | 86.7 | 1 | 86.7 | 0.1 | 0.18115942 | 15.70652174 | 1.570652174 | 1.6 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.757348914 | 5.570796056 | 5.570796056 | 5.6 | 5.54 | 1 | 5.54 | 0.1 | 0.18115942 | 1.003623188 | 0.100362319 | 0.1 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 1.757348914 | 6.765793318 | 6.765793318 | 6.8 | 7.37 | 1 | 7.37 | 0.1 | 0.18115942 | 1.335144928 | 0.133514493 | 0.13 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 1.757348914 | 12.75835311 | 12.75835311 | 13 | 14 | 1 | 14 | 0.1 | 0.18115942 | 2.536231884 | 0.253623188 | 0.25 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 1.757348914 | 28.29331751 | 28.29331751 | 28 | 27.9 | 1 | 27.9 | 0.1 | 0.18115942 | 5.054347826 | 0.505434783 | 0.51 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 1.757348914 | 14.8847453 | 14.8847453 | 15 | 16.3 | 1 | 16.3 | 0.1 | 0.18115942 | 2.952898551 | 0.295289855 | 0.3 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 1.757348914 | 18.2764287 | 18.2764287 | 18 | 27.3 | 1 | 27.3 | 0.1 | 0.18115942 | 4.945652174 | 0.494565217 | 0.49 |
| | | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 43 | 1 | 43 | 0.1 | 0.16359682 | 7.034663279 | 0.703466328 | 0.7 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 10.7 | 1 | 10.7 | 0.1 | 0.16359682 | 1.750485979 | 0.175048598 | 0.18 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 19.9 | 1 | 19.9 | 0.1 | 0.16359682 | 3.255576727 | 0.325557673 | 0.33 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 57.5 | 1 | 57.5 | 0.1 | 0.16359682 | 9.406817176 | 0.940681718 | 0.94 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 37.2 | 1 | 37.2 | 0.1 | 0.16359682 | 6.085801721 | 0.608580172 | 0.61 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 26.4 | 1 | 26.4 | 0.1 | 0.16359682 | 4.31895606 | 0.431895606 | 0.43 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 33.2 | 1 | 33.2 | 0.1 | 0.16359682 | 5.431414439 | 0.543141444 | 0.54 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 4.19 | 1 | 4.19 | 0.1 | 0.16359682 | 0.685470678 | 0.068547068 | 0.069 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 43.9 | 1 | 43.9 | 0.1 | 0.16359682 | 7.181900418 | 0.718190042 | 0.72 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 35.2 | 1 | 35.2 | 0.1 | 0.16359682 | 5.75860808 | 0.575860808 | 0.58 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 23.3 | 1 | 23.3 | 0.1 | 0.16359682 | 3.811805916 | 0.381180592 | 0.38 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 24.3 | 1 | 24.3 | 0.1 | 0.16359682 | 3.975402737 | 0.397540274 | 0.4 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 32.2 | 1 | 32.2 | 0.1 | 0.16359682 | 5.267817618 | 0.526781762 | 0.53 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 31.8 | 1 | 31.8 | 0.1 | 0.16359682 | 5.20237889 | 0.520237889 | 0.52 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | | | | 0.1 | 0.16359682 | | | |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 23.7 | 1 | 23.7 | 0.1 | 0.16359682 | 3.877244645 | 0.387724464 | 0.39 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 17.7 | 1 | 17.7 | 0.1 | 0.16359682 | 2.895663722 | 0.289566372 | 0.29 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 10.1 | 1 | 10.1 | 0.1 | 0.16359682 | 1.652327887 | 0.165232789 | 0.17 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 9.06 | 1 | 9.06 | 0.1 | 0.16359682 | 1.482187193 | 0.148218719 | 0.15 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 59 | 1 | 59 | 0.1 | 0.16359682 | 9.652212406 | 0.965221241 | 0.97 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 10.1 | 1 | 10.1 | 0.1 | 0.16359682 | 1.652327887 | 0.165232789 | 0.17 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 12.8 | 1 | 12.8 | 0.1 | 0.16359682 | 2.094039302 | 0.20940393 | 0.21 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 21.8 | 1 | 21.8 | 0.1 | 0.16359682 | 3.566410686 | 0.356641069 | 0.36 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 12.8 | 1 | 12.8 | 0.1 | 0.16359682 | 2.094039302 | 0.20940393 | 0.21 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 18.3 | 1 | 18.3 | 0.1 | 0.16359682 | 2.993821814 | 0.299382181 | 0.3 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 49.2 | 1 | 49.2 | 0.1 | 0.16359682 | 8.048963566 | 0.804896357 | 0.8 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | /Field Duplic | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 22.4 | 1 | 22.4 | 0.1 | 0.16359682 | 3.664568778 | 0.366456878 | 0.37 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 42.3 | 1 | 42.3 | 0.1 | 0.16359682 | 6.920145505 | 0.69201455 | 0.69 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 44.4 | 1 | 44.4 | 0.1 | 0.16359682 | 7.263698828 | 0.726369883 | 0.73 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | /Field Duplic | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 13.9 | 1 | 13.9 | 0.1 | 0.16359682 | 2.273995804 | 0.22739958 | 0.23 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 26 | 1 | 26 | 0.1 | 0.16359682 | 4.253517332 | 0.425351733 | 0.43 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 30.2 | 1 | 30.2 | 0.1 | 0.16359682 | 4.940623978 | 0.494062398 | 0.49 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 14.9 | 1 | 14.9 | 0.1 | 0.16359682 | 2.437592625 | 0.243759262 | 0.24 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 40.4 | 1 | 40.4 | 0.1 | 0.16359682 | 6.609311546 | 0.660931155 | 0.66 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 17.7 | 1 | 17.7 | 0.1 | 0.16359682 | 2.895663722 | 0.289566372 | 0.29 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 47.6 | 1 | 47.6 | 0.1 | 0.16359682 | 7.787208653 | 0.778720865 | 0.78 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 39.45 | 1 | 39.45 | 0.1 | 0.16359682 | 6.453894567 | 0.645389457 | 0.65 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 0.1 | 0.16359682 | | | |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 41.1 | 1 | 41.1 | 0.1 | 0.16359682 | 6.72382932 | 0.672382932 | 0.67 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 29.3 | 1 | 29.3 | 0.1 | 0.16359682 | 4.793386839 | 0.479338684 | 0.48 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | /Field Duplic | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 55.7 | 1 | 55.7 | 0.1 | 0.16359682 | 9.112342899 | 0.91123429 | 0.91 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 51.5 | 1 | 51.5 | 0.1 | 0.16359682 | 8.425236253 | 0.842523625 | 0.84 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 51.7 | 1 | 51.7 | 0.1 | 0.16359682 | 8.457955617 | 0.845795562 | 0.85 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 12.7 | 1 | 12.7 | 0.1 | 0.16359682 | 2.07767962 | 0.207767962 | 0.21 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 183 | 1 | 183 | 0.1 | 0.16359682 | 29.93821814 | 2.993821814 | 3 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 43.7 | 1 | 43.7 | 0.1 | 0.16359682 | 7.149181054 | 0.714918105 | 0.71 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 16.1 | 1 | 16.1 | 0.1 | 0.16359682 | 2.633908809 | 0.263390881 | 0.26 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 25.4 | 1 | 25.4 | 0.1 | 0.16359682 | 4.155359239 | 0.415535924 | 0.42 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 29.6 | 1 | 29.6 | 0.1 | 0.16359682 | 4.842465885 | 0.484246589 | 0.48 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 42 | 1 | 42 | 0.1 | 0.16359682 | 6.871066459 | 0.687106646 | 0.69 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 35.5 | 1 | 35.5 | 0.1 | 0.16359682 | 5.807687126 | 0.580768713 | 0.58 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 6.63 | 0 | 0 | 0.1 | 0.16359682 | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 28.6 | 1 | 28.6 | 0.1 | 0.16359682 | 4.678869065 | 0.467886906 | 0.47 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 120 | 1 | 120 | 0.1 | 0.16359682 | 19.63161845 | 1.963161845 | 2 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | | | | 0.1 | 0.16359682 | | | |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 32.5 | 1 | 32.5 | 0.1 | 0.16359682 | 5.316896665 | 0.531689666 | 0.53 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 40.6 | 1 | 40.6 | 0.1 | 0.16359682 | 6.64203091 | 0.664203091 | 0.66 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 22.1 | 1 | 22.1 | 0.1 | 0.16359682 | 3.615489732 | 0.361548973 | 0.36 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 29.9 | 1 | 29.9 | 0.1 | 0.16359682 | 4.891544931 | 0.489154493 | 0.49 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 30 | 1 | 30 | 0.1 | 0.16359682 | 4.907904613 | 0.490790461 | 0.49 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 12.4 | 1 | 12.4 | 0.1 | 0.16359682 | 2.028600574 | 0.202860057 | 0.2 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 27.2 | 1 | 27.2 | 0.1 | 0.16359682 | 4.449833516 | 0.444983352 | 0.44 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 52.9 | 1 | 52.9 | 0.1 | 0.16359682 | 8.654271802 | 0.86542718 | 0.87 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 47.8 | 1 | 47.8 | 0.1 | 0.16359682 | 7.819928017 | 0.781992802 | 0.78 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 24.7 | 1 | 24.7 | 0.1 | 0.16359682 | 4.040841465 | 0.404084147 | 0.4 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 97.4 | 1 | 97.4 | 0.1 | 0.16359682 | 15.93433031 | 1.593433031 | 1.6 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 13 | 1 | 13 | 0.1 | 0.16359682 | 2.126758666 | 0.212675867 | 0.21 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 17.7 | 1 | 17.7 | 0.1 | 0.16359682 | 2.895663722 | 0.289566372 | 0.29 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 44 | 1 | 44 | 0.1 | 0.16359682 | 7.1982601 | 0.71982601 | 0.72 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 7.94 | 1 | 7.94 | 0.1 | 0.16359682 | 1.298958754 | 0.129895875 | 0.13 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 0.99 | 0 | 0 | 0.1 | 0.16359682 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 3.62 | 1 | 3.62 | 0.1 | 0.16359682 | 0.59222049 | 0.059222049 | 0.059 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 0.082 | 0 | 0 | 0.1 | 0.16359682 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 11.3 | 1 | 11.3 | 0.1 | 0.16359682 | 1.848644071 | 0.184864407 | 0.18 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 2.9 | 1 | 2.9 | 0.1 | 0.16359682 | 0.474430779 | 0.047443078 | 0.047 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 9.6 | 1 | 9.6 | 0.1 | 0.16359682 | 1.570529476 | 0.157052948 | 0.16 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 21.1 | 1 | 21.1 | 0.1 | 0.16359682 | 3.451892911 | 0.345189291 | 0.35 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 3.05 | 1 | 3.05 | 0.1 | 0.16359682 | 0.498970302 | 0.04989703 | 0.05 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 0.1 | 0.16359682 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 7.38 | 1 | 7.38 | 0.1 | 0.16359682 | 1.207344535 | 0.120734453 | 0.12 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 5.76 | 1 | 5.76 | 0.1 | 0.16359682 | 0.942317686 | 0.094231769 | 0.094 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 1.19 | 1 | 1.19 | 0.1 | 0.16359682 | 0.194680216 | 0.019468022 | 0.019 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 54.5 | 1 | 54.5 | 0.1 | 0.16359682 | 8.916026714 | 0.891602671 | 0.89 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 0.34 | 0 | 0 | 0.1 | 0.16359682 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 0.59 | 1 | 0.59 | 0.1 | 0.16359682 | 0.096522124 | 0.009652212 | 0.0097 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 2.5 | 1 | 2.5 | 0.1 | 0.16359682 | 0.408992051 | 0.040899205 | 0.041 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 1.6 | 1 | 1.6 | 0.1 | 0.16359682 | 0.261754913 | 0.026175491 | 0.026 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 49.65 | 1 | 49.65 | 0.1 | 0.16359682 | 8.122582135 | 0.812258214 | 0.81 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 0.1 | 0.16359682 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 13.5 | 1 | 13.5 | 0.1 | 0.16359682 | 2.208557076 | 0.220855708 | 0.22 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 3.4 | 0 | 0 | 0.1 | 0.16359682 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 10.355 | 1 | 10.355 | 0.1 | 0.16359682 | 1.694045076 | 0.169404508 | 0.17 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 0.1 | 0.16359682 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 4.61 | 0 | 0 | 0.1 | 0.16359682 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 30.9 | 1 | 30.9 | 0.1 | 0.16359682 | 5.055141752 | 0.505514175 | 0.51 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 20.9 | 1 | 20.9 | 0.1 | 0.16359682 | 3.419173547 | 0.341917355 | 0.34 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 10.9 | 1 | 10.9 | 0.1 | 0.16359682 | 1.783205343 | 0.178320534 | 0.18 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 10.4 | 1 | 10.4 | 0.1 | 0.16359682 | 1.701406933 | 0.170140693 | 0.17 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 10.3 | 1 | 10.3 | 0.1 | 0.16359682 | 1.685047251 | 0.168504725 | 0.17 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 86.7 | 1 | 86.7 | 0.1 | 0.16359682 | 14.18384433 | 1.418384433 | 1.4 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 5.54 | 1 | 5.54 | 0.1 | 0.16359682 | 0.906326385 | 0.090632639 | 0.091 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 7.37 | 1 | 7.37 | 0.1 | 0.16359682 | 1.205708567 | 0.120570857 | 0.12 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 14 | 1 | 14 | 0.1 | 0.16359682 | 2.290355486 | 0.229035549 | 0.23 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 27.9 | 1 | 27.9 | 0.1 | 0.16359682 | 4.56435129 | 0.456435129 | 0.46 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 16.3 | 1 | 16.3 | 0.1 | 0.16359682 | 2.666628173 | 0.266662817 | 0.27 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 27.3 | 1 | 27.3 | 0.1 | 0.16359682 | 4.466193198 | 0.44661932 | 0.45 |
| | | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.055891729 | 0.966926917 | 0.966926917 | 0.97 | 43 | 1 | 43 | 0.1 | 0.046207519 | 1.986923308 | 0.198692331 | 0.2 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.055891729 | 0.290636992 | 0.290636992 | 0.29 | 10.7 | 1 | 10.7 | 0.1 | 0.046207519 | 0.494420451 | 0.049442045 | 0.049 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.055891729 | 0.368885414 | 0.368885414 | 0.37 | 19.9 | 1 | 19.9 | 0.1 | 0.046207519 | 0.919529624 | 0.091952962 | 0.092 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.055891729 | 1.363758195 | 1.363758195 | 1.4 | 57.5 | 1 | 57.5 | 0.1 | 0.046207519 | 2.656932331 | 0.265693233 | 0.27 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.055891729 | 0.916624361 | 0.916624361 | 0.92 | 37.2 | 1 | 37.2 | 0.1 | 0.046207519 | 1.718919699 | 0.17189197 | 0.17 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.055891729 | 0.681879098 | 0.681879098 | 0.68 | 26.4 | 1 | 26.4 | 0.1 | 0.046207519 | 1.219878496 | 0.12198785 | 0.12 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.055891729 | 0.776895038 | 0.776895038 | 0.78 | 33.2 | 1 | 33.2 | 0.1 | 0.046207519 | 1.534089624 | 0.153408962 | 0.15 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.055891729 | 0.091103519 | 0.091103519 | 0.091 | 4.19 | 1 | 4.19 | 0.1 | 0.046207519 | 0.193609504 | 0.01936095 | 0.019 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.055891729 | 1.184904662 | 1.184904662 | 1.2 | 43.9 | 1 | 43.9 | 0.1 | 0.046207519 | 2.028510075 | 0.202851008 | 0.2 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.055891729 | 0.866321805 | 0.866321805 | 0.87 | 35.2 | 1 | 35.2 | 0.1 | 0.046207519 | 1.626504662 | 0.162650466 | 0.16 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.055891729 | 0.548297865 | 0.548297865 | 0.55 | 23.3 | 1 | 23.3 | 0.1 | 0.046207519 | 1.076635188 | 0.107663519 | 0.11 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.055891729 | 0.592452331 | 0.592452331 | 0.59 | 24.3 | 1 | 24.3 | 0.1 | 0.046207519 | 1.122842707 | 0.112284271 | 0.11 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.055891729 | 0.816019248 | 0.816019248 | 0.82 | 32.2 | 1 | 32.2 | 0.1 | 0.046207519 | 1.487882105 | 0.148788211 | 0.15 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.055891729 | 0.866321805 | 0.866321805 | 0.87 | 31.8 | 1 | 31.8 | 0.1 | 0.046207519 | 1.469399098 | 0.14693991 | 0.15 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.055891729 | | | | | | | 0.1 | 0.046207519 | | | |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.055891729 | 0.532089263 | 0.532089263 | 0.53 | 23.7 | 1 | 23.7 | 0.1 | 0.046207519 | 1.095118195 | 0.10951182 | 0.11 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.055891729 | 0.386770767 | 0.386770767 | 0.39 | 17.7 | 1 | 17.7 | 0.1 | 0.046207519 | 0.817873083 | 0.081787308 | 0.082 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.055891729 | 0.228597173 | 0.228597173 | 0.23 | 10.1 | 1 | 10.1 | 0.1 | 0.046207519 | 0.46669594 | 0.046669594 | 0.047 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.055891729 | 0.224684752 | 0.224684752 | 0.22 | 9.06 | 1 | 9.06 | 0.1 | 0.046207519 | 0.41864012 | 0.041864012 | 0.042 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.055891729 | 1.497898346 | 1.497898346 | 1.5 | 59 | 1 | 59 | 0.1 | 0.046207519 | 2.726243609 | 0.272624361 | 0.27 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.055891729 | 0.43148415 | 0.43148415 | 0.43 | 10.1 | 1 | 10.1 | 0.1 | 0.046207519 | 0.46669594 | 0.046669594 | 0.047 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.055891729 | 0.320259609 | 0.320259609 | 0.32 | 12.8 | 1 | 12.8 | 0.1 | 0.046207519 | 0.591456241 | 0.059145624 | 0.059 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.055891729 | 0.614809023 | 0.614809023 | 0.61 | 21.8 | 1 | 21.8 | 0.1 | 0.046207519 | 1.00732391 | 0.100732391 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.055891729 | 0.319700692 | 0.319700692 | 0.32 | 12.8 | 1 | 12.8 | 0.1 | 0.046207519 | 0.591456241 | 0.059145624 | 0.059 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.055891729 | 0.570095639 | 0.570095639 | 0.57 | 18.3 | 1 | 18.3 | 0.1 | 0.046207519 | 0.845597594 | 0.084559759 | 0.085 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.055891729 | 1.587325113 | 1.587325113 | 1.6 | 49.2 | 1 | 49.2 | 0.1 | 0.046207519 | 2.273409925 | 0.227340992 | 0.23 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0.055891729 | 0.709824962 | 0.709824962 | 0.71 | 22.4 | 1 | 22.4 | 0.1 | 0.046207519 | 1.035048421 | 0.103504842 | 0.1 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.055891729 | 0.950159398 | 0.950159398 | 0.95 | 42.3 | 1 | 42.3 | 0.1 | 0.046207519 | 1.954578045 | 0.195457805 | 0.2 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.055891729 | 1.196083008 | 1.196083008 | 1.2 | 44.4 | 1 | 44.4 | 0.1 | 0.046207519 | 2.051613835 | 0.205161383 | 0.21 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.055891729 | 0.356030316 | 0.356030316 | 0.36 | 13.9 | 1 | 13.9 | 0.1 | 0.046207519 | 0.642284511 | 0.064228451 | 0.064 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.055891729 | 0.637165714 | 0.637165714 | 0.64 | 26 | 1 | 26 | 0.1 | 0.046207519 | 1.201395489 | 0.120139549 | 0.12 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.055891729 | 0.709824962 | 0.709824962 | 0.71 | 30.2 | 1 | 30.2 | 0.1 | 0.046207519 | 1.395467068 | 0.139546707 | 0.14 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.055891729 | 0.438750075 | 0.438750075 | 0.44 | 14.9 | 1 | 14.9 | 0.1 | 0.046207519 | 0.68849203 | 0.068849203 | 0.069 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.055891729 | 0.93339188 | 0.93339188 | 0.93 | 40.4 | 1 | 40.4 | 0.1 | 0.046207519 | 1.866783759 | 0.186678376 | 0.19 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.055891729 | 0.444339248 | 0.444339248 | 0.44 | 17.7 | 1 | 17.7 | 0.1 | 0.046207519 | 0.817873083 | 0.081787308 | 0.082 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.055891729 | 1.02840782 | 1.02840782 | 1 | 47.6 | 1 | 47.6 | 0.1 | 0.046207519 | 2.199477895 | 0.219947789 | 0.22 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.055891729 | 1.061942857 | 1.061942857 | 1.1 | 39.45 | 1 | 39.45 | 0.1 | 0.046207519 | 1.822886617 | 0.182288662 | 0.18 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0.055891729 | | | | | | | 0.1 | 0.046207519 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.055891729 | 0.938981053 | 0.938981053 | 0.94 | 41.1 | 1 | 41.1 | 0.1 | 0.046207519 | 1.899129023 | 0.189912902 | 0.19 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.055891729 | 0.631576541 | 0.631576541 | 0.63 | 29.3 | 1 | 29.3 | 0.1 | 0.046207519 | 1.353880301 | 0.13538803 | 0.14 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | /Field Duplic | 3/12/2009 | SO | 41 | 0.055891729 | 1.330223158 | 1.330223158 | 1.3 | 55.7 | 1 | 55.7 | 0.1 | 0.046207519 | 2.573758797 | 0.25737588 | 0.26 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.055891729 | 1.442006617 | 1.442006617 | 1.4 | 51.5 | 1 | 51.5 | 0.1 | 0.046207519 | 2.379687218 | 0.237968722 | 0.24 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.055891729 | 1.598503459 | 1.598503459 | 1.6 | 51.7 | 1 | 51.7 | 0.1 | 0.046207519 | 2.388928722 | 0.238892872 | 0.24 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.055891729 | 0.228038256 | 0.228038256 | 0.23 | 12.7 | 1 | 12.7 | 0.1 | 0.046207519 | 0.586835489 | 0.058683549 | 0.059 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.055891729 | 1.956210526 | 1.956210526 | 2 | 183 | 1 | 183 | 0.1 | 0.046207519 | 8.45597594 | 0.845597594 | 0.85 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.055891729 | 1.084299549 | 1.084299549 | 1.1 | 43.7 | 1 | 43.7 | 0.1 | 0.046207519 | 2.019268571 | 0.201926857 | 0.2 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.055891729 | 0.316347188 | 0.316347188 | 0.32 | 16.1 | 1 | 16.1 | 0.1 | 0.046207519 | 0.743941053 | 0.074394105 | 0.074 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.055891729 | 0.443221414 | 0.443221414 | 0.44 | 25.4 | 1 | 25.4 | 0.1 | 0.046207519 | 1.173670977 | 0.117367098 | 0.12 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.055891729 | 1.71587609 | 1.71587609 | 1.7 | 29.6 | 1 | 29.6 | 0.1 | 0.046207519 | 1.367742556 | 0.136774256 | 0.14 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.055891729 | 1.106656241 | 1.106656241 | 1.1 | 42 | 1 | 42 | 0.1 | 0.046207519 | 1.940715789 | 0.194071579 | 0.19 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.055891729 | 0.603630677 | 0.603630677 | 0.6 | 35.5 | 1 | 35.5 | 0.1 | 0.046207519 | 1.640366917 | 0.164036692 | 0.16 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.055891729 | 0 | 0 | 0 | 6.63 | 0 | 0 | 0.1 | 0.046207519 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.055891729 | 0.603630677 | 0.603630677 | 0.6 | 28.6 | 1 | 28.6 | 0.1 | 0.046207519 | 1.321535038 | 0.132153504 | 0.13 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.055891729 | 4.119220451 | 4.119220451 | 4.1 | 120 | 1 | 120 | 0.1 | 0.046207519 | 5.544902256 | 0.554490226 | 0.55 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.055891729 | | | | | | | 0.1 | 0.046207519 | | | |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.055891729 | 0.423100391 | 0.423100391 | 0.42 | 32.5 | 1 | 32.5 | 0.1 | 0.046207519 | 1.501744361 | 0.150174436 | 0.15 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.055891729 | 0.552769203 | 0.552769203 | 0.55 | 40.6 | 1 | 40.6 | 0.1 | 0.046207519 | 1.876025263 | 0.187602526 | 0.19 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.055891729 | 0.297344 | 0.297344 | 0.3 | 22.1 | 1 | 22.1 | 0.1 | 0.046207519 | 1.021186165 | 0.102118617 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.055891729 | 0.642754887 | 0.642754887 | 0.64 | 29.9 | 1 | 29.9 | 0.1 | 0.046207519 | 1.381604812 | 0.138160481 | 0.14 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.055891729 | 1.056353684 | 1.056353684 | 1.1 | 30 | 1 | 30 | 0.1 | 0.046207519 | 1.386225564 | 0.138622556 | 0.14 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.055891729 | 0.35938382 | 0.35938382 | 0.36 | 12.4 | 1 | 12.4 | 0.1 | 0.046207519 | 0.572973233 | 0.057297323 | 0.057 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.055891729 | 0.83837594 | 0.83837594 | 0.84 | 27.2 | 1 | 27.2 | 0.1 | 0.046207519 | 1.256844511 | 0.125684451 | 0.13 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.055891729 | 1.805302857 | 1.805302857 | 1.8 | 52.9 | 1 | 52.9 | 0.1 | 0.046207519 | 2.444377744 | 0.244437774 | 0.24 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.055891729 | 1.089888722 | 1.089888722 | 1.1 | 47.8 | 1 | 47.8 | 0.1 | 0.046207519 | 2.208719398 | 0.22087194 | 0.22 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.055891729 | 0.760127519 | 0.760127519 | 0.76 | 24.7 | 1 | 24.7 | 0.1 | 0.046207519 | 1.141325714 | 0.114132571 | 0.11 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.055891729 | 1.324633985 | 1.324633985 | 1.3 | 97.4 | 1 | 97.4 | 0.1 | 0.046207519 | 4.500612331 | 0.450061233 | 0.45 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.055891729 | 0.349882226 | 0.349882226 | 0.35 | 13 | 1 | 13 | 0.1 | 0.046207519 | 0.600697744 | 0.060069774 | 0.06 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.055891729 | 0.515880662 | 0.515880662 | 0.52 | 17.7 | 1 | 17.7 | 0.1 | 0.046207519 | 0.817873083 | 0.081787308 | 0.082 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.055891729 | 0 | 0 | 0 | 44 | 1 | 44 | 0.1 | 0.046207519 | 2.033130827 | 0.203313083 | 0.2 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.055891729 | 0.259896541 | 0.259896541 | 0.26 | 7.94 | 1 | 7.94 | 0.1 | 0.046207519 | 0.366887699 | 0.03668877 | 0.037 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.055891729 | 0.036888541 | 0.036888541 | 0.037 | 0.99 | 0 | 0 | 0.1 | 0.046207519 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.055891729 | 0.140288241 | 0.140288241 | 0.14 | 3.62 | 1 | 3.62 | 0.1 | 0.046207519 | 0.167271218 | 0.016727122 | 0.017 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.055891729 | 0 | 0 | 0 | 0.082 | 0 | 0 | 0.1 | 0.046207519 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.055891729 | 0.37782809 | 0.37782809 | 0.38 | 11.3 | 1 | 11.3 | 0.1 | 0.046207519 | 0.522144962 | 0.052214496 | 0.052 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.055891729 | 0.100605113 | 0.100605113 | 0.1 | 2.9 | 1 | 2.9 | 0.1 | 0.046207519 | 0.134001805 | 0.01340018 | 0.013 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.055891729 | 0 | 0 | 0 | 9.6 | 1 | 9.6 | 0.1 | 0.046207519 | 0.44359218 | 0.044359218 | 0.044 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.055891729 | 0.519793083 | 0.519793083 | 0.52 | 21.1 | 1 | 21.1 | 0.1 | 0.046207519 | 0.974978647 | 0.097497865 | 0.097 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.055891729 | 0.106194286 | 0.106194286 | 0.11 | 3.05 | 1 | 3.05 | 0.1 | 0.046207519 | 0.140932932 | 0.014093293 | 0.014 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | 0.055891729 | | | | | | | 0.1 | 0.046207519 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.055891729 | 0.145318496 | 0.145318496 | 0.15 | 7.38 | 1 | 7.38 | 0.1 | 0.046207519 | 0.341011489 | 0.034101149 | 0.034 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.055891729 | 0.128550977 | 0.128550977 | 0.13 | 5.76 | 1 | 5.76 | 0.1 | 0.046207519 | 0.266155308 | 0.026615531 | 0.027 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.055891729 | 0 | 0 | 0 | 1.19 | 1 | 1.19 | 0.1 | 0.046207519 | 0.054986947 | 0.005498695 | 0.0055 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.055891729 | 0.760127519 | 0.760127519 | 0.76 | 54.5 | 1 | 54.5 | 0.1 | 0.046207519 | 2.518309774 | 0.251830977 | 0.25 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.055891729 | 0 | 0 | 0 | 0.34 | 0 | 0 | 0.1 | 0.046207519 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.055891729 | 0 | 0 | 0 | 0.59 | 1 | 0.59 | 0.1 | 0.046207519 | 0.027262436 | 0.002726244 | 0.0027 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.055891729 | 0.09501594 | 0.09501594 | 0.095 | 2.5 | 1 | 2.5 | 0.1 | 0.046207519 | 0.115518797 | 0.01155188 | 0.012 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.055891729 | 0.072659248 | 0.072659248 | 0.073 | 1.6 | 1 | 1.6 | 0.1 | 0.046207519 | 0.07393203 | 0.007393203 | 0.0074 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.055891729 | 1.495103759 | 1.495103759 | 1.5 | 49.65 | 1 | 49.65 | 0.1 | 0.046207519 | 2.294203308 | 0.229420331 | 0.23 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | 0.055891729 | | | | | | | 0.1 | 0.046207519 | | | |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.055891729 | 0.447133835 | 0.447133835 | 0.45 | 13.5 | 1 | 13.5 | 0.1 | 0.046207519 | 0.623801504 | 0.06238015 | 0.062 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.055891729 | 0.098369444 | 0.098369444 | 0.098 | 3.4 | 0 | 0 | 0.1 | 0.046207519 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.055891729 | 0.110665624 | 0.110665624 | 0.11 | 10.355 | 1 | 10.355 | 0.1 | 0.046207519 | 0.478478857 | 0.047847886 | 0.048 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | 0.055891729 | | | | | | | 0.1 | 0.046207519 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.055891729 | 0.262691128 | 0.262691128 | 0.26 | 4.61 | 0 | 0 | 0.1 | 0.046207519 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.055891729 | 0 | 0 | 0 | 30.9 | 1 | 30.9 | 0.1 | 0.046207519 | 1.427812331 | 0.142781233 | 0.14 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.055891729 | 1.017229474 | 1.017229474 | 1 | 20.9 | 1 | 20.9 | 0.1 | 0.046207519 | 0.965737143 | 0.096573714 | 0.097 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.055891729 | 0.257101955 | 0.257101955 | 0.26 | 10.9 | 1 | 10.9 | 0.1 | 0.046207519 | 0.503661955 | 0.050366195 | 0.05 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.055891729 | 0.223566917 | 0.223566917 | 0.22 | 10.4 | 1 | 10.4 | 0.1 | 0.046207519 | 0.480558195 | 0.04805582 | 0.048 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.055891729 | 0 | 0 | 0 | 10.3 | 1 | 10.3 | 0.1 | 0.046207519 | 0.475937444 | 0.047593744 | 0.048 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.055891729 | 2.073583158 | 2.073583158 | 2.1 | 86.7 | 1 | 86.7 | 0.1 | 0.046207519 | 4.00619188 | 0.400619188 | 0.4 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.055891729 | 0.177176782 | 0.177176782 | 0.18 | 5.54 | 1 | 5.54 | 0.1 | 0.046207519 | 0.255989654 | 0.025598965 | 0.026 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.055891729 | 0.215183158 | 0.215183158 | 0.22 | 7.37 | 1 | 7.37 | 0.1 | 0.046207519 | 0.340549414 | 0.034054941 | 0.034 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.055891729 | 0.405773955 | 0.405773955 | 0.41 | 14 | 1 | 14 | 0.1 | 0.046207519 | 0.646905263 | 0.064690526 | 0.065 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.055891729 | 0.899856842 | 0.899856842 | 0.9 | 27.9 | 1 | 27.9 | 0.1 | 0.046207519 | 1.289189774 | 0.128918977 | 0.13 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.055891729 | 0.473402947 | 0.473402947 | 0.47 | 16.3 | 1 | 16.3 | 0.1 | 0.046207519 | 0.753182556 | 0.075318256 | 0.075 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.055891729 | 0.581273985 | 0.581273985 | 0.58 | 27.3 | 1 | 27.3 | 0.1 | 0.046207519 | 1.261465263 | 0.126146526 | 0.13 |
| | | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | 0.284968232 | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 114 | 1 | 114 | 0.1 | 0.284968232 | 32.4863784 | 3.24863784 | 3.2 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.65 | 1 | 0.65 | 0.1 | 0.284968232 | 0.185229351 | 0.018522935 | 0.019 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 16.5 | 1 | 16.5 | 0.1 | 0.284968232 | 4.701975821 | 0.470197582 | 0.47 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2.08 | 1 | 2.08 | 0.1 | 0.284968232 | 0.592733922 | 0.059273392 | 0.059 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | 0.284968232 | 0.39325616 | 0.039325616 | 0.039 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 3.58 | 1 | 3.58 | 0.1 | 0.284968232 | 1.020186269 | 0.102018627 | 0.1 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 18.4 | 1 | 18.4 | 0.1 | 0.284968232 | 5.24341546 | 0.524341546 | 0.52 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 10.6 | 1 | 10.6 | 0.1 | 0.284968232 | 3.020663254 | 0.302066325 | 0.3 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 9.21 | 1 | 9.21 | 0.1 | 0.284968232 | 2.624557413 | 0.262455741 | 0.26 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | 0.284968232 | | | |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | 0.284968232 | | | |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | 0.284968232 | | | |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | 0.284968232 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.292467443 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | 0.954896821 | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 2.292467443 | 44.93236188 | 44.93236188 | 45 | 114 | 1 | 114 | 0.1 | 0.954896821 | 108.8582376 | 10.88582376 | 11 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2.292467443 | 0.641890884 | 0.641890884 | 0.64 | 0.65 | 1 | 0.65 | 0.1 | 0.954896821 | 0.620682934 | 0.062068293 | 0.062 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 2.292467443 | 29.34358327 | 29.34358327 | 29 | 16.5 | 1 | 16.5 | 0.1 | 0.954896821 | 15.75579754 | 1.575579754 | 1.6 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2.292467443 | 4.676633583 | 4.676633583 | 4.7 | 2.08 | 1 | 2.08 | 0.1 | 0.954896821 | 1.986185387 | 0.198618539 | 0.2 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.292467443 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | 0.954896821 | 1.317757613 | 0.131775761 | 0.13 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 2.292467443 | 7.083724398 | 7.083724398 | 7.1 | 3.58 | 1 | 3.58 | 0.1 | 0.954896821 | 3.418530619 | 0.341853062 | 0.34 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 2.292467443 | 29.80207676 | 29.80207676 | 30 | 18.4 | 1 | 18.4 | 0.1 | 0.954896821 | 17.5701015 | 1.75701015 | 1.8 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.292467443 | 13.29631117 | 13.29631117 | 13 | 10.6 | 1 | 10.6 | 0.1 | 0.954896821 | 10.1219063 | 1.01219063 | 1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.292467443 | 12.18446446 | 12.18446446 | 12 | 9.21 | 1 | 9.21 | 0.1 | 0.954896821 | 8.79459972 | 0.879459972 | 0.88 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 2.292467443 | | | | | | | 0.1 | 0.954896821 | | | |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 2.292467443 | | | | | | | 0.1 | 0.954896821 | | | |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 2.292467443 | | | | | | | 0.1 | 0.954896821 | | | |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2.292467443 | | | | | | | 0.1 | 0.954896821 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.724844942 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.724844942 | 14.20696086 | 14.20696086 | 14 | 114 | 1 | 114 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.724844942 | 0.202956584 | 0.202956584 | 0.2 | 0.65 | 1 | 0.65 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.724844942 | 9.278015257 | 9.278015257 | 9.3 | 16.5 | 1 | 16.5 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.724844942 | 1.478683682 | 1.478683682 | 1.5 | 2.08 | 1 | 2.08 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.724844942 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.724844942 | 2.239770871 | 2.239770871 | 2.2 | 3.58 | 1 | 3.58 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.724844942 | 9.422984245 | 9.422984245 | 9.4 | 18.4 | 1 | 18.4 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.724844942 | 4.204100663 | 4.204100663 | 4.2 | 10.6 | 1 | 10.6 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.724844942 | 3.852550866 | 3.852550866 | 3.9 | 9.21 | 1 | 9.21 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0.724844942 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.724844942 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.724844942 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.724844942 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | 0.444832071 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 114 | 1 | 114 | 0.1 | 0.444832071 | 50.7108561 | 5.07108561 | 5.1 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.65 | 1 | 0.65 | 0.1 | 0.444832071 | 0.289140846 | 0.028914085 | 0.029 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 16.5 | 1 | 16.5 | 0.1 | 0.444832071 | 7.339729172 | 0.733972917 | 0.73 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2.08 | 1 | 2.08 | 0.1 | 0.444832071 | 0.925250708 | 0.092525071 | 0.093 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | 0.444832071 | 0.613868258 | 0.061386826 | 0.061 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 3.58 | 1 | 3.58 | 0.1 | 0.444832071 | 1.592498814 | 0.159249881 | 0.16 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 18.4 | 1 | 18.4 | 0.1 | 0.444832071 | 8.184910107 | 0.818491011 | 0.82 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 10.6 | 1 | 10.6 | 0.1 | 0.444832071 | 4.715219953 | 0.471521995 | 0.47 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 9.21 | 1 | 9.21 | 0.1 | 0.444832071 | 4.096903374 | 0.409690337 | 0.41 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | 0.444832071 | | | |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | 0.444832071 | | | |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | 0.444832071 | | | |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | 0.444832071 | | | |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 8.151031584 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 8.151031584 | 159.760219 | 159.760219 | 160 | 114 | 1 | 114 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 8.151031584 | 2.282288843 | 2.282288843 | 2.3 | 0.65 | 1 | 0.65 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 8.151031584 | 104.3332043 | 104.3332043 | 100 | 16.5 | 1 | 16.5 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 8.151031584 | 16.62810443 | 16.62810443 | 17 | 2.08 | 1 | 2.08 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 8.151031584 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 8.151031584 | 25.18668759 | 25.18668759 | 25 | 3.58 | 1 | 3.58 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 8.151031584 | 105.9634106 | 105.9634106 | 110 | 18.4 | 1 | 18.4 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 8.151031584 | 47.27598319 | 47.27598319 | 47 | 10.6 | 1 | 10.6 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 8.151031584 | 43.32273287 | 43.32273287 | 43 | 9.21 | 1 | 9.21 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 114 | 1 | 114 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.65 | 1 | 0.65 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 16.5 | 1 | 16.5 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2.08 | 1 | 2.08 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 3.58 | 1 | 3.58 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 18.4 | 1 | 18.4 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 10.6 | 1 | 10.6 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 9.21 | 1 | 9.21 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 114 | 1 | 114 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.65 | 1 | 0.65 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 16.5 | 1 | 16.5 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2.08 | 1 | 2.08 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 3.58 | 1 | 3.58 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 18.4 | 1 | 18.4 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 10.6 | 1 | 10.6 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 9.21 | 1 | 9.21 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1.254592876 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | 0.378395492 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 1.254592876 | 24.59002038 | 24.59002038 | 25 | 114 | 1 | 114 | 0.1 | 0.378395492 | 43.13708605 | 4.313708605 | 4.3 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 1.254592876 | 0.351286005 | 0.351286005 | 0.35 | 0.65 | 1 | 0.65 | 0.1 | 0.378395492 | 0.24595707 | 0.024595707 | 0.025 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.254592876 | 16.05878882 | 16.05878882 | 16 | 16.5 | 1 | 16.5 | 0.1 | 0.378395492 | 6.243525613 | 0.624352561 | 0.62 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 1.254592876 | 2.559369468 | 2.559369468 | 2.6 | 2.08 | 1 | 2.08 | 0.1 | 0.378395492 | 0.787062623 | 0.078706262 | 0.079 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.254592876 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | 0.378395492 | 0.522185779 | 0.052218578 | 0.052 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.254592876 | 3.876691988 | 3.876691988 | 3.9 | 3.58 | 1 | 3.58 | 0.1 | 0.378395492 | 1.35465586 | 0.135465586 | 0.14 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.254592876 | 16.30970739 | 16.30970739 | 16 | 18.4 | 1 | 18.4 | 0.1 | 0.378395492 | 6.962477047 | 0.696247705 | 0.7 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 1.254592876 | 7.276638683 | 7.276638683 | 7.3 | 10.6 | 1 | 10.6 | 0.1 | 0.378395492 | 4.010992212 | 0.401099221 | 0.4 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.254592876 | 6.668161138 | 6.668161138 | 6.7 | 9.21 | 1 | 9.21 | 0.1 | 0.378395492 | 3.485022478 | 0.348502248 | 0.35 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | 1.254592876 | | | | | | | 0.1 | 0.378395492 | | | |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 1.254592876 | | | | | | | 0.1 | 0.378395492 | | | |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1.254592876 | | | | | | | 0.1 | 0.378395492 | | | |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 1.254592876 | | | | | | | 0.1 | 0.378395492 | | | |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 3.803951824 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | 0.325425826 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 3.803951824 | 74.55745575 | 74.55745575 | 75 | 114 | 1 | 114 | 0.1 | 0.325425826 | 37.09854419 | 3.709854419 | 3.7 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.803951824 | 1.065106511 | 1.065106511 | 1.1 | 0.65 | 1 | 0.65 | 0.1 | 0.325425826 | 0.211526787 | 0.021152679 | 0.021 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 3.803951824 | 48.69058334 | 48.69058334 | 49 | 16.5 | 1 | 16.5 | 0.1 | 0.325425826 | 5.369526133 | 0.536952613 | 0.54 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.803951824 | 7.76006172 | 7.76006172 | 7.8 | 2.08 | 1 | 2.08 | 0.1 | 0.325425826 | 0.676885719 | 0.067688572 | 0.068 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 3.803951824 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | 0.325425826 | 0.44908764 | 0.044908764 | 0.045 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 3.803951824 | 11.75421114 | 11.75421114 | 12 | 3.58 | 1 | 3.58 | 0.1 | 0.325425826 | 1.165024458 | 0.116502446 | 0.12 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 3.803951824 | 49.45137371 | 49.45137371 | 49 | 18.4 | 1 | 18.4 | 0.1 | 0.325425826 | 5.987835203 | 0.59878352 | 0.6 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3.803951824 | 22.06292058 | 22.06292058 | 22 | 10.6 | 1 | 10.6 | 0.1 | 0.325425826 | 3.449513758 | 0.344951376 | 0.34 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3.803951824 | 20.21800394 | 20.21800394 | 20 | 9.21 | 1 | 9.21 | 0.1 | 0.325425826 | 2.99717186 | 0.299717186 | 0.3 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | 3.803951824 | | | | | | | 0.1 | 0.325425826 | | | |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 3.803951824 | | | | | | | 0.1 | 0.325425826 | | | |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 3.803951824 | | | | | | | 0.1 | 0.325425826 | | | |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 3.803951824 | | | | | | | 0.1 | 0.325425826 | | | |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 6.948577029 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | 1.15890568 | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 6.948577029 | 136.1921098 | 136.1921098 | 140 | 114 | 1 | 114 | 0.1 | 1.15890568 | 132.1152475 | 13.21152475 | 13 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 6.948577029 | 1.945601568 | 1.945601568 | 1.9 | 0.65 | 1 | 0.65 | 0.1 | 1.15890568 | 0.753288692 | 0.075328869 | 0.075 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 6.948577029 | 88.94178598 | 88.94178598 | 89 | 16.5 | 1 | 16.5 | 0.1 | 1.15890568 | 19.12194372 | 1.912194372 | 1.9 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 6.948577029 | 14.17509714 | 14.17509714 | 14 | 2.08 | 1 | 2.08 | 0.1 | 1.15890568 | 2.410523814 | 0.241052381 | 0.24 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 6.948577029 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | 1.15890568 | 1.599289838 | 0.159928984 | 0.16 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 6.948577029 | 21.47110302 | 21.47110302 | 21 | 3.58 | 1 | 3.58 | 0.1 | 1.15890568 | 4.148882334 | 0.414888233 | 0.41 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.948577029 | 90.33150138 | 90.33150138 | 90 | 18.4 | 1 | 18.4 | 0.1 | 1.15890568 | 21.32386451 | 2.132386451 | 2.1 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 6.948577029 | 40.30174677 | 40.30174677 | 40 | 10.6 | 1 | 10.6 | 0.1 | 1.15890568 | 12.28440021 | 1.228440021 | 1.2 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 6.948577029 | 36.93168691 | 36.93168691 | 37 | 9.21 | 1 | 9.21 | 0.1 | 1.15890568 | 10.67352131 | 1.067352131 | 1.1 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | 6.948577029 | | | | | | | 0.1 | 1.15890568 | | | |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 6.948577029 | | | | | | | 0.1 | 1.15890568 | | | |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 6.948577029 | | | | | | | 0.1 | 1.15890568 | | | |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6.948577029 | | | | | | | 0.1 | 1.15890568 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 8.151031584 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 8.151031584 | 159.760219 | 159.760219 | 160 | 114 | 1 | 114 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 8.151031584 | 2.282288843 | 2.282288843 | 2.3 | 0.65 | 1 | 0.65 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 8.151031584 | 104.3332043 | 104.3332043 | 100 | 16.5 | 1 | 16.5 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 8.151031584 | 16.62810443 | 16.62810443 | 17 | 2.08 | 1 | 2.08 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 8.151031584 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 8.151031584 | 25.18668759 | 25.18668759 | 25 | 3.58 | 1 | 3.58 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 8.151031584 | 105.9634106 | 105.9634106 | 110 | 18.4 | 1 | 18.4 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 8.151031584 | 47.27598319 | 47.27598319 | 47 | 10.6 | 1 | 10.6 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 8.151031584 | 43.32273287 | 43.32273287 | 43 | 9.21 | 1 | 9.21 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 37.1 | 1 | 37.1 | 0.1 | 0.167228944 | 6.204193811 | 0.620419381 | 0.62 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 5.59 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 52.7 | 1 | 52.7 | 0.1 | 0.167228944 | 8.812965333 | 0.881296533 | 0.88 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 12.9 | 1 | 12.9 | 0.1 | 0.167228944 | 2.157253374 | 0.215725337 | 0.22 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8.78 | 1 | 8.78 | 0.1 | 0.167228944 | 1.468270126 | 0.146827013 | 0.15 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 6.03 | 1 | 6.03 | 0.1 | 0.167228944 | 1.00839053 | 0.100839053 | 0.1 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 7.75 | 1 | 7.75 | 0.1 | 0.167228944 | 1.296024314 | 0.129602431 | 0.13 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.1 | 1 | 1.1 | 0.1 | 0.167228944 | 0.183951838 | 0.018395184 | 0.018 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 9.86 | 1 | 9.86 | 0.1 | 0.167228944 | 1.648877385 | 0.164887738 | 0.16 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7.31 | 1 | 7.31 | 0.1 | 0.167228944 | 1.222443578 | 0.122244358 | 0.12 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 5.34 | 1 | 5.34 | 0.1 | 0.167228944 | 0.893002559 | 0.089300256 | 0.089 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 5.05 | 1 | 5.05 | 0.1 | 0.167228944 | 0.844506166 | 0.084450617 | 0.084 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7.68 | 1 | 7.68 | 0.1 | 0.167228944 | 1.284318288 | 0.128431829 | 0.13 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7.35 | 1 | 7.35 | 0.1 | 0.167228944 | 1.229132736 | 0.122913274 | 0.12 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.1 | 0.167228944 | | | |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 6.45 | 1 | 6.45 | 0.1 | 0.167228944 | 1.078626687 | 0.107862669 | 0.11 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 4.31 | 1 | 4.31 | 0.1 | 0.167228944 | 0.720756747 | 0.072075675 | 0.072 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.33 | 1 | 2.33 | 0.1 | 0.167228944 | 0.389643439 | 0.038964344 | 0.039 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.17 | 1 | 2.17 | 0.1 | 0.167228944 | 0.362886808 | 0.036288681 | 0.036 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 14.2 | 1 | 14.2 | 0.1 | 0.167228944 | 2.374651 | 0.2374651 | 0.24 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3.35 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.3 | 1 | 3.3 | 0.1 | 0.167228944 | 0.551855514 | 0.055185551 | 0.055 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 5.51 | 1 | 5.51 | 0.1 | 0.167228944 | 0.92143148 | 0.092143148 | 0.092 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 31.1 | 1 | 31.1 | 0.1 | 0.167228944 | 5.200820149 | 0.520082015 | 0.52 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 17.2 | 1 | 17.2 | 0.1 | 0.167228944 | 2.876337832 | 0.287633783 | 0.29 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 94.6 | 1 | 94.6 | 0.1 | 0.167228944 | 15.81985807 | 1.581985807 | 1.6 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 14.6 | 1 | 14.6 | 0.1 | 0.167228944 | 2.441542578 | 0.244154258 | 0.24 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 29.3 | 1 | 29.3 | 0.1 | 0.167228944 | 4.89980805 | 0.489980805 | 0.49 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 18.6 | 1 | 18.6 | 0.1 | 0.167228944 | 3.110458353 | 0.311045835 | 0.31 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 4.15 | 1 | 4.15 | 0.1 | 0.167228944 | 0.694000116 | 0.069400012 | 0.069 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 6.93 | 1 | 6.93 | 0.1 | 0.167228944 | 1.15889658 | 0.115889658 | 0.12 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 8.76 | 1 | 8.76 | 0.1 | 0.167228944 | 1.464925547 | 0.146492555 | 0.15 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 24.8 | 1 | 24.8 | 0.1 | 0.167228944 | 4.147277804 | 0.41472778 | 0.41 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 9.33 | 1 | 9.33 | 0.1 | 0.167228944 | 1.560246045 | 0.156024604 | 0.16 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 6.65 | 1 | 6.65 | 0.1 | 0.167228944 | 1.112072476 | 0.111207248 | 0.11 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9.34 | 1 | 9.34 | 0.1 | 0.167228944 | 1.561918334 | 0.156191833 | 0.16 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 8.57 | 1 | 8.57 | 0.1 | 0.167228944 | 1.433152047 | 0.143315205 | 0.14 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.1 | 0.167228944 | | | |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9.8 | 1 | 9.8 | 0.1 | 0.167228944 | 1.638843648 | 0.163884365 | 0.16 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 7.52 | 1 | 7.52 | 0.1 | 0.167228944 | 1.257561657 | 0.125756166 | 0.13 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 13.7 | 1 | 13.7 | 0.1 | 0.167228944 | 2.291036529 | 0.229103653 | 0.23 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 37.9 | 1 | 37.9 | 0.1 | 0.167228944 | 6.337976966 | 0.633797697 | 0.63 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 12.7 | 1 | 12.7 | 0.1 | 0.167228944 | 2.123807585 | 0.212380758 | 0.21 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 76.3 | 1 | 76.3 | 0.1 | 0.167228944 | 12.7595684 | 1.27595684 | 1.3 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 22 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 70.7 | 1 | 70.7 | 0.1 | 0.167228944 | 11.82308632 | 1.182308632 | 1.2 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 88.2 | 1 | 88.2 | 0.1 | 0.167228944 | 14.74959283 | 1.474959283 | 1.5 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 63.5 | 1 | 63.5 | 0.1 | 0.167228944 | 10.61903792 | 1.061903792 | 1.1 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 8.67 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 23.9 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 146 | 1 | 146 | 0.1 | 0.167228944 | 24.41542578 | 2.441542578 | 2.4 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 30.2 | 1 | 30.2 | 0.1 | 0.167228944 | 5.0503141 | 0.50503141 | 0.51 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 32.9 | 1 | 32.9 | 0.1 | 0.167228944 | 5.501832248 | 0.550183225 | 0.55 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 43.3 | 1 | 43.3 | 0.1 | 0.167228944 | 7.241013262 | 0.724101326 | 0.72 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.1 | 0.167228944 | | | |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 75 | 1 | 75 | 0.1 | 0.167228944 | 12.54217078 | 1.254217078 | 1.3 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 129 | 1 | 129 | 0.1 | 0.167228944 | 21.57253374 | 2.157253374 | 2.2 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 58.2 | 1 | 58.2 | 0.1 | 0.167228944 | 9.732724523 | 0.973272452 | 0.97 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 77.4 | 1 | 77.4 | 0.1 | 0.167228944 | 12.94352024 | 1.294352024 | 1.3 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 15.6 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 37.8 | 1 | 37.8 | 0.1 | 0.167228944 | 6.321254072 | 0.632125407 | 0.63 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 12.3 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 168 | 1 | 168 | 0.1 | 0.167228944 | 28.09446254 | 2.809446254 | 2.8 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 193 | 1 | 193 | 0.1 | 0.167228944 | 32.27518613 | 3.227518613 | 3.2 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 14.5 | 1 | 14.5 | 0.1 | 0.167228944 | 2.424819684 | 0.242481968 | 0.24 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 372 | 1 | 372 | 0.1 | 0.167228944 | 62.20916705 | 6.220916705 | 6.2 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 66.6 | 1 | 66.6 | 0.1 | 0.167228944 | 11.13744765 | 1.113744765 | 1.1 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4.61 | 1 | 4.61 | 0.1 | 0.167228944 | 0.77092543 | 0.077092543 | 0.077 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 212 | 1 | 212 | 0.1 | 0.167228944 | 35.45253606 | 3.545253606 | 3.5 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 12 | 1 | 12 | 0.1 | 0.167228944 | 2.006747324 | 0.200674732 | 0.2 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1.6 | 1 | 1.6 | 0.1 | 0.167228944 | 0.26756631 | 0.026756631 | 0.027 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1.12 | 1 | 1.12 | 0.1 | 0.167228944 | 0.187296417 | 0.018729642 | 0.019 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.25 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 4.61 | 1 | 4.61 | 0.1 | 0.167228944 | 0.77092543 | 0.077092543 | 0.077 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 11.1 | 1 | 11.1 | 0.1 | 0.167228944 | 1.856241275 | 0.185624128 | 0.19 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 63.4 | 1 | 63.4 | 0.1 | 0.167228944 | 10.60231503 | 1.060231503 | 1.1 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 64.1 | 1 | 64.1 | 0.1 | 0.167228944 | 10.71937529 | 1.071937529 | 1.1 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 9.5 | 1 | 9.5 | 0.1 | 0.167228944 | 1.588674965 | 0.158867497 | 0.16 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.1 | 0.167228944 | | | |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 64.6 | 1 | 64.6 | 0.1 | 0.167228944 | 10.80298976 | 1.080298976 | 1.1 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 17.8 | 1 | 17.8 | 0.1 | 0.167228944 | 2.976675198 | 0.29766752 | 0.3 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 10.5 | 1 | 10.5 | 0.1 | 0.167228944 | 1.755903909 | 0.175590391 | 0.18 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 365 | 1 | 365 | 0.1 | 0.167228944 | 61.03856445 | 6.103856445 | 6.1 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1.26 | 1 | 1.26 | 0.1 | 0.167228944 | 0.210708469 | 0.021070847 | 0.021 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 3.31 | 1 | 3.31 | 0.1 | 0.167228944 | 0.553527804 | 0.05535278 | 0.055 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1.88 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.986 | 0 | 0 | 0.1 | 0.167228944 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 195.15 | 1 | 195.15 | 0.1 | 0.167228944 | 32.63472836 | 3.263472836 | 3.3 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.1 | 0.167228944 | | | |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 116 | 1 | 116 | 0.1 | 0.167228944 | 19.39855747 | 1.939855747 | 1.9 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 41.5 | 1 | 41.5 | 0.1 | 0.167228944 | 6.940001163 | 0.694000116 | 0.69 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 115.5 | 1 | 115.5 | 0.1 | 0.167228944 | 19.314943 | 1.9314943 | 1.9 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.1 | 0.167228944 | | | |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 64.5 | 1 | 64.5 | 0.1 | 0.167228944 | 10.78626687 | 1.078626687 | 1.1 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 258 | 1 | 258 | 0.1 | 0.167228944 | 43.14506747 | 4.314506747 | 4.3 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 10.5 | 1 | 10.5 | 0.1 | 0.167228944 | 1.755903909 | 0.175590391 | 0.18 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 73.9 | 1 | 73.9 | 0.1 | 0.167228944 | 12.35821894 | 1.235821894 | 1.2 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 58.8 | 1 | 58.8 | 0.1 | 0.167228944 | 9.833061889 | 0.983306189 | 0.98 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 52.1 | 1 | 52.1 | 0.1 | 0.167228944 | 8.712627966 | 0.871262797 | 0.87 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 21.8 | 1 | 21.8 | 0.1 | 0.167228944 | 3.645590973 | 0.364559097 | 0.36 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.4 | 1 | 1.4 | 0.1 | 0.167228944 | 0.234120521 | 0.023412052 | 0.023 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.36 | 1 | 2.36 | 0.1 | 0.167228944 | 0.394660307 | 0.039466031 | 0.039 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3.91 | 1 | 3.91 | 0.1 | 0.167228944 | 0.65386517 | 0.065386517 | 0.065 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 11 | 1 | 11 | 0.1 | 0.167228944 | 1.839518381 | 0.183951838 | 0.18 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 4.35 | 1 | 4.35 | 0.1 | 0.167228944 | 0.727445905 | 0.072744591 | 0.073 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 9.33 | 1 | 9.33 | 0.1 | 0.167228944 | 1.560246045 | 0.156024604 | 0.16 |
| | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 37.1 | 1 | 37.1 | 0.1 | 0.085836273 | 3.184525741 | 0.318452574 | 0.32 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 5.59 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 52.7 | 1 | 52.7 | 0.1 | 0.085836273 | 4.523571605 | 0.45235716 | 0.45 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 12.9 | 1 | 12.9 | 0.1 | 0.085836273 | 1.107287926 | 0.110728793 | 0.11 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8.78 | 1 | 8.78 | 0.1 | 0.085836273 | 0.75364248 | 0.075364248 | 0.075 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 6.03 | 1 | 6.03 | 0.1 | 0.085836273 | 0.517592728 | 0.051759273 | 0.052 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 7.75 | 1 | 7.75 | 0.1 | 0.085836273 | 0.665231118 | 0.066523112 | 0.067 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.1 | 1 | 1.1 | 0.1 | 0.085836273 | 0.094419901 | 0.00944199 | 0.0094 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 9.86 | 1 | 9.86 | 0.1 | 0.085836273 | 0.846345655 | 0.084634566 | 0.085 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7.31 | 1 | 7.31 | 0.1 | 0.085836273 | 0.627463158 | 0.062746316 | 0.063 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 5.34 | 1 | 5.34 | 0.1 | 0.085836273 | 0.4583657 | 0.04583657 | 0.046 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 5.05 | 1 | 5.05 | 0.1 | 0.085836273 | 0.43347318 | 0.043347318 | 0.043 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7.68 | 1 | 7.68 | 0.1 | 0.085836273 | 0.659222579 | 0.065922258 | 0.066 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7.35 | 1 | 7.35 | 0.1 | 0.085836273 | 0.630896609 | 0.063089661 | 0.063 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.1 | 0.085836273 | | | |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 6.45 | 1 | 6.45 | 0.1 | 0.085836273 | 0.553643963 | 0.055364396 | 0.055 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 4.31 | 1 | 4.31 | 0.1 | 0.085836273 | 0.369954338 | 0.036995434 | 0.037 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.33 | 1 | 2.33 | 0.1 | 0.085836273 | 0.199998517 | 0.019999852 | 0.02 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.17 | 1 | 2.17 | 0.1 | 0.085836273 | 0.186264713 | 0.018626471 | 0.019 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 14.2 | 1 | 14.2 | 0.1 | 0.085836273 | 1.218875081 | 0.121887508 | 0.12 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3.35 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.3 | 1 | 3.3 | 0.1 | 0.085836273 | 0.283259702 | 0.02832597 | 0.028 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 5.51 | 1 | 5.51 | 0.1 | 0.085836273 | 0.472957866 | 0.047295787 | 0.047 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 31.1 | 1 | 31.1 | 0.1 | 0.085836273 | 2.669508101 | 0.26695081 | 0.27 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 17.2 | 1 | 17.2 | 0.1 | 0.085836273 | 1.476383901 | 0.14763839 | 0.15 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 94.6 | 1 | 94.6 | 0.1 | 0.085836273 | 8.120111457 | 0.812011146 | 0.81 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 14.6 | 1 | 14.6 | 0.1 | 0.085836273 | 1.253209591 | 0.125320959 | 0.13 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 29.3 | 1 | 29.3 | 0.1 | 0.085836273 | 2.515002809 | 0.251500281 | 0.25 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 18.6 | 1 | 18.6 | 0.1 | 0.085836273 | 1.596554684 | 0.159655468 | 0.16 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 4.15 | 1 | 4.15 | 0.1 | 0.085836273 | 0.356220534 | 0.035622053 | 0.036 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 6.93 | 1 | 6.93 | 0.1 | 0.085836273 | 0.594845374 | 0.059484537 | 0.059 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 8.76 | 1 | 8.76 | 0.1 | 0.085836273 | 0.751925754 | 0.075192575 | 0.075 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 24.8 | 1 | 24.8 | 0.1 | 0.085836273 | 2.128739579 | 0.212873958 | 0.21 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 9.33 | 1 | 9.33 | 0.1 | 0.085836273 | 0.80085243 | 0.080085243 | 0.08 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 6.65 | 1 | 6.65 | 0.1 | 0.085836273 | 0.570811218 | 0.057081122 | 0.057 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9.34 | 1 | 9.34 | 0.1 | 0.085836273 | 0.801710793 | 0.080171079 | 0.08 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 8.57 | 1 | 8.57 | 0.1 | 0.085836273 | 0.735616862 | 0.073561686 | 0.074 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.1 | 0.085836273 | | | |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9.8 | 1 | 9.8 | 0.1 | 0.085836273 | 0.841195479 | 0.084119548 | 0.084 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 7.52 | 1 | 7.52 | 0.1 | 0.085836273 | 0.645488775 | 0.064548878 | 0.065 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 13.7 | 1 | 13.7 | 0.1 | 0.085836273 | 1.175956945 | 0.117595694 | 0.12 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 37.9 | 1 | 37.9 | 0.1 | 0.085836273 | 3.253194759 | 0.325319476 | 0.33 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 12.7 | 1 | 12.7 | 0.1 | 0.085836273 | 1.090120671 | 0.109012067 | 0.11 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 76.3 | 1 | 76.3 | 0.1 | 0.085836273 | 6.549307655 | 0.654930766 | 0.65 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 22 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 70.7 | 1 | 70.7 | 0.1 | 0.085836273 | 6.068624525 | 0.606862452 | 0.61 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 88.2 | 1 | 88.2 | 0.1 | 0.085836273 | 7.570759308 | 0.757075931 | 0.76 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 63.5 | 1 | 63.5 | 0.1 | 0.085836273 | 5.450603357 | 0.545060336 | 0.55 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 8.67 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 23.9 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 146 | 1 | 146 | 0.1 | 0.085836273 | 12.53209591 | 1.253209591 | 1.3 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 30.2 | 1 | 30.2 | 0.1 | 0.085836273 | 2.592255455 | 0.259225545 | 0.26 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 32.9 | 1 | 32.9 | 0.1 | 0.085836273 | 2.824013393 | 0.282401339 | 0.28 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 43.3 | 1 | 43.3 | 0.1 | 0.085836273 | 3.716710635 | 0.371671064 | 0.37 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.1 | 0.085836273 | | | |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 75 | 1 | 75 | 0.1 | 0.085836273 | 6.4377205 | 0.64377205 | 0.64 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 129 | 1 | 129 | 0.1 | 0.085836273 | 11.07287926 | 1.107287926 | 1.1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 58.2 | 1 | 58.2 | 0.1 | 0.085836273 | 4.995671108 | 0.499567111 | 0.5 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 77.4 | 1 | 77.4 | 0.1 | 0.085836273 | 6.643727556 | 0.664372756 | 0.66 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 15.6 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 37.8 | 1 | 37.8 | 0.1 | 0.085836273 | 3.244611132 | 0.324461113 | 0.32 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 12.3 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 168 | 1 | 168 | 0.1 | 0.085836273 | 14.42049392 | 1.442049392 | 1.4 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 193 | 1 | 193 | 0.1 | 0.085836273 | 16.56640075 | 1.656640075 | 1.7 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 14.5 | 1 | 14.5 | 0.1 | 0.085836273 | 1.244625963 | 0.124462596 | 0.12 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 372 | 1 | 372 | 0.1 | 0.085836273 | 31.93109368 | 3.193109368 | 3.2 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 66.6 | 1 | 66.6 | 0.1 | 0.085836273 | 5.716695804 | 0.57166958 | 0.57 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4.61 | 1 | 4.61 | 0.1 | 0.085836273 | 0.39570522 | 0.039570522 | 0.04 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 212 | 1 | 212 | 0.1 | 0.085836273 | 18.19728995 | 1.819728995 | 1.8 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 12 | 1 | 12 | 0.1 | 0.085836273 | 1.03003528 | 0.103003528 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1.6 | 1 | 1.6 | 0.1 | 0.085836273 | 0.137338037 | 0.013733804 | 0.014 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1.12 | 1 | 1.12 | 0.1 | 0.085836273 | 0.096136626 | 0.009613663 | 0.0096 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.25 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 4.61 | 1 | 4.61 | 0.1 | 0.085836273 | 0.39570522 | 0.039570522 | 0.04 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 11.1 | 1 | 11.1 | 0.1 | 0.085836273 | 0.952782634 | 0.095278263 | 0.095 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 63.4 | 1 | 63.4 | 0.1 | 0.085836273 | 5.442019729 | 0.544201973 | 0.54 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 64.1 | 1 | 64.1 | 0.1 | 0.085836273 | 5.502105121 | 0.550210512 | 0.55 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 9.5 | 1 | 9.5 | 0.1 | 0.085836273 | 0.815444597 | 0.08154446 | 0.082 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.1 | 0.085836273 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 64.6 | 1 | 64.6 | 0.1 | 0.085836273 | 5.545023257 | 0.554502326 | 0.55 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 17.8 | 1 | 17.8 | 0.1 | 0.085836273 | 1.527885665 | 0.152788567 | 0.15 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 10.5 | 1 | 10.5 | 0.1 | 0.085836273 | 0.90128087 | 0.090128087 | 0.09 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 365 | 1 | 365 | 0.1 | 0.085836273 | 31.33023977 | 3.133023977 | 3.1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1.26 | 1 | 1.26 | 0.1 | 0.085836273 | 0.108153704 | 0.01081537 | 0.011 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 3.31 | 1 | 3.31 | 0.1 | 0.085836273 | 0.284118065 | 0.028411806 | 0.028 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1.88 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.986 | 0 | 0 | 0.1 | 0.085836273 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 195.15 | 1 | 195.15 | 0.1 | 0.085836273 | 16.75094874 | 1.675094874 | 1.7 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.1 | 0.085836273 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 116 | 1 | 116 | 0.1 | 0.085836273 | 9.957007707 | 0.995700771 | 1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 41.5 | 1 | 41.5 | 0.1 | 0.085836273 | 3.562205343 | 0.356220534 | 0.36 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 115.5 | 1 | 115.5 | 0.1 | 0.085836273 | 9.91408957 | 0.991408957 | 0.99 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.1 | 0.085836273 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 64.5 | 1 | 64.5 | 0.1 | 0.085836273 | 5.53643963 | 0.553643963 | 0.55 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 258 | 1 | 258 | 0.1 | 0.085836273 | 22.14575852 | 2.214575852 | 2.2 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 10.5 | 1 | 10.5 | 0.1 | 0.085836273 | 0.90128087 | 0.090128087 | 0.09 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 73.9 | 1 | 73.9 | 0.1 | 0.085836273 | 6.343300599 | 0.63433006 | 0.63 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 58.8 | 1 | 58.8 | 0.1 | 0.085836273 | 5.047172872 | 0.504717287 | 0.5 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 52.1 | 1 | 52.1 | 0.1 | 0.085836273 | 4.472069841 | 0.447206984 | 0.45 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 21.8 | 1 | 21.8 | 0.1 | 0.085836273 | 1.871230759 | 0.187123076 | 0.19 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.4 | 1 | 1.4 | 0.1 | 0.085836273 | 0.120170783 | 0.012017078 | 0.012 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.36 | 1 | 2.36 | 0.1 | 0.085836273 | 0.202573605 | 0.020257361 | 0.02 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3.91 | 1 | 3.91 | 0.1 | 0.085836273 | 0.335619829 | 0.033561983 | 0.034 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 11 | 1 | 11 | 0.1 | 0.085836273 | 0.944199007 | 0.094419901 | 0.094 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 4.35 | 1 | 4.35 | 0.1 | 0.085836273 | 0.373387789 | 0.037338779 | 0.037 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 9.33 | 1 | 9.33 | 0.1 | 0.085836273 | 0.80085243 | 0.080085243 | 0.08 |
| | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 37.1 | 1 | 37.1 | 0.1 | 0.060733835 | 2.253225263 | 0.225322526 | 0.23 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 5.59 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 52.7 | 1 | 52.7 | 0.1 | 0.060733835 | 3.200673083 | 0.320067308 | 0.32 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 12.9 | 1 | 12.9 | 0.1 | 0.060733835 | 0.783466466 | 0.078346647 | 0.078 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8.78 | 1 | 8.78 | 0.1 | 0.060733835 | 0.533243068 | 0.053324307 | 0.053 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 6.03 | 1 | 6.03 | 0.1 | 0.060733835 | 0.366225023 | 0.036622502 | 0.037 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 7.75 | 1 | 7.75 | 0.1 | 0.060733835 | 0.470687218 | 0.047068722 | 0.047 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.1 | 1 | 1.1 | 0.1 | 0.060733835 | 0.066807218 | 0.006680722 | 0.0067 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 9.86 | 1 | 9.86 | 0.1 | 0.060733835 | 0.598835609 | 0.059883561 | 0.06 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7.31 | 1 | 7.31 | 0.1 | 0.060733835 | 0.443964331 | 0.044396433 | 0.044 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 5.34 | 1 | 5.34 | 0.1 | 0.060733835 | 0.324318677 | 0.032431868 | 0.032 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 5.05 | 1 | 5.05 | 0.1 | 0.060733835 | 0.306705865 | 0.030670586 | 0.031 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7.68 | 1 | 7.68 | 0.1 | 0.060733835 | 0.46643585 | 0.046643585 | 0.047 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7.35 | 1 | 7.35 | 0.1 | 0.060733835 | 0.446393684 | 0.044639368 | 0.045 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.1 | 0.060733835 | | | |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 6.45 | 1 | 6.45 | 0.1 | 0.060733835 | 0.391733233 | 0.039173323 | 0.039 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 4.31 | 1 | 4.31 | 0.1 | 0.060733835 | 0.261762827 | 0.026176283 | 0.026 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.33 | 1 | 2.33 | 0.1 | 0.060733835 | 0.141509835 | 0.014150983 | 0.014 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.17 | 1 | 2.17 | 0.1 | 0.060733835 | 0.131792421 | 0.013179242 | 0.013 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 14.2 | 1 | 14.2 | 0.1 | 0.060733835 | 0.862420451 | 0.086242045 | 0.086 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3.35 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.3 | 1 | 3.3 | 0.1 | 0.060733835 | 0.200421654 | 0.020042165 | 0.02 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 5.51 | 1 | 5.51 | 0.1 | 0.060733835 | 0.334643429 | 0.033464343 | 0.033 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 31.1 | 1 | 31.1 | 0.1 | 0.060733835 | 1.888822256 | 0.188882226 | 0.19 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 17.2 | 1 | 17.2 | 0.1 | 0.060733835 | 1.044621955 | 0.104462195 | 0.1 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 94.6 | 1 | 94.6 | 0.1 | 0.060733835 | 5.745420752 | 0.574542075 | 0.57 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 14.6 | 1 | 14.6 | 0.1 | 0.060733835 | 0.886713985 | 0.088671398 | 0.089 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 29.3 | 1 | 29.3 | 0.1 | 0.060733835 | 1.779501353 | 0.177950135 | 0.18 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 18.6 | 1 | 18.6 | 0.1 | 0.060733835 | 1.129649323 | 0.112964932 | 0.11 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 4.15 | 1 | 4.15 | 0.1 | 0.060733835 | 0.252045414 | 0.025204541 | 0.025 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 6.93 | 1 | 6.93 | 0.1 | 0.060733835 | 0.420885474 | 0.042088547 | 0.042 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 8.76 | 1 | 8.76 | 0.1 | 0.060733835 | 0.532028391 | 0.053202839 | 0.053 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 24.8 | 1 | 24.8 | 0.1 | 0.060733835 | 1.506199098 | 0.15061991 | 0.15 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 9.33 | 1 | 9.33 | 0.1 | 0.060733835 | 0.566646677 | 0.056664668 | 0.057 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 6.65 | 1 | 6.65 | 0.1 | 0.060733835 | 0.40388 | 0.040388 | 0.04 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9.34 | 1 | 9.34 | 0.1 | 0.060733835 | 0.567254015 | 0.056725402 | 0.057 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 8.57 | 1 | 8.57 | 0.1 | 0.060733835 | 0.520488962 | 0.052048896 | 0.052 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.1 | 0.060733835 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9.8 | 1 | 9.8 | 0.1 | 0.060733835 | 0.595191579 | 0.059519158 | 0.06 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 7.52 | 1 | 7.52 | 0.1 | 0.060733835 | 0.456718436 | 0.045671844 | 0.046 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | y/Field Duplic | 3/12/2009 | SO | 41 | 13.7 | 1 | 13.7 | 0.1 | 0.060733835 | 0.832053534 | 0.083205353 | 0.083 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 37.9 | 1 | 37.9 | 0.1 | 0.060733835 | 2.301812331 | 0.230181233 | 0.23 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 12.7 | 1 | 12.7 | 0.1 | 0.060733835 | 0.771319699 | 0.07713197 | 0.077 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 76.3 | 1 | 76.3 | 0.1 | 0.060733835 | 4.633991579 | 0.463399158 | 0.46 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 22 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 70.7 | 1 | 70.7 | 0.1 | 0.060733835 | 4.293882105 | 0.429388211 | 0.43 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 88.2 | 1 | 88.2 | 0.1 | 0.060733835 | 5.356724211 | 0.535672421 | 0.54 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 63.5 | 1 | 63.5 | 0.1 | 0.060733835 | 3.856598496 | 0.38565985 | 0.39 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 8.67 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 23.9 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 146 | 1 | 146 | 0.1 | 0.060733835 | 8.86713985 | 0.886713985 | 0.89 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 30.2 | 1 | 30.2 | 0.1 | 0.060733835 | 1.834161805 | 0.18341618 | 0.18 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 32.9 | 1 | 32.9 | 0.1 | 0.060733835 | 1.998143158 | 0.199814316 | 0.2 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 43.3 | 1 | 43.3 | 0.1 | 0.060733835 | 2.629775038 | 0.262977504 | 0.26 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.1 | 0.060733835 | | | |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 75 | 1 | 75 | 0.1 | 0.060733835 | 4.555037594 | 0.455503759 | 0.46 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 129 | 1 | 129 | 0.1 | 0.060733835 | 7.834664662 | 0.783466466 | 0.78 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 58.2 | 1 | 58.2 | 0.1 | 0.060733835 | 3.534709173 | 0.353470917 | 0.35 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 77.4 | 1 | 77.4 | 0.1 | 0.060733835 | 4.700798797 | 0.47007988 | 0.47 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 15.6 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 37.8 | 1 | 37.8 | 0.1 | 0.060733835 | 2.295738947 | 0.229573895 | 0.23 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 12.3 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 168 | 1 | 168 | 0.1 | 0.060733835 | 10.20328421 | 1.020328421 | 1 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 193 | 1 | 193 | 0.1 | 0.060733835 | 11.72163008 | 1.172163008 | 1.2 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 14.5 | 1 | 14.5 | 0.1 | 0.060733835 | 0.880640602 | 0.08806406 | 0.088 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 372 | 1 | 372 | 0.1 | 0.060733835 | 22.59298647 | 2.259298647 | 2.3 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 66.6 | 1 | 66.6 | 0.1 | 0.060733835 | 4.044873383 | 0.404487338 | 0.4 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4.61 | 1 | 4.61 | 0.1 | 0.060733835 | 0.279982977 | 0.027998298 | 0.028 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 212 | 1 | 212 | 0.1 | 0.060733835 | 12.87557293 | 1.287557293 | 1.3 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 12 | 1 | 12 | 0.1 | 0.060733835 | 0.728806015 | 0.072880602 | 0.073 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1.6 | 1 | 1.6 | 0.1 | 0.060733835 | 0.097174135 | 0.009717414 | 0.0097 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1.12 | 1 | 1.12 | 0.1 | 0.060733835 | 0.068021895 | 0.006802189 | 0.0068 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.25 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 4.61 | 1 | 4.61 | 0.1 | 0.060733835 | 0.279982977 | 0.027998298 | 0.028 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 11.1 | 1 | 11.1 | 0.1 | 0.060733835 | 0.674145564 | 0.067414556 | 0.067 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 63.4 | 1 | 63.4 | 0.1 | 0.060733835 | 3.850525113 | 0.385052511 | 0.39 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 64.1 | 1 | 64.1 | 0.1 | 0.060733835 | 3.893038797 | 0.38930388 | 0.39 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 9.5 | 1 | 9.5 | 0.1 | 0.060733835 | 0.576971429 | 0.057697143 | 0.058 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.1 | 0.060733835 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 64.6 | 1 | 64.6 | 0.1 | 0.060733835 | 3.923405714 | 0.392340571 | 0.39 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 17.8 | 1 | 17.8 | 0.1 | 0.060733835 | 1.081062256 | 0.108106226 | 0.11 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 10.5 | 1 | 10.5 | 0.1 | 0.060733835 | 0.637705263 | 0.063770526 | 0.064 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 365 | 1 | 365 | 0.1 | 0.060733835 | 22.16784962 | 2.216784962 | 2.2 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1.26 | 1 | 1.26 | 0.1 | 0.060733835 | 0.076524632 | 0.007652463 | 0.0077 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 3.31 | 1 | 3.31 | 0.1 | 0.060733835 | 0.201028992 | 0.020102899 | 0.02 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1.88 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.986 | 0 | 0 | 0.1 | 0.060733835 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 195.15 | 1 | 195.15 | 0.1 | 0.060733835 | 11.85220782 | 1.185220782 | 1.2 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.1 | 0.060733835 | | | |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 116 | 1 | 116 | 0.1 | 0.060733835 | 7.045124812 | 0.704512481 | 0.7 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 41.5 | 1 | 41.5 | 0.1 | 0.060733835 | 2.520454135 | 0.252045414 | 0.25 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 115.5 | 1 | 115.5 | 0.1 | 0.060733835 | 7.014757895 | 0.701475789 | 0.7 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.1 | 0.060733835 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 64.5 | 1 | 64.5 | 0.1 | 0.060733835 | 3.917332331 | 0.391733233 | 0.39 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 258 | 1 | 258 | 0.1 | 0.060733835 | 15.66932932 | 1.566932932 | 1.6 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 10.5 | 1 | 10.5 | 0.1 | 0.060733835 | 0.637705263 | 0.063770526 | 0.064 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 73.9 | 1 | 73.9 | 0.1 | 0.060733835 | 4.488230376 | 0.448823038 | 0.45 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 58.8 | 1 | 58.8 | 0.1 | 0.060733835 | 3.571149474 | 0.357114947 | 0.36 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 52.1 | 1 | 52.1 | 0.1 | 0.060733835 | 3.164232782 | 0.316423278 | 0.32 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 21.8 | 1 | 21.8 | 0.1 | 0.060733835 | 1.323997594 | 0.132399759 | 0.13 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.4 | 1 | 1.4 | 0.1 | 0.060733835 | 0.085027368 | 0.008502737 | 0.0085 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.36 | 1 | 2.36 | 0.1 | 0.060733835 | 0.14333185 | 0.014333185 | 0.014 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3.91 | 1 | 3.91 | 0.1 | 0.060733835 | 0.237469293 | 0.023746929 | 0.024 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 11 | 1 | 11 | 0.1 | 0.060733835 | 0.66807218 | 0.066807218 | 0.067 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 4.35 | 1 | 4.35 | 0.1 | 0.060733835 | 0.26419218 | 0.026419218 | 0.026 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 9.33 | 1 | 9.33 | 0.1 | 0.060733835 | 0.566646677 | 0.056664668 | 0.057 |
| | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | 0.624114519 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | 0.624114519 | 17.60002944 | 1.760002944 | 1.8 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | 0.624114519 | 0.368227566 | 0.036822757 | 0.037 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | 0.624114519 | 3.520005888 | 0.352000589 | 0.35 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | 0.624114519 | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | 0.624114519 | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | 0.624114519 | 0.767660859 | 0.076766086 | 0.077 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | 0.624114519 | 4.306390182 | 0.430639018 | 0.43 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | 0.624114519 | 1.822414396 | 0.18224144 | 0.18 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | 0.624114519 | 1.769364662 | 0.176936466 | 0.18 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | 0.624114519 | | | |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 0.624114519 | | | |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 0.624114519 | | | |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 0.624114519 | | | |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | 0.534389539 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | 0.534389539 | 15.06978499 | 1.506978499 | 1.5 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | 0.534389539 | 0.315289828 | 0.031528983 | 0.032 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | 0.534389539 | 3.013956997 | 0.3013957 | 0.3 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | 0.534389539 | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | 0.534389539 | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | 0.534389539 | 0.657299132 | 0.065729913 | 0.066 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | 0.534389539 | 3.687287816 | 0.368728782 | 0.37 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | 0.534389539 | 1.560417453 | 0.156041745 | 0.16 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | 0.534389539 | 1.514994342 | 0.151499434 | 0.15 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | 0.534389539 | | | |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 0.534389539 | | | |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 0.534389539 | | | |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 0.534389539 | | | |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | 12.71484224 | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | 12.71484224 | 358.5585512 | 35.85585512 | 36 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | 12.71484224 | 7.501756923 | 0.750175692 | 0.75 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | 12.71484224 | 71.71171025 | 7.171171025 | 7.2 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | 12.71484224 | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | 12.71484224 | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | 12.71484224 | 15.63925596 | 1.563925596 | 1.6 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | 12.71484224 | 87.73241147 | 8.773241147 | 8.8 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | 12.71484224 | 37.12733935 | 3.712733935 | 3.7 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | 12.71484224 | 36.04657776 | 3.604657776 | 3.6 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | 12.71484224 | | | |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | 12.71484224 | | | |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | 12.71484224 | | | |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | 12.71484224 | | | |
| | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 1.07 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.4 | 1 | 5.4 | 0.1 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.494 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2 | 1 | 2 | 0.1 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 1.02 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.1 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 1.08 | 1 | 1.08 | 0.1 | NA | 0 | 0 | 0 | 8.24 | 1 | 8.24 | 0.1 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.884 | 1 | 0.884 | 0.1 | NA | 0 | 0 | 0 | 5.85 | 1 | 5.85 | 0.1 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.679 | 1 | 0.679 | 0.1 | NA | 0 | 0 | 0 | 4.17 | 1 | 4.17 | 0.1 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.708 | 1 | 0.708 | 0.1 | NA | 0 | 0 | 0 | 5.42 | 1 | 5.42 | 0.1 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.165 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.72 | 1 | 0.72 | 0.1 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 1.08 | 1 | 1.08 | 0.1 | NA | 0 | 0 | 0 | 6.41 | 1 | 6.41 | 0.1 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.825 | 1 | 0.825 | 0.1 | NA | 0 | 0 | 0 | 5.21 | 1 | 5.21 | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.59 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.46 | 1 | 3.46 | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.46 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.73 | 1 | 3.73 | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.96 | 1 | 0.96 | 0.1 | NA | 0 | 0 | 0 | 4.92 | 1 | 4.92 | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.81 | 1 | 0.81 | 0.1 | NA | 0 | 0 | 0 | 5.01 | 1 | 5.01 | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.61 | 1 | 0.61 | 0.1 | NA | 0 | 0 | 0 | 3.63 | 1 | 3.63 | 0.1 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.422 | 1 | 0.422 | 0.1 | NA | 0 | 0 | 0 | 2.96 | 1 | 2.96 | 0.1 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.315 | 1 | 0.315 | 0.1 | NA | 0 | 0 | 0 | 1.28 | 1 | 1.28 | 0.1 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.326 | 1 | 0.326 | 0.1 | NA | 0 | 0 | 0 | 1.33 | 1 | 1.33 | 0.1 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 1.12 | 1 | 1.12 | 0.1 | NA | 0 | 0 | 0 | 9.5 | 1 | 9.5 | 0.1 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.43 | 1 | 0.43 | 0.1 | NA | 0 | 0 | 0 | 2.02 | 1 | 2.02 | 0.1 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.398 | 1 | 0.398 | 0.1 | NA | 0 | 0 | 0 | 1.88 | 1 | 1.88 | 0.1 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.813 | 1 | 0.813 | 0.1 | NA | 0 | 0 | 0 | 3.24 | 1 | 3.24 | 0.1 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 1.08 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.1 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 1.28 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.23 | 1 | 3.23 | 0.1 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 2.46 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 9.77 | 1 | 9.77 | 0.1 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 1.08 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.34 | 1 | 4.34 | 0.1 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 1.31 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.56 | 0 | 0 | 0.1 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 1.09 | 1 | 1.09 | 0.1 | NA | 0 | 0 | 0 | 7.55 | 1 | 7.55 | 0.1 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.573 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.99 | 1 | 1.99 | 0.1 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.656 | 1 | 0.656 | 0.1 | NA | 0 | 0 | 0 | 4.35 | 1 | 4.35 | 0.1 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.704 | 1 | 0.704 | 0.1 | NA | 0 | 0 | 0 | 4.46 | 1 | 4.46 | 0.1 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 1.02 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.94 | 1 | 3.94 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.933 | 1 | 0.933 | 0.1 | NA | 0 | 0 | 0 | 5.58 | 1 | 5.58 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.475 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.18 | 1 | 3.18 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.912 | 1 | 0.912 | 0.1 | NA | 0 | 0 | 0 | 6.15 | 1 | 6.15 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.8525 | 1 | 0.8525 | 0.1 | NA | 0 | 0 | 0 | 6.025 | 1 | 6.025 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.887 | 1 | 0.887 | 0.1 | NA | 0 | 0 | 0 | 5.29 | 1 | 5.29 | 0.1 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.599 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.8 | 1 | 4.8 | 0.1 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 1.17 | 1 | 1.17 | 0.1 | NA | 0 | 0 | 0 | 7.78 | 1 | 7.78 | 0.1 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 1.98 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 7.04 | 1 | 7.04 | 0.1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 1.31 | 1 | 1.31 | 0.1 | NA | 0 | 0 | 0 | 7.41 | 1 | 7.41 | 0.1 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.505 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.23 | 1 | 2.23 | 0.1 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 1.83 | 1 | 1.83 | 0.1 | NA | 0 | 0 | 0 | 7.87 | 1 | 7.87 | 0.1 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 2.33 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.77 | 1 | 6.77 | 0.1 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 2.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.1 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 1.77 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.04 | 1 | 3.04 | 0.1 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.869 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.89 | 1 | 4.89 | 0.1 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 1.44 | 1 | 1.44 | 0.1 | NA | 0 | 0 | 0 | 7.15 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 2.01 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.88 | 0 | 0 | 0.1 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 6.71 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.68 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.822 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.94 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4.58 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 16.3 | 1 | 16.3 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 2.01 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.9 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.9 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.79 | 0 | 0 | 0.1 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.686 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.45 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 1.19 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.52 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 2.77 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.73 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 1.07 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.63 | 1 | 2.63 | 0.1 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 1.39 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.96 | 1 | 4.96 | 0.1 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 2.44 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 13.4 | 1 | 13.4 | 0.1 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 2.47 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 7.25 | 1 | 7.25 | 0.1 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 2.36 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.36 | 1 | 4.36 | 0.1 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 4.57 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 15.5 | 0 | 0 | 0.1 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.769 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.77 | 1 | 2.77 | 0.1 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.463 | 1 | 0.463 | 0.1 | NA | 0 | 0 | 0 | 3.03 | 1 | 3.03 | 0.1 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 2.42 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.9 | 1 | 6.9 | 0.1 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.58 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.23 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.19 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.32 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.18 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.67 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.097 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.59 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.88 | 1 | 1.88 | 0.1 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.247 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.7 | 1 | 0.7 | 0.1 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.9 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.7 | 1 | 1.7 | 0.1 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 1.17 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.1 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.174 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.1 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1.2 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.58 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.37 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.86 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.62 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 4.4 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 13.7 | 1 | 13.7 | 0.1 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.28 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.3 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.27 | 0 | 0 | 0.1 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.2 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.5 | 1 | 0.5 | 0.1 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.121 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.3 | 1 | 0.3 | 0.1 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 2.665 | 1 | 2.665 | 0.1 | NA | 0 | 0 | 0 | 7.715 | 1 | 7.715 | 0.1 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 1.3 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.55 | 1 | 3.55 | 0.1 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1.1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.35 | 1 | 1.35 | 0.1 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 2 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.375 | 1 | 3.375 | 0.1 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.741 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.1 | 1 | 2.1 | 0.1 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 4.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.78 | 0 | 0 | 0.1 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.5 | 1 | 3.5 | 0.1 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 1.02 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.1 | 1 | 2.1 | 0.1 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.495 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.567 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2 | 1 | 2 | 0.1 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 1.41 | 1 | 1.41 | 0.1 | NA | 0 | 0 | 0 | 11.9 | 1 | 11.9 | 0.1 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.223 | 1 | 0.223 | 0.1 | NA | 0 | 0 | 0 | 1.01 | 1 | 1.01 | 0.1 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.32 | 1 | 0.32 | 0.1 | NA | 0 | 0 | 0 | 1.39 | 1 | 1.39 | 0.1 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.519 | 1 | 0.519 | 0.1 | NA | 0 | 0 | 0 | 2.42 | 1 | 2.42 | 0.1 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.96 | 1 | 0.96 | 0.1 | NA | 0 | 0 | 0 | 5.35 | 1 | 5.35 | 0.1 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.425 | 1 | 0.425 | 0.1 | NA | 0 | 0 | 0 | 3.1 | 1 | 3.1 | 0.1 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.618 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.14 | 1 | 5.14 | 0.1 |
| | | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 1.07 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.4 | 1 | 5.4 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.494 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2 | 1 | 2 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 1.02 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 1.08 | 1 | 1.08 | 0.1 | NA | 0 | 0 | 0 | 8.24 | 1 | 8.24 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.884 | 1 | 0.884 | 0.1 | NA | 0 | 0 | 0 | 5.85 | 1 | 5.85 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.679 | 1 | 0.679 | 0.1 | NA | 0 | 0 | 0 | 4.17 | 1 | 4.17 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.708 | 1 | 0.708 | 0.1 | NA | 0 | 0 | 0 | 5.42 | 1 | 5.42 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.165 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.72 | 1 | 0.72 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 1.08 | 1 | 1.08 | 0.1 | NA | 0 | 0 | 0 | 6.41 | 1 | 6.41 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.825 | 1 | 0.825 | 0.1 | NA | 0 | 0 | 0 | 5.21 | 1 | 5.21 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.59 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.46 | 1 | 3.46 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.46 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.73 | 1 | 3.73 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.96 | 1 | 0.96 | 0.1 | NA | 0 | 0 | 0 | 4.92 | 1 | 4.92 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.81 | 1 | 0.81 | 0.1 | NA | 0 | 0 | 0 | 5.01 | 1 | 5.01 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.61 | 1 | 0.61 | 0.1 | NA | 0 | 0 | 0 | 3.63 | 1 | 3.63 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.422 | 1 | 0.422 | 0.1 | NA | 0 | 0 | 0 | 2.96 | 1 | 2.96 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.315 | 1 | 0.315 | 0.1 | NA | 0 | 0 | 0 | 1.28 | 1 | 1.28 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.326 | 1 | 0.326 | 0.1 | NA | 0 | 0 | 0 | 1.33 | 1 | 1.33 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 1.12 | 1 | 1.12 | 0.1 | NA | 0 | 0 | 0 | 9.5 | 1 | 9.5 | 0.1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.43 | 1 | 0.43 | 0.1 | NA | 0 | 0 | 0 | 2.02 | 1 | 2.02 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.398 | 1 | 0.398 | 0.1 | NA | 0 | 0 | 0 | 1.88 | 1 | 1.88 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.813 | 1 | 0.813 | 0.1 | NA | 0 | 0 | 0 | 3.24 | 1 | 3.24 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 1.08 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 1.28 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.23 | 1 | 3.23 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 2.46 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 9.77 | 1 | 9.77 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 1.08 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.34 | 1 | 4.34 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 1.31 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.56 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 1.09 | 1 | 1.09 | 0.1 | NA | 0 | 0 | 0 | 7.55 | 1 | 7.55 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.573 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.99 | 1 | 1.99 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.656 | 1 | 0.656 | 0.1 | NA | 0 | 0 | 0 | 4.35 | 1 | 4.35 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.704 | 1 | 0.704 | 0.1 | NA | 0 | 0 | 0 | 4.46 | 1 | 4.46 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 1.02 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.94 | 1 | 3.94 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.933 | 1 | 0.933 | 0.1 | NA | 0 | 0 | 0 | 5.58 | 1 | 5.58 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.475 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.18 | 1 | 3.18 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.912 | 1 | 0.912 | 0.1 | NA | 0 | 0 | 0 | 6.15 | 1 | 6.15 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.8525 | 1 | 0.8525 | 0.1 | NA | 0 | 0 | 0 | 6.025 | 1 | 6.025 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.887 | 1 | 0.887 | 0.1 | NA | 0 | 0 | 0 | 5.29 | 1 | 5.29 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.599 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.8 | 1 | 4.8 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 1.17 | 1 | 1.17 | 0.1 | NA | 0 | 0 | 0 | 7.78 | 1 | 7.78 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 1.98 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 7.04 | 1 | 7.04 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 1.31 | 1 | 1.31 | 0.1 | NA | 0 | 0 | 0 | 7.41 | 1 | 7.41 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.505 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.23 | 1 | 2.23 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 1.83 | 1 | 1.83 | 0.1 | NA | 0 | 0 | 0 | 7.87 | 1 | 7.87 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 2.33 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.77 | 1 | 6.77 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 2.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 1.77 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.04 | 1 | 3.04 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.869 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.89 | 1 | 4.89 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 1.44 | 1 | 1.44 | 0.1 | NA | 0 | 0 | 0 | 7.15 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 2.01 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.88 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 6.71 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.68 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.822 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.94 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4.58 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 16.3 | 1 | 16.3 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 2.01 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.9 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.9 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.79 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.686 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.45 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 1.19 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.52 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 2.77 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.73 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 1.07 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.63 | 1 | 2.63 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 1.39 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.96 | 1 | 4.96 | 0.1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 2.44 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 13.4 | 1 | 13.4 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 2.47 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 7.25 | 1 | 7.25 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 2.36 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.36 | 1 | 4.36 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 4.57 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 15.5 | 0 | 0 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.769 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.77 | 1 | 2.77 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.463 | 1 | 0.463 | 0.1 | NA | 0 | 0 | 0 | 3.03 | 1 | 3.03 | 0.1 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 2.42 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 6.9 | 1 | 6.9 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.58 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.23 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.19 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.32 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.18 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.67 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.097 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.59 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.88 | 1 | 1.88 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.247 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.7 | 1 | 0.7 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.9 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.7 | 1 | 1.7 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 1.17 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.174 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1.2 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.58 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.37 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.86 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.62 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 4.4 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 13.7 | 1 | 13.7 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.28 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.3 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.27 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.2 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.5 | 1 | 0.5 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.121 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.3 | 1 | 0.3 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 2.665 | 1 | 2.665 | 0.1 | NA | 0 | 0 | 0 | 7.715 | 1 | 7.715 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 1.3 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.55 | 1 | 3.55 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1.1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.35 | 1 | 1.35 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 2 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.375 | 1 | 3.375 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.741 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.1 | 1 | 2.1 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 4.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.78 | 0 | 0 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 1 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3.5 | 1 | 3.5 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 1.02 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2.1 | 1 | 2.1 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.495 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.567 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2 | 1 | 2 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 1.41 | 1 | 1.41 | 0.1 | NA | 0 | 0 | 0 | 11.9 | 1 | 11.9 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.223 | 1 | 0.223 | 0.1 | NA | 0 | 0 | 0 | 1.01 | 1 | 1.01 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.32 | 1 | 0.32 | 0.1 | NA | 0 | 0 | 0 | 1.39 | 1 | 1.39 | 0.1 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.519 | 1 | 0.519 | 0.1 | NA | 0 | 0 | 0 | 2.42 | 1 | 2.42 | 0.1 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.96 | 1 | 0.96 | 0.1 | NA | 0 | 0 | 0 | 5.35 | 1 | 5.35 | 0.1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.425 | 1 | 0.425 | 0.1 | NA | 0 | 0 | 0 | 3.1 | 1 | 3.1 | 0.1 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.618 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.14 | 1 | 5.14 | 0.1 |
| | | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 1.07 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 5.4 | 1 | 5.4 | 0.1 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.494 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 2 | 1 | 2 | 0.1 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 1.02 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.1 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 1.08 | 1 | 1.08 | 0.1 | 0.092 | 0.09936 | 0.009936 | 0.0099 | 8.24 | 1 | 8.24 | 0.1 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.884 | 1 | 0.884 | 0.1 | 0.092 | 0.081328 | 0.0081328 | 0.0081 | 5.85 | 1 | 5.85 | 0.1 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.679 | 1 | 0.679 | 0.1 | 0.092 | 0.062468 | 0.0062468 | 0.0062 | 4.17 | 1 | 4.17 | 0.1 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.708 | 1 | 0.708 | 0.1 | 0.092 | 0.065136 | 0.0065136 | 0.0065 | 5.42 | 1 | 5.42 | 0.1 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.165 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 0.72 | 1 | 0.72 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 1.08 | 1 | 1.08 | 0.1 | 0.092 | 0.09936 | 0.009936 | 0.0099 | 6.41 | 1 | 6.41 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.825 | 1 | 0.825 | 0.1 | 0.092 | 0.0759 | 0.00759 | 0.0076 | 5.21 | 1 | 5.21 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.59 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 3.46 | 1 | 3.46 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.46 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 3.73 | 1 | 3.73 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.96 | 1 | 0.96 | 0.1 | 0.092 | 0.08832 | 0.008832 | 0.0088 | 4.92 | 1 | 4.92 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.81 | 1 | 0.81 | 0.1 | 0.092 | 0.07452 | 0.007452 | 0.0075 | 5.01 | 1 | 5.01 | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.1 | 0.092 | | | | | | | 0.1 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.61 | 1 | 0.61 | 0.1 | 0.092 | 0.05612 | 0.005612 | 0.0056 | 3.63 | 1 | 3.63 | 0.1 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.422 | 1 | 0.422 | 0.1 | 0.092 | 0.038824 | 0.0038824 | 0.0039 | 2.96 | 1 | 2.96 | 0.1 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.315 | 1 | 0.315 | 0.1 | 0.092 | 0.02898 | 0.002898 | 0.0029 | 1.28 | 1 | 1.28 | 0.1 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.326 | 1 | 0.326 | 0.1 | 0.092 | 0.029992 | 0.0029992 | 0.003 | 1.33 | 1 | 1.33 | 0.1 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 1.12 | 1 | 1.12 | 0.1 | 0.092 | 0.10304 | 0.010304 | 0.01 | 9.5 | 1 | 9.5 | 0.1 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.43 | 1 | 0.43 | 0.1 | 0.092 | 0.03956 | 0.003956 | 0.004 | 2.02 | 1 | 2.02 | 0.1 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.398 | 1 | 0.398 | 0.1 | 0.092 | 0.036616 | 0.0036616 | 0.0037 | 1.88 | 1 | 1.88 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.813 | 1 | 0.813 | 0.1 | 0.092 | 0.074796 | 0.0074796 | 0.0075 | 3.24 | 1 | 3.24 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 1.08 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 1.28 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 3.23 | 1 | 3.23 | 0.1 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 2.46 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 9.77 | 1 | 9.77 | 0.1 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 1.08 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 4.34 | 1 | 4.34 | 0.1 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 1.31 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 6.56 | 0 | 0 | 0.1 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 1.09 | 1 | 1.09 | 0.1 | 0.092 | 0.10028 | 0.010028 | 0.01 | 7.55 | 1 | 7.55 | 0.1 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.573 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 1.99 | 1 | 1.99 | 0.1 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.656 | 1 | 0.656 | 0.1 | 0.092 | 0.060352 | 0.0060352 | 0.006 | 4.35 | 1 | 4.35 | 0.1 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.704 | 1 | 0.704 | 0.1 | 0.092 | 0.064768 | 0.0064768 | 0.0065 | 4.46 | 1 | 4.46 | 0.1 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 1.02 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 3.94 | 1 | 3.94 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.933 | 1 | 0.933 | 0.1 | 0.092 | 0.085836 | 0.0085836 | 0.0086 | 5.58 | 1 | 5.58 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.475 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 3.18 | 1 | 3.18 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.912 | 1 | 0.912 | 0.1 | 0.092 | 0.083904 | 0.0083904 | 0.0084 | 6.15 | 1 | 6.15 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.8525 | 1 | 0.8525 | 0.1 | 0.092 | 0.07843 | 0.007843 | 0.0078 | 6.025 | 1 | 6.025 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.1 | 0.092 | | | | | | | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.887 | 1 | 0.887 | 0.1 | 0.092 | 0.081604 | 0.0081604 | 0.0082 | 5.29 | 1 | 5.29 | 0.1 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.599 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 4.8 | 1 | 4.8 | 0.1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | y/Field Duplic | 3/12/2009 | SO | 41 | 1.17 | 1 | 1.17 | 0.1 | 0.092 | 0.10764 | 0.010764 | 0.011 | 7.78 | 1 | 7.78 | 0.1 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 1.98 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 7.04 | 1 | 7.04 | 0.1 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 1.31 | 1 | 1.31 | 0.1 | 0.092 | 0.12052 | 0.012052 | 0.012 | 7.41 | 1 | 7.41 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.505 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 2.23 | 1 | 2.23 | 0.1 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 1.83 | 1 | 1.83 | 0.1 | 0.092 | 0.16836 | 0.016836 | 0.017 | 7.87 | 1 | 7.87 | 0.1 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 2.33 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 6.77 | 1 | 6.77 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 2.11 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 1.77 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 3.04 | 1 | 3.04 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.869 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 4.89 | 1 | 4.89 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 1.44 | 1 | 1.44 | 0.1 | 0.092 | 0.13248 | 0.013248 | 0.013 | 7.15 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 2.01 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 6.88 | 0 | 0 | 0.1 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 6.71 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 6.68 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.822 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 4.94 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4.58 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 16.3 | 1 | 16.3 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.1 | 0.092 | | | | | | | 0.1 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 2.01 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 4.9 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 1.9 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 6.79 | 0 | 0 | 0.1 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.686 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 3.45 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 1.19 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 5.52 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 2.77 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 6.73 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 1.07 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 2.63 | 1 | 2.63 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 1.39 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 4.96 | 1 | 4.96 | 0.1 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 2.44 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 13.4 | 1 | 13.4 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 2.47 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 7.25 | 1 | 7.25 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 2.36 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 4.36 | 1 | 4.36 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 4.57 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 15.5 | 0 | 0 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.769 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 2.77 | 1 | 2.77 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.463 | 1 | 0.463 | 0.1 | 0.092 | 0.042596 | 0.0042596 | 0.0043 | 3.03 | 1 | 3.03 | 0.1 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 2.42 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 6.9 | 1 | 6.9 | 0.1 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.58 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 1.23 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.19 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 0.32 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.18 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 0.67 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.11 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 0.097 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.59 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 1.88 | 1 | 1.88 | 0.1 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.247 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 0.7 | 1 | 0.7 | 0.1 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.9 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 1.7 | 1 | 1.7 | 0.1 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 1.17 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 3.6 | 1 | 3.6 | 0.1 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.174 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 1.1 | 1 | 1.1 | 0.1 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.1 | 0.092 | | | | | | | 0.1 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1.2 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 1.58 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.37 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 0.86 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.62 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 4.4 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 13.7 | 1 | 13.7 | 0.1 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.28 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.3 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 0.27 | 0 | 0 | 0.1 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.2 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 0.5 | 1 | 0.5 | 0.1 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.121 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 0.3 | 1 | 0.3 | 0.1 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 2.665 | 1 | 2.665 | 0.1 | 0.092 | 0.24518 | 0.024518 | 0.025 | 7.715 | 1 | 7.715 | 0.1 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.1 | 0.092 | | | | | | | 0.1 |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 1.3 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 3.55 | 1 | 3.55 | 0.1 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1.1 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 1.35 | 1 | 1.35 | 0.1 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 2 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 3.375 | 1 | 3.375 | 0.1 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.1 | 0.092 | | | | | | | 0.1 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.741 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 2.1 | 1 | 2.1 | 0.1 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 4.13 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 5.78 | 0 | 0 | 0.1 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 1 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 3.5 | 1 | 3.5 | 0.1 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 1.02 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 2.1 | 1 | 2.1 | 0.1 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.495 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 1.9 | 1 | 1.9 | 0.1 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.567 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 2 | 1 | 2 | 0.1 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 1.41 | 1 | 1.41 | 0.1 | 0.092 | 0.12972 | 0.012972 | 0.013 | 11.9 | 1 | 11.9 | 0.1 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.223 | 1 | 0.223 | 0.1 | 0.092 | 0.020516 | 0.0020516 | 0.0021 | 1.01 | 1 | 1.01 | 0.1 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.32 | 1 | 0.32 | 0.1 | 0.092 | 0.02944 | 0.002944 | 0.0029 | 1.39 | 1 | 1.39 | 0.1 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.519 | 1 | 0.519 | 0.1 | 0.092 | 0.047748 | 0.0047748 | 0.0048 | 2.42 | 1 | 2.42 | 0.1 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.96 | 1 | 0.96 | 0.1 | 0.092 | 0.08832 | 0.008832 | 0.0088 | 5.35 | 1 | 5.35 | 0.1 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.425 | 1 | 0.425 | 0.1 | 0.092 | 0.0391 | 0.00391 | 0.0039 | 3.1 | 1 | 3.1 | 0.1 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.618 | 0 | 0 | 0.1 | 0.092 | 0 | 0 | 0 | 5.14 | 1 | 5.14 | 0.1 |
| | | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.15 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 3.91 | 1 | 3.91 | 0.1 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.26 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.51 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.114 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.191 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.125 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.497 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.273 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.408 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| | | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.15 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 3.91 | 1 | 3.91 | 0.1 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.26 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.51 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.114 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.191 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.125 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.497 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.273 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.408 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| | | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.15 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 3.91 | 1 | 3.91 | 0.1 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.26 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.51 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.114 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.191 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.125 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.497 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.273 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.408 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| | | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.15 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 3.91 | 1 | 3.91 | 0.1 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.26 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.51 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.114 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.191 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.125 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.497 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.273 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.408 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.15 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 3.91 | 1 | 3.91 | 0.1 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.26 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.51 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.114 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.191 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.125 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.497 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.273 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.408 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.15 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 3.91 | 1 | 3.91 | 0.1 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.26 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.51 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.114 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.191 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.125 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.497 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.273 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.408 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.15 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 3.91 | 1 | 3.91 | 0.1 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.26 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.51 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.114 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.191 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.125 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.497 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.273 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.408 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.15 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 3.91 | 1 | 3.91 | 0.1 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.26 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.51 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.114 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.191 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.125 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.497 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.273 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.408 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.15 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 3.91 | 1 | 3.91 | 0.1 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.26 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.51 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.114 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.191 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.125 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.497 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.273 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.408 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.15 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 3.91 | 1 | 3.91 | 0.1 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.26 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.51 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.114 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.191 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.125 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.497 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.273 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.408 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.15 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 3.91 | 1 | 3.91 | 0.1 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.26 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.51 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.114 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.191 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.125 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.497 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.273 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.408 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,6,7,8-HxCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 2.263779528 | 12.22440945 | 1.222440945 | 1.2 | 38.9 | 1 | 38.9 | 0.01 | 0.086692674 | 3.372345037 | 0.03372345 | 0.034 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 2.263779528 | 4.527559055 | 0.452755906 | 0.45 | 22.5 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 2.263779528 | 8.149606299 | 0.81496063 | 0.81 | 37.8 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 2.263779528 | 18.65354331 | 1.865354331 | 1.9 | 49.4 | 1 | 49.4 | 0.01 | 0.086692674 | 4.282618119 | 0.042826181 | 0.043 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 2.263779528 | 13.24311024 | 1.324311024 | 1.3 | 42 | 1 | 42 | 0.01 | 0.086692674 | 3.641092328 | 0.036410923 | 0.036 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 2.263779528 | 9.43996063 | 0.943996063 | 0.94 | 27.9 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 2.263779528 | 12.26968504 | 1.226968504 | 1.2 | 42.7 | 1 | 42.7 | 0.01 | 0.086692674 | 3.7017772 | 0.037017772 | 0.037 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 2.263779528 | 1.62992126 | 0.162992126 | 0.16 | 4.83 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 2.263779528 | 14.51082677 | 1.451082677 | 1.5 | 37.7 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 2.263779528 | 11.79429134 | 1.179429134 | 1.2 | 32 | 1 | 32 | 0.01 | 0.086692674 | 2.774165583 | 0.027741656 | 0.028 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 2.263779528 | 7.832677165 | 0.783267717 | 0.78 | 27.6 | 1 | 27.6 | 0.01 | 0.086692674 | 2.392717815 | 0.023927178 | 0.024 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 2.263779528 | 8.443897638 | 0.844389764 | 0.84 | 23.1 | 1 | 23.1 | 0.01 | 0.086692674 | 2.00260078 | 0.020026008 | 0.02 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 2.263779528 | 11.13779528 | 1.113779528 | 1.1 | 35.6 | 1 | 35.6 | 0.01 | 0.086692674 | 3.086259211 | 0.030862592 | 0.031 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 2.263779528 | 11.34153543 | 1.134153543 | 1.1 | 34.8 | 1 | 34.8 | 0.01 | 0.086692674 | 3.016905072 | 0.030169051 | 0.03 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 2.263779528 | | | | | | | 0.01 | 0.086692674 | | | |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 2.263779528 | 8.217519685 | 0.821751969 | 0.82 | 31.3 | 1 | 31.3 | 0.01 | 0.086692674 | 2.713480711 | 0.027134807 | 0.027 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 2.263779528 | 6.700787402 | 0.67007874 | 0.67 | 25.8 | 1 | 25.8 | 0.01 | 0.086692674 | 2.236671001 | 0.02236671 | 0.022 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.263779528 | 2.897637795 | 0.28976378 | 0.29 | 10.7 | 1 | 10.7 | 0.01 | 0.086692674 | 0.927611617 | 0.009276116 | 0.0093 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.263779528 | 3.010826772 | 0.301082677 | 0.3 | 9.46 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 2.263779528 | 21.50590551 | 2.150590551 | 2.2 | 71.6 | 1 | 71.6 | 0.01 | 0.086692674 | 6.207195492 | 0.062071955 | 0.062 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 2.263779528 | 4.572834646 | 0.457283465 | 0.46 | 14.1 | 1 | 14.1 | 0.01 | 0.086692674 | 1.22236671 | 0.012223667 | 0.012 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 2.263779528 | 4.255905512 | 0.425590551 | 0.43 | 17.4 | 1 | 17.4 | 0.01 | 0.086692674 | 1.508452536 | 0.015084525 | 0.015 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 2.263779528 | 7.334645669 | 0.733464567 | 0.73 | 28.3 | 1 | 28.3 | 0.01 | 0.086692674 | 2.453402687 | 0.024534027 | 0.025 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 2.263779528 | 4.980314961 | 0.498031496 | 0.5 | 14.8 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 2.263779528 | 7.312007874 | 0.731200787 | 0.73 | 21.1 | 1 | 21.1 | 0.01 | 0.086692674 | 1.829215431 | 0.018292154 | 0.018 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 2.263779528 | 22.11712598 | 2.211712598 | 2.2 | 49.8 | 1 | 49.8 | 0.01 | 0.086692674 | 4.317295189 | 0.043172952 | 0.043 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 2.263779528 | 9.82480315 | 0.982480315 | 0.98 | 47.3 | 1 | 47.3 | 0.01 | 0.086692674 | 4.100563502 | 0.041005635 | 0.041 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 2.263779528 | 0 | 0 | 0 | 45.6 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 2.263779528 | 17.09153543 | 1.709153543 | 1.7 | 53.5 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 2.263779528 | 4.50492126 | 0.450492126 | 0.45 | 13.3 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 2.263779528 | 9.847440945 | 0.984744094 | 0.98 | 32.4 | 1 | 32.4 | 0.01 | 0.086692674 | 2.808842653 | 0.028088427 | 0.028 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 2.263779528 | 10.09645669 | 1.009645669 | 1 | 43.7 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 2.263779528 | 8.919291339 | 0.891929134 | 0.89 | 98.9 | 1 | 98.9 | 0.01 | 0.086692674 | 8.573905505 | 0.085739055 | 0.086 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 2.263779528 | 12.63188976 | 1.263188976 | 1.3 | 40.7 | 1 | 40.7 | 0.01 | 0.086692674 | 3.528391851 | 0.035283919 | 0.035 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 2.263779528 | 7.198818898 | 0.71988189 | 0.72 | 23.4 | 1 | 23.4 | 0.01 | 0.086692674 | 2.028608583 | 0.020286086 | 0.02 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 2.263779528 | 13.92224409 | 1.392224409 | 1.4 | 48 | 1 | 48 | 0.01 | 0.086692674 | 4.161248375 | 0.041612484 | 0.042 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 2.263779528 | 13.63927165 | 1.363927165 | 1.4 | 36.55 | 1 | 36.55 | 0.01 | 0.086692674 | 3.168617252 | 0.031686173 | 0.032 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 2.263779528 | | | | | | | 0.01 | 0.086692674 | | | |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 2.263779528 | 11.9753937 | 1.19753937 | 1.2 | 48.2 | 1 | 48.2 | 0.01 | 0.086692674 | 4.178586909 | 0.041785869 | 0.042 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 2.263779528 | 10.86614173 | 1.086614173 | 1.1 | 44.8 | 1 | 44.8 | 0.01 | 0.086692674 | 3.883831816 | 0.038838318 | 0.039 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 2.263779528 | 17.61220472 | 1.761220472 | 1.8 | 70.8 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 2.263779528 | 15.93700787 | 1.593700787 | 1.6 | 45.6 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,6,7,8-HxCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 2.263779528 | 16.7746063 | 1.67746063 | 1.7 | 61.8 | 1 | 61.8 | 0.01 | 0.086692674 | 5.357607282 | 0.053576073 | 0.054 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 2.263779528 | 5.048228346 | 0.504822835 | 0.5 | 21 | 1 | 21 | 0.01 | 0.086692674 | 1.820546164 | 0.018205462 | 0.018 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 2.263779528 | 17.81594488 | 1.781594488 | 1.8 | 66.7 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 2.263779528 | 15.3257874 | 1.53257874 | 1.5 | 66.8 | 1 | 66.8 | 0.01 | 0.086692674 | 5.791070655 | 0.057910707 | 0.058 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 2.263779528 | 6.542322835 | 0.654232283 | 0.65 | 35.6 | 1 | 35.6 | 0.01 | 0.086692674 | 3.086259211 | 0.030862592 | 0.031 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 2.263779528 | 6.881889764 | 0.688188976 | 0.69 | 26.6 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 2.263779528 | 11.06988189 | 1.106988189 | 1.1 | 43.7 | 1 | 43.7 | 0.01 | 0.086692674 | 3.788469874 | 0.037884699 | 0.038 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 2.263779528 | 0 | 0 | 0 | 68.4 | 1 | 68.4 | 0.01 | 0.086692674 | 5.929778934 | 0.059297789 | 0.059 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 2.263779528 | 0 | 0 | 0 | 45 | 1 | 45 | 0.01 | 0.086692674 | 3.901170351 | 0.039011704 | 0.039 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 2.263779528 | 0 | 0 | 0 | 14.8 | 1 | 14.8 | 0.01 | 0.086692674 | 1.283051582 | 0.012830516 | 0.013 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 2.263779528 | 0 | 0 | 0 | 38.4 | 1 | 38.4 | 0.01 | 0.086692674 | 3.3289987 | 0.033289987 | 0.033 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 2.263779528 | 36.8996063 | 3.68996063 | 3.7 | 73 | 1 | 73 | 0.01 | 0.086692674 | 6.328565236 | 0.063285652 | 0.063 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 2.263779528 | | | | | | | 0.01 | 0.086692674 | | | |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 2.263779528 | 0 | 0 | 0 | 58 | 1 | 58 | 0.01 | 0.086692674 | 5.028175119 | 0.050281751 | 0.05 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 2.263779528 | 0 | 0 | 0 | 74.1 | 1 | 74.1 | 0.01 | 0.086692674 | 6.423927178 | 0.064239272 | 0.064 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 2.263779528 | 0 | 0 | 0 | 34.4 | 1 | 34.4 | 0.01 | 0.086692674 | 2.982228002 | 0.02982228 | 0.03 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 2.263779528 | 0 | 0 | 0 | 45 | 1 | 45 | 0.01 | 0.086692674 | 3.901170351 | 0.039011704 | 0.039 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 2.263779528 | 0 | 0 | 0 | 49.6 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 2.263779528 | 5.953740157 | 0.595374016 | 0.6 | 18.9 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 2.263779528 | 11.22834646 | 1.122834646 | 1.1 | 36.8 | 1 | 36.8 | 0.01 | 0.086692674 | 3.19029042 | 0.031902904 | 0.032 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 2.263779528 | 30.33464567 | 3.033464567 | 3 | 98.5 | 1 | 98.5 | 0.01 | 0.086692674 | 8.539228435 | 0.085392284 | 0.085 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 2.263779528 | 16.41240157 | 1.641240157 | 1.6 | 48.7 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 2.263779528 | 9.87007874 | 0.987007874 | 0.99 | 34.4 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 2.263779528 | 0 | 0 | 0 | 156 | 1 | 156 | 0.01 | 0.086692674 | 13.52405722 | 0.135240572 | 0.14 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 2.263779528 | 6.270669291 | 0.627066929 | 0.63 | 18.5 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 2.263779528 | 6.859251969 | 0.685925197 | 0.69 | 25.2 | 1 | 25.2 | 0.01 | 0.086692674 | 2.184655397 | 0.021846554 | 0.022 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 2.263779528 | 15.62007874 | 1.562007874 | 1.6 | 46.4 | 1 | 46.4 | 0.01 | 0.086692674 | 4.022540095 | 0.040225401 | 0.04 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 2.263779528 | 0 | 0 | 0 | 9.81 | 1 | 9.81 | 0.01 | 0.086692674 | 0.850455137 | 0.008504551 | 0.0085 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 2.263779528 | 0 | 0 | 0 | 3.3 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 2.263779528 | 0 | 0 | 0 | 5.9 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 2.263779528 | 0 | 0 | 0 | 0.34 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 2.263779528 | 4.255905512 | 0.425590551 | 0.43 | 16 | 1 | 16 | 0.01 | 0.086692674 | 1.387082792 | 0.013870828 | 0.014 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 2.263779528 | 1.584645669 | 0.158464567 | 0.16 | 5.9 | 1 | 5.9 | 0.01 | 0.086692674 | 0.511486779 | 0.005114868 | 0.0051 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 2.263779528 | 3.848425197 | 0.38484252 | 0.38 | 14.8 | 1 | 14.8 | 0.01 | 0.086692674 | 1.283051582 | 0.012830516 | 0.013 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 2.263779528 | 8.149606299 | 0.81496063 | 0.81 | 25.9 | 1 | 25.9 | 0.01 | 0.086692674 | 2.245340269 | 0.022453403 | 0.022 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 2.263779528 | 2.49015748 | 0.249015748 | 0.25 | 4.7 | 1 | 4.7 | 0.01 | 0.086692674 | 0.40745557 | 0.004074556 | 0.0041 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | 2.263779528 | | | | | | | 0.01 | 0.086692674 | | | |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 2.263779528 | 0 | 0 | 0 | 7.8 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 2.263779528 | 0 | 0 | 0 | 6.24 | 1 | 6.24 | 0.01 | 0.086692674 | 0.540962289 | 0.005409623 | 0.0054 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 2.263779528 | 0 | 0 | 0 | 1.1 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 2.263779528 | 31.01377953 | 3.101377953 | 3.1 | 76.5 | 1 | 76.5 | 0.01 | 0.086692674 | 6.631989597 | 0.066319896 | 0.066 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 2.263779528 | 0 | 0 | 0 | 1.4 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,6,7,8-HxCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 2.263779528 | 0 | 0 | 0 | 0.93 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 2.263779528 | 1.131889764 | 0.113188976 | 0.11 | 4.2 | 1 | 4.2 | 0.01 | 0.086692674 | 0.364109233 | 0.003641092 | 0.0036 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 2.263779528 | 0.679133858 | 0.067913386 | 0.068 | 2.7 | 1 | 2.7 | 0.01 | 0.086692674 | 0.234070221 | 0.002340702 | 0.0023 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 2.263779528 | 17.46505906 | 1.746505906 | 1.7 | 58.75 | 1 | 58.75 | 0.01 | 0.086692674 | 5.093194625 | 0.050931946 | 0.051 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | 2.263779528 | | | | | | | 0.01 | 0.086692674 | | | |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2.263779528 | 8.036417323 | 0.803641732 | 0.8 | 24.6 | 1 | 24.6 | 0.01 | 0.086692674 | 2.132639792 | 0.021326398 | 0.021 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 2.263779528 | 3.056102362 | 0.305610236 | 0.31 | 4.94 | 1 | 4.94 | 0.01 | 0.086692674 | 0.428261812 | 0.004282618 | 0.0043 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 2.263779528 | 7.640255906 | 0.764025591 | 0.76 | 11.15 | 1 | 11.15 | 0.01 | 0.086692674 | 0.96662332 | 0.009666233 | 0.0097 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | 2.263779528 | | | | | | | 0.01 | 0.086692674 | | | |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 2.263779528 | 4.753937008 | 0.475393701 | 0.48 | 18.9 | 1 | 18.9 | 0.01 | 0.086692674 | 1.638491547 | 0.016384915 | 0.016 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 2.263779528 | 0 | 0 | 0 | 34.6 | 0 | 0 | 0.01 | 0.086692674 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 2.263779528 | 7.923228346 | 0.792322835 | 0.79 | 26.9 | 1 | 26.9 | 0.01 | 0.086692674 | 2.332032943 | 0.023320329 | 0.023 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 2.263779528 | 4.753937008 | 0.475393701 | 0.48 | 11.9 | 1 | 11.9 | 0.01 | 0.086692674 | 1.031642826 | 0.010316428 | 0.01 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 2.263779528 | 4.301181102 | 0.43011811 | 0.43 | 13.1 | 1 | 13.1 | 0.01 | 0.086692674 | 1.135674036 | 0.01135674 | 0.011 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 2.263779528 | 4.527559055 | 0.452755906 | 0.45 | 13.8 | 1 | 13.8 | 0.01 | 0.086692674 | 1.196358908 | 0.011963589 | 0.012 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 2.263779528 | 26.93897638 | 2.693897638 | 2.7 | 109 | 1 | 109 | 0.01 | 0.086692674 | 9.449501517 | 0.094495015 | 0.094 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 2.263779528 | 2.286417323 | 0.228641732 | 0.23 | 8.87 | 1 | 8.87 | 0.01 | 0.086692674 | 0.768964023 | 0.00768964 | 0.0077 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.263779528 | 3.146653543 | 0.314665354 | 0.31 | 14.3 | 1 | 14.3 | 0.01 | 0.086692674 | 1.239705245 | 0.012397052 | 0.012 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 2.263779528 | 5.478346457 | 0.547834646 | 0.55 | 20.5 | 1 | 20.5 | 0.01 | 0.086692674 | 1.777199827 | 0.017771998 | 0.018 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 2.263779528 | 12.11122047 | 1.211122047 | 1.2 | 46.7 | 1 | 46.7 | 0.01 | 0.086692674 | 4.048547898 | 0.040485479 | 0.04 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 2.263779528 | 7.017716535 | 0.701771654 | 0.7 | 26.7 | 1 | 26.7 | 0.01 | 0.086692674 | 2.314694408 | 0.023146944 | 0.023 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 2.263779528 | 11.63582677 | 1.163582677 | 1.2 | 64.7 | 1 | 64.7 | 0.01 | 0.086692674 | 5.609016038 | 0.05609016 | 0.056 |
| | | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 38.9 | 1 | 38.9 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 22.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 37.8 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 49.4 | 1 | 49.4 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 42 | 1 | 42 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 27.9 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 42.7 | 1 | 42.7 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 4.83 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 37.7 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 32 | 1 | 32 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 27.6 | 1 | 27.6 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 23.1 | 1 | 23.1 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 35.6 | 1 | 35.6 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 34.8 | 1 | 34.8 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 31.3 | 1 | 31.3 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 25.8 | 1 | 25.8 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 10.7 | 1 | 10.7 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 9.46 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 71.6 | 1 | 71.6 | 0.01 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,6,7,8-HxCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 14.1 | 1 | 14.1 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 17.4 | 1 | 17.4 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 28.3 | 1 | 28.3 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 14.8 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 21.1 | 1 | 21.1 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 49.8 | 1 | 49.8 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | /Field Duplic | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 47.3 | 1 | 47.3 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 45.6 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 53.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | /Field Duplic | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 13.3 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 32.4 | 1 | 32.4 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 43.7 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 98.9 | 1 | 98.9 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 40.7 | 1 | 40.7 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 23.4 | 1 | 23.4 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 48 | 1 | 48 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 36.55 | 1 | 36.55 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 48.2 | 1 | 48.2 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 44.8 | 1 | 44.8 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | /Field Duplic | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 70.8 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 45.6 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 61.8 | 1 | 61.8 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 21 | 1 | 21 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 66.7 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 66.8 | 1 | 66.8 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 35.6 | 1 | 35.6 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 26.6 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 43.7 | 1 | 43.7 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 68.4 | 1 | 68.4 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 45 | 1 | 45 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 14.8 | 1 | 14.8 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 38.4 | 1 | 38.4 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 73 | 1 | 73 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 58 | 1 | 58 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 74.1 | 1 | 74.1 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 34.4 | 1 | 34.4 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 45 | 1 | 45 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 49.6 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 18.9 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 36.8 | 1 | 36.8 | 0.01 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,6,7,8-HxCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 98.5 | 1 | 98.5 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 48.7 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 34.4 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 156 | 1 | 156 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 18.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 25.2 | 1 | 25.2 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 46.4 | 1 | 46.4 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 9.81 | 1 | 9.81 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 3.3 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 5.9 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 0.34 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 16 | 1 | 16 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 5.9 | 1 | 5.9 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 14.8 | 1 | 14.8 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 25.9 | 1 | 25.9 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 4.7 | 1 | 4.7 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 7.8 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 6.24 | 1 | 6.24 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 1.1 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 76.5 | 1 | 76.5 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 1.4 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 0.93 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 4.2 | 1 | 4.2 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 2.7 | 1 | 2.7 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 58.75 | 1 | 58.75 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 24.6 | 1 | 24.6 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 4.94 | 1 | 4.94 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 11.15 | 1 | 11.15 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 18.9 | 1 | 18.9 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 34.6 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 26.9 | 1 | 26.9 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 11.9 | 1 | 11.9 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 13.1 | 1 | 13.1 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 13.8 | 1 | 13.8 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 109 | 1 | 109 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 8.87 | 1 | 8.87 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 14.3 | 1 | 14.3 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 20.5 | 1 | 20.5 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 46.7 | 1 | 46.7 | 0.01 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,6,7,8-HxCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 26.7 | 1 | 26.7 | 0.01 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 64.7 | 1 | 64.7 | 0.01 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.03102406 | 0.167529925 | 0.016752992 | 0.017 | 38.9 | 1 | 38.9 | 0.01 | 0.031352632 | 1.219617368 | 0.012196174 | 0.012 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.03102406 | 0.06204812 | 0.006204812 | 0.0062 | 22.5 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.03102406 | 0.111686617 | 0.011168662 | 0.011 | 37.8 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.03102406 | 0.255638256 | 0.025563826 | 0.026 | 49.4 | 1 | 49.4 | 0.01 | 0.031352632 | 1.54882 | 0.0154882 | 0.015 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.03102406 | 0.181490752 | 0.018149075 | 0.018 | 42 | 1 | 42 | 0.01 | 0.031352632 | 1.316810526 | 0.013168105 | 0.013 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.03102406 | 0.129370331 | 0.012937033 | 0.013 | 27.9 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.03102406 | 0.168150406 | 0.016815041 | 0.017 | 42.7 | 1 | 42.7 | 0.01 | 0.031352632 | 1.338757368 | 0.013387574 | 0.013 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.03102406 | 0.022337323 | 0.002233732 | 0.0022 | 4.83 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.03102406 | 0.198864226 | 0.019886423 | 0.02 | 37.7 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.03102406 | 0.161635353 | 0.016163535 | 0.016 | 32 | 1 | 32 | 0.01 | 0.031352632 | 1.003284211 | 0.010032842 | 0.01 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.03102406 | 0.107343248 | 0.010734325 | 0.011 | 27.6 | 1 | 27.6 | 0.01 | 0.031352632 | 0.865332632 | 0.008653326 | 0.0087 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.03102406 | 0.115719744 | 0.011571974 | 0.012 | 23.1 | 1 | 23.1 | 0.01 | 0.031352632 | 0.724245789 | 0.007242458 | 0.0072 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.03102406 | 0.152638376 | 0.015263838 | 0.015 | 35.6 | 1 | 35.6 | 0.01 | 0.031352632 | 1.116153684 | 0.011161537 | 0.011 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.03102406 | 0.155430541 | 0.015543054 | 0.016 | 34.8 | 1 | 34.8 | 0.01 | 0.031352632 | 1.091071579 | 0.010910716 | 0.011 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.03102406 | | | | | | | 0.01 | 0.031352632 | | | |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.03102406 | 0.112617338 | 0.011261734 | 0.011 | 31.3 | 1 | 31.3 | 0.01 | 0.031352632 | 0.981337368 | 0.009813374 | 0.0098 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.03102406 | 0.091831218 | 0.009183122 | 0.0092 | 25.8 | 1 | 25.8 | 0.01 | 0.031352632 | 0.808897895 | 0.008088979 | 0.0081 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.03102406 | 0.039710797 | 0.00397108 | 0.004 | 10.7 | 1 | 10.7 | 0.01 | 0.031352632 | 0.335473158 | 0.003354732 | 0.0034 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.03102406 | 0.041262 | 0.0041262 | 0.0041 | 9.46 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.03102406 | 0.294728571 | 0.029472857 | 0.029 | 71.6 | 1 | 71.6 | 0.01 | 0.031352632 | 2.244848421 | 0.022448484 | 0.022 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.03102406 | 0.062668602 | 0.00626686 | 0.0063 | 14.1 | 1 | 14.1 | 0.01 | 0.031352632 | 0.442072105 | 0.004420721 | 0.0044 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.03102406 | 0.058325233 | 0.005832523 | 0.0058 | 17.4 | 1 | 17.4 | 0.01 | 0.031352632 | 0.545535789 | 0.005455358 | 0.0055 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.03102406 | 0.100517955 | 0.010051795 | 0.01 | 28.3 | 1 | 28.3 | 0.01 | 0.031352632 | 0.887279474 | 0.008872795 | 0.0089 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.03102406 | 0.068252932 | 0.006825293 | 0.0068 | 14.8 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.03102406 | 0.100207714 | 0.010020771 | 0.01 | 21.1 | 1 | 21.1 | 0.01 | 0.031352632 | 0.661540526 | 0.006615405 | 0.0066 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.03102406 | 0.303105068 | 0.030310507 | 0.03 | 49.8 | 1 | 49.8 | 0.01 | 0.031352632 | 1.561361053 | 0.015613611 | 0.016 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0.03102406 | 0.134644421 | 0.013464442 | 0.013 | 47.3 | 1 | 47.3 | 0.01 | 0.031352632 | 1.482979474 | 0.014829795 | 0.015 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.03102406 | 0 | 0 | 0 | 45.6 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.03102406 | 0.234231654 | 0.023423165 | 0.023 | 53.5 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.03102406 | 0.06173788 | 0.006173788 | 0.0062 | 13.3 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.03102406 | 0.134954662 | 0.013495466 | 0.013 | 32.4 | 1 | 32.4 | 0.01 | 0.031352632 | 1.015825263 | 0.010158253 | 0.01 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.03102406 | 0.138367308 | 0.013836731 | 0.014 | 43.7 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.03102406 | 0.122234797 | 0.01222348 | 0.012 | 98.9 | 1 | 98.9 | 0.01 | 0.031352632 | 3.100775263 | 0.031007753 | 0.031 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.03102406 | 0.173114256 | 0.017311426 | 0.017 | 40.7 | 1 | 40.7 | 0.01 | 0.031352632 | 1.276052105 | 0.012760521 | 0.013 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.03102406 | 0.098656511 | 0.009865651 | 0.0099 | 23.4 | 1 | 23.4 | 0.01 | 0.031352632 | 0.733651579 | 0.007336516 | 0.0073 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.03102406 | 0.19079797 | 0.019079797 | 0.019 | 48 | 1 | 48 | 0.01 | 0.031352632 | 1.504926316 | 0.015049263 | 0.015 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.03102406 | 0.186919962 | 0.018691996 | 0.019 | 36.55 | 1 | 36.55 | 0.01 | 0.031352632 | 1.145938684 | 0.011459387 | 0.011 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0.03102406 | | | | | | | 0.01 | 0.031352632 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.03102406 | 0.164117278 | 0.016411728 | 0.016 | 48.2 | 1 | 48.2 | 0.01 | 0.031352632 | 1.511196842 | 0.015111968 | 0.015 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.03102406 | 0.148915489 | 0.014891549 | 0.015 | 44.8 | 1 | 44.8 | 0.01 | 0.031352632 | 1.404597895 | 0.014045979 | 0.014 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,6,7,8-HxCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | /Field Duplic | 3/12/2009 | SO | 41 | 0.03102406 | 0.241367188 | 0.024136719 | 0.024 | 70.8 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.03102406 | 0.218409383 | 0.021840938 | 0.022 | 45.6 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.03102406 | 0.229888286 | 0.022988829 | 0.023 | 61.8 | 1 | 61.8 | 0.01 | 0.031352632 | 1.937592632 | 0.019375926 | 0.019 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.03102406 | 0.069183654 | 0.006918365 | 0.0069 | 21 | 1 | 21 | 0.01 | 0.031352632 | 0.658405263 | 0.006584053 | 0.0066 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.03102406 | 0.244159353 | 0.024415935 | 0.024 | 66.7 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.03102406 | 0.210032887 | 0.021003289 | 0.021 | 66.8 | 1 | 66.8 | 0.01 | 0.031352632 | 2.094355789 | 0.020943558 | 0.021 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.03102406 | 0.089659534 | 0.008965953 | 0.009 | 35.6 | 1 | 35.6 | 0.01 | 0.031352632 | 1.116153684 | 0.011161537 | 0.011 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.03102406 | 0.094313143 | 0.009431314 | 0.0094 | 26.6 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.03102406 | 0.151707654 | 0.015170765 | 0.015 | 43.7 | 1 | 43.7 | 0.01 | 0.031352632 | 1.37011 | 0.0137011 | 0.014 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.03102406 | 0 | 0 | 0 | 68.4 | 1 | 68.4 | 0.01 | 0.031352632 | 2.14452 | 0.0214452 | 0.021 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.03102406 | 0 | 0 | 0 | 45 | 1 | 45 | 0.01 | 0.031352632 | 1.410868421 | 0.014108684 | 0.014 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.03102406 | 0 | 0 | 0 | 14.8 | 1 | 14.8 | 0.01 | 0.031352632 | 0.464018947 | 0.004640189 | 0.0046 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.03102406 | 0 | 0 | 0 | 38.4 | 1 | 38.4 | 0.01 | 0.031352632 | 1.203941053 | 0.012039411 | 0.012 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.03102406 | 0.50569218 | 0.050569218 | 0.051 | 73 | 1 | 73 | 0.01 | 0.031352632 | 2.288742105 | 0.022887421 | 0.023 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.03102406 | | | | | | | 0.01 | 0.031352632 | | | |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.03102406 | 0 | 0 | 0 | 58 | 1 | 58 | 0.01 | 0.031352632 | 1.818452632 | 0.018184526 | 0.018 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.03102406 | 0 | 0 | 0 | 74.1 | 1 | 74.1 | 0.01 | 0.031352632 | 2.32323 | 0.0232323 | 0.023 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.03102406 | 0 | 0 | 0 | 34.4 | 1 | 34.4 | 0.01 | 0.031352632 | 1.078530526 | 0.010785305 | 0.011 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.03102406 | 0 | 0 | 0 | 45 | 1 | 45 | 0.01 | 0.031352632 | 1.410868421 | 0.014108684 | 0.014 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.03102406 | 0 | 0 | 0 | 49.6 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.03102406 | 0.081593278 | 0.008159328 | 0.0082 | 18.9 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.03102406 | 0.153879338 | 0.015387934 | 0.015 | 36.8 | 1 | 36.8 | 0.01 | 0.031352632 | 1.153776842 | 0.011537768 | 0.012 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.03102406 | 0.415722406 | 0.041572241 | 0.042 | 98.5 | 1 | 98.5 | 0.01 | 0.031352632 | 3.088234211 | 0.030882342 | 0.031 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.03102406 | 0.224924436 | 0.022492444 | 0.022 | 48.7 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.03102406 | 0.135264902 | 0.01352649 | 0.014 | 34.4 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.03102406 | 0 | 0 | 0 | 156 | 1 | 156 | 0.01 | 0.031352632 | 4.891010526 | 0.048910105 | 0.049 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.03102406 | 0.085936647 | 0.008593665 | 0.0086 | 18.5 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.03102406 | 0.094002902 | 0.00940029 | 0.0094 | 25.2 | 1 | 25.2 | 0.01 | 0.031352632 | 0.790086316 | 0.007900863 | 0.0079 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.03102406 | 0.214066015 | 0.021406602 | 0.021 | 46.4 | 1 | 46.4 | 0.01 | 0.031352632 | 1.454762105 | 0.014547621 | 0.015 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.03102406 | 0 | 0 | 0 | 9.81 | 1 | 9.81 | 0.01 | 0.031352632 | 0.307569316 | 0.003075693 | 0.0031 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.03102406 | 0 | 0 | 0 | 3.3 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.03102406 | 0 | 0 | 0 | 5.9 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.03102406 | 0 | 0 | 0 | 0.34 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.03102406 | 0.058325233 | 0.005832523 | 0.0058 | 16 | 1 | 16 | 0.01 | 0.031352632 | 0.501642105 | 0.005016421 | 0.005 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.03102406 | 0.021716842 | 0.002171684 | 0.0022 | 5.9 | 1 | 5.9 | 0.01 | 0.031352632 | 0.184980526 | 0.001849805 | 0.0018 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.03102406 | 0.052740902 | 0.00527409 | 0.0053 | 14.8 | 1 | 14.8 | 0.01 | 0.031352632 | 0.464018947 | 0.004640189 | 0.0046 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.03102406 | 0.111686617 | 0.011168662 | 0.011 | 25.9 | 1 | 25.9 | 0.01 | 0.031352632 | 0.812033158 | 0.008120332 | 0.0081 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.03102406 | 0.034126466 | 0.003412647 | 0.0034 | 4.7 | 1 | 4.7 | 0.01 | 0.031352632 | 0.147357368 | 0.001473574 | 0.0015 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | 0.03102406 | | | | | | | 0.01 | 0.031352632 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.03102406 | 0 | 0 | 0 | 7.8 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.03102406 | 0 | 0 | 0 | 6.24 | 1 | 6.24 | 0.01 | 0.031352632 | 0.195640421 | 0.001956404 | 0.002 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.03102406 | 0 | 0 | 0 | 1.1 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,6,7,8-HxCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.03102406 | 0.425029624 | 0.042502962 | 0.043 | 76.5 | 1 | 76.5 | 0.01 | 0.031352632 | 2.398476316 | 0.023984763 | 0.024 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.03102406 | 0 | 0 | 0 | 1.4 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.03102406 | 0 | 0 | 0 | 0.93 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.03102406 | 0.01551203 | 0.001551203 | 0.0016 | 4.2 | 1 | 4.2 | 0.01 | 0.031352632 | 0.131681053 | 0.001316811 | 0.0013 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.03102406 | 0.009307218 | 0.000930722 | 0.00093 | 2.7 | 1 | 2.7 | 0.01 | 0.031352632 | 0.084652105 | 0.000846521 | 0.00085 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.03102406 | 0.239350624 | 0.023935062 | 0.024 | 58.75 | 1 | 58.75 | 0.01 | 0.031352632 | 1.841967105 | 0.018419671 | 0.018 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | 0.03102406 | | | | | | | 0.01 | 0.031352632 | | | |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.03102406 | 0.110135414 | 0.011013541 | 0.011 | 24.6 | 1 | 24.6 | 0.01 | 0.031352632 | 0.771274737 | 0.007712747 | 0.0077 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.03102406 | 0.041882481 | 0.004188248 | 0.0042 | 4.94 | 1 | 4.94 | 0.01 | 0.031352632 | 0.154882 | 0.00154882 | 0.0015 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.03102406 | 0.104706203 | 0.01047062 | 0.01 | 11.15 | 1 | 11.15 | 0.01 | 0.031352632 | 0.349581842 | 0.003495818 | 0.0035 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | 0.03102406 | | | | | | | 0.01 | 0.031352632 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.03102406 | 0.065150526 | 0.006515053 | 0.0065 | 18.9 | 1 | 18.9 | 0.01 | 0.031352632 | 0.592564737 | 0.005925647 | 0.0059 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.03102406 | 0 | 0 | 0 | 34.6 | 0 | 0 | 0.01 | 0.031352632 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.03102406 | 0.108584211 | 0.010858421 | 0.011 | 26.9 | 1 | 26.9 | 0.01 | 0.031352632 | 0.843385789 | 0.008433858 | 0.0084 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.03102406 | 0.065150526 | 0.006515053 | 0.0065 | 11.9 | 1 | 11.9 | 0.01 | 0.031352632 | 0.373096316 | 0.003730963 | 0.0037 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.03102406 | 0.058945714 | 0.005894571 | 0.0059 | 13.1 | 1 | 13.1 | 0.01 | 0.031352632 | 0.410719474 | 0.004107195 | 0.0041 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.03102406 | 0.06204812 | 0.006204812 | 0.0062 | 13.8 | 1 | 13.8 | 0.01 | 0.031352632 | 0.432666316 | 0.004326663 | 0.0043 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.03102406 | 0.369186316 | 0.036918632 | 0.037 | 109 | 1 | 109 | 0.01 | 0.031352632 | 3.417436842 | 0.034174368 | 0.034 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.03102406 | 0.031334301 | 0.00313343 | 0.0031 | 8.87 | 1 | 8.87 | 0.01 | 0.031352632 | 0.278097842 | 0.002780978 | 0.0028 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.03102406 | 0.043123444 | 0.004312344 | 0.0043 | 14.3 | 1 | 14.3 | 0.01 | 0.031352632 | 0.448342632 | 0.004483426 | 0.0045 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.03102406 | 0.075078226 | 0.007507823 | 0.0075 | 20.5 | 1 | 20.5 | 0.01 | 0.031352632 | 0.642728947 | 0.006427289 | 0.0064 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.03102406 | 0.165978722 | 0.016597872 | 0.017 | 46.7 | 1 | 46.7 | 0.01 | 0.031352632 | 1.464167895 | 0.014641679 | 0.015 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.03102406 | 0.096174586 | 0.009617459 | 0.0096 | 26.7 | 1 | 26.7 | 0.01 | 0.031352632 | 0.837115263 | 0.008371153 | 0.0084 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.03102406 | 0.159463669 | 0.015946367 | 0.016 | 64.7 | 1 | 64.7 | 0.01 | 0.031352632 | 2.028515263 | 0.020285153 | 0.02 |
| | | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 102 | 1 | 102 | 0.01 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 26.3 | 1 | 26.3 | 0.01 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3.43 | 1 | 3.43 | 0.01 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.53 | 1 | 1.53 | 0.01 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4.62 | 1 | 4.62 | 0.01 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 36.3 | 1 | 36.3 | 0.01 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 0.01 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 11.85 | 1 | 11.85 | 0.01 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.01 | 0.521397723 | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 102 | 1 | 102 | 0.01 | 0.521397723 | 53.18256773 | 0.531825677 | 0.53 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.5 | 0 | 0 | 0.01 | 0.521397723 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,6,7,8-HxCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 26.3 | 1 | 26.3 | 0.01 | 0.521397723 | 13.71276011 | 0.137127601 | 0.14 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3.43 | 1 | 3.43 | 0.01 | 0.521397723 | 1.788394189 | 0.017883942 | 0.018 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.53 | 1 | 1.53 | 0.01 | 0.521397723 | 0.797738516 | 0.007977385 | 0.008 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4.62 | 1 | 4.62 | 0.01 | 0.521397723 | 2.408857479 | 0.024088575 | 0.024 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 36.3 | 1 | 36.3 | 0.01 | 0.521397723 | 18.92673734 | 0.189267373 | 0.19 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 0.01 | 0.521397723 | 7.09100903 | 0.07091009 | 0.071 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 11.85 | 1 | 11.85 | 0.01 | 0.521397723 | 6.178563015 | 0.06178563 | 0.062 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.01 | 0.521397723 | | | |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.01 | 0.521397723 | | | |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.01 | 0.521397723 | | | |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.01 | 0.521397723 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 102 | 1 | 102 | 0.01 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 26.3 | 1 | 26.3 | 0.01 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3.43 | 1 | 3.43 | 0.01 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.53 | 1 | 1.53 | 0.01 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4.62 | 1 | 4.62 | 0.01 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 36.3 | 1 | 36.3 | 0.01 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 0.01 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 11.85 | 1 | 11.85 | 0.01 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.01 | 2.526414066 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 102 | 1 | 102 | 0.01 | 2.526414066 | 257.6942347 | 2.576942347 | 2.6 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.5 | 0 | 0 | 0.01 | 2.526414066 | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 26.3 | 1 | 26.3 | 0.01 | 2.526414066 | 66.44468993 | 0.664446899 | 0.66 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3.43 | 1 | 3.43 | 0.01 | 2.526414066 | 8.665600245 | 0.086656002 | 0.087 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.53 | 1 | 1.53 | 0.01 | 2.526414066 | 3.86541352 | 0.038654135 | 0.039 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4.62 | 1 | 4.62 | 0.01 | 2.526414066 | 11.67203298 | 0.11672033 | 0.12 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 36.3 | 1 | 36.3 | 0.01 | 2.526414066 | 91.70883058 | 0.917088306 | 0.92 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 0.01 | 2.526414066 | 34.35923129 | 0.343592313 | 0.34 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 11.85 | 1 | 11.85 | 0.01 | 2.526414066 | 29.93800668 | 0.299380067 | 0.3 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.01 | 2.526414066 | | | |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.01 | 2.526414066 | | | |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.01 | 2.526414066 | | | |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.01 | 2.526414066 | | | |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,6,7,8-HxCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.01 | 0.173358313 | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 102 | 1 | 102 | 0.01 | 0.173358313 | 17.68254796 | 0.17682548 | 0.18 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.5 | 0 | 0 | 0.01 | 0.173358313 | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 26.3 | 1 | 26.3 | 0.01 | 0.173358313 | 4.559323642 | 0.045593236 | 0.046 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3.43 | 1 | 3.43 | 0.01 | 0.173358313 | 0.594619015 | 0.00594619 | 0.0059 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.53 | 1 | 1.53 | 0.01 | 0.173358313 | 0.265238219 | 0.002652382 | 0.0027 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4.62 | 1 | 4.62 | 0.01 | 0.173358313 | 0.800915408 | 0.008009154 | 0.008 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 36.3 | 1 | 36.3 | 0.01 | 0.173358313 | 6.292906775 | 0.062929068 | 0.063 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 0.01 | 0.173358313 | 2.357673062 | 0.023576731 | 0.024 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 11.85 | 1 | 11.85 | 0.01 | 0.173358313 | 2.054296013 | 0.02054296 | 0.021 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.01 | 0.173358313 | | | |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.01 | 0.173358313 | | | |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.01 | 0.173358313 | | | |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.01 | 0.173358313 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.01 | 0.157188862 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 102 | 1 | 102 | 0.01 | 0.157188862 | 16.0332639 | 0.160332639 | 0.16 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.5 | 0 | 0 | 0.01 | 0.157188862 | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 26.3 | 1 | 26.3 | 0.01 | 0.157188862 | 4.134067064 | 0.041340671 | 0.041 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3.43 | 1 | 3.43 | 0.01 | 0.157188862 | 0.539157796 | 0.005391578 | 0.0054 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.53 | 1 | 1.53 | 0.01 | 0.157188862 | 0.240498958 | 0.00240499 | 0.0024 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4.62 | 1 | 4.62 | 0.01 | 0.157188862 | 0.726212541 | 0.007262125 | 0.0073 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 36.3 | 1 | 36.3 | 0.01 | 0.157188862 | 5.705955681 | 0.057059557 | 0.057 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 0.01 | 0.157188862 | 2.13776852 | 0.021377685 | 0.021 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 11.85 | 1 | 11.85 | 0.01 | 0.157188862 | 1.862688012 | 0.01862688 | 0.019 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.01 | 0.157188862 | | | |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.01 | 0.157188862 | | | |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.01 | 0.157188862 | | | |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.01 | 0.157188862 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 102 | 1 | 102 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 26.3 | 1 | 26.3 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3.43 | 1 | 3.43 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.53 | 1 | 1.53 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4.62 | 1 | 4.62 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 36.3 | 1 | 36.3 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 11.85 | 1 | 11.85 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,6,7,8-HxCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.01 | 0.133533036 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 102 | 1 | 102 | 0.01 | 0.133533036 | 13.62036971 | 0.136203697 | 0.14 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.5 | 0 | 0 | 0.01 | 0.133533036 | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 26.3 | 1 | 26.3 | 0.01 | 0.133533036 | 3.511918856 | 0.035119189 | 0.035 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3.43 | 1 | 3.43 | 0.01 | 0.133533036 | 0.458018315 | 0.004580183 | 0.0046 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.53 | 1 | 1.53 | 0.01 | 0.133533036 | 0.204305546 | 0.002043055 | 0.002 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4.62 | 1 | 4.62 | 0.01 | 0.133533036 | 0.616922628 | 0.006169226 | 0.0062 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 36.3 | 1 | 36.3 | 0.01 | 0.133533036 | 4.847249219 | 0.048472492 | 0.048 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 0.01 | 0.133533036 | 1.816049294 | 0.018160493 | 0.018 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 11.85 | 1 | 11.85 | 0.01 | 0.133533036 | 1.582366481 | 0.015823665 | 0.016 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.01 | 0.133533036 | | | |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.01 | 0.133533036 | | | |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.01 | 0.133533036 | | | |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.01 | 0.133533036 | | | |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.351779236 | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.351779236 | 3.33838495 | 0.333838495 | 0.33 | 102 | 1 | 102 | 0.01 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.351779236 | 0 | 0 | 0 | 3.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.351779236 | 1.428223698 | 0.14282237 | 0.14 | 26.3 | 1 | 26.3 | 0.01 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.351779236 | 0 | 0 | 0 | 3.43 | 1 | 3.43 | 0.01 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.351779236 | 0 | 0 | 0 | 1.53 | 1 | 1.53 | 0.01 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.351779236 | 0.2761467 | 0.02761467 | 0.028 | 4.62 | 1 | 4.62 | 0.01 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.351779236 | 2.005141645 | 0.200514165 | 0.2 | 36.3 | 1 | 36.3 | 0.01 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.351779236 | 0.664862756 | 0.066486276 | 0.066 | 13.6 | 1 | 13.6 | 0.01 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.351779236 | 0.680692822 | 0.068069282 | 0.068 | 11.85 | 1 | 11.85 | 0.01 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | 0.351779236 | | | | | | | 0.01 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.351779236 | | | | | | | 0.01 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.351779236 | | | | | | | 0.01 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.351779236 | | | | | | | 0.01 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 102 | 1 | 102 | 0.01 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 26.3 | 1 | 26.3 | 0.01 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3.43 | 1 | 3.43 | 0.01 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.53 | 1 | 1.53 | 0.01 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4.62 | 1 | 4.62 | 0.01 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 36.3 | 1 | 36.3 | 0.01 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 0.01 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 11.85 | 1 | 11.85 | 0.01 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,6,7,8-HxCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.55 | 0 | 0 | 0.01 | 0.165273588 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 102 | 1 | 102 | 0.01 | 0.165273588 | 16.85790593 | 0.168579059 | 0.17 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.5 | 0 | 0 | 0.01 | 0.165273588 | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 26.3 | 1 | 26.3 | 0.01 | 0.165273588 | 4.346695353 | 0.043466954 | 0.043 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 3.43 | 1 | 3.43 | 0.01 | 0.165273588 | 0.566888405 | 0.005668884 | 0.0057 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.53 | 1 | 1.53 | 0.01 | 0.165273588 | 0.252868589 | 0.002528686 | 0.0025 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 4.62 | 1 | 4.62 | 0.01 | 0.165273588 | 0.763563974 | 0.00763564 | 0.0076 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 36.3 | 1 | 36.3 | 0.01 | 0.165273588 | 5.999431228 | 0.059994312 | 0.06 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 13.6 | 1 | 13.6 | 0.01 | 0.165273588 | 2.247720791 | 0.022477208 | 0.022 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 11.85 | 1 | 11.85 | 0.01 | 0.165273588 | 1.958492013 | 0.01958492 | 0.02 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.01 | 0.165273588 | | | |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.01 | 0.165273588 | | | |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.01 | 0.165273588 | | | |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.01 | 0.165273588 | | | |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 10.2 | 1 | 10.2 | 0.01 | 0.02583585 | 0.26352567 | 0.002635257 | 0.0026 | 72 | 1 | 72 | 0.0001 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 3.66 | 0 | 0 | 0.01 | 0.02583585 | 0 | 0 | 0 | 61 | 1 | 61 | 0.0001 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 8 | 1 | 8 | 0.01 | 0.02583585 | 0.2066868 | 0.002066868 | 0.0021 | 126 | 1 | 126 | 0.0001 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 13.7 | 1 | 13.7 | 0.01 | 0.02583585 | 0.353951145 | 0.003539511 | 0.0035 | 87.8 | 1 | 87.8 | 0.0001 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 11.7 | 1 | 11.7 | 0.01 | 0.02583585 | 0.302279445 | 0.003022794 | 0.003 | 88.7 | 1 | 88.7 | 0.0001 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7.46 | 1 | 7.46 | 0.01 | 0.02583585 | 0.192735441 | 0.001927354 | 0.0019 | 62.3 | 1 | 62.3 | 0.0001 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 9.7 | 1 | 9.7 | 0.01 | 0.02583585 | 0.250607745 | 0.002506077 | 0.0025 | 68.3 | 1 | 68.3 | 0.0001 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.1 | 1 | 1.1 | 0.01 | 0.02583585 | 0.028419435 | 0.000284194 | 0.00028 | 7.73 | 1 | 7.73 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 11.9 | 1 | 11.9 | 0.01 | 0.02583585 | 0.307446615 | 0.003074466 | 0.0031 | 72.5 | 1 | 72.5 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 9.01 | 1 | 9.01 | 0.01 | 0.02583585 | 0.232781008 | 0.00232781 | 0.0023 | 63.7 | 1 | 63.7 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 5.05 | 1 | 5.05 | 0.01 | 0.02583585 | 0.130471042 | 0.00130471 | 0.0013 | 55.3 | 1 | 55.3 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 4.83 | 1 | 4.83 | 0.01 | 0.02583585 | 0.124787155 | 0.001247872 | 0.0012 | 39.9 | 1 | 39.9 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 8.07 | 1 | 8.07 | 0.01 | 0.02583585 | 0.208495309 | 0.002084953 | 0.0021 | 52.5 | 1 | 52.5 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7.25 | 1 | 7.25 | 0.01 | 0.02583585 | 0.187309912 | 0.001873099 | 0.0019 | 59.5 | 1 | 59.5 | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.01 | 0.02583585 | | | | | | | 0.0001 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 5.7 | 1 | 5.7 | 0.01 | 0.02583585 | 0.147264345 | 0.001472643 | 0.0015 | 55.7 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 6.66 | 1 | 6.66 | 0.01 | 0.02583585 | 0.172066761 | 0.001720668 | 0.0017 | 60.7 | 1 | 60.7 | 0.0001 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.77 | 1 | 2.77 | 0.01 | 0.02583585 | 0.071565304 | 0.000715653 | 0.00072 | 23 | 1 | 23 | 0.0001 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.78 | 1 | 2.78 | 0.01 | 0.02583585 | 0.071823663 | 0.000718237 | 0.00072 | 19 | 1 | 19 | 0.0001 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 16.4 | 1 | 16.4 | 0.01 | 0.02583585 | 0.42370794 | 0.004237079 | 0.0042 | 141 | 1 | 141 | 0.0001 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 2.84 | 0 | 0 | 0.01 | 0.02583585 | 0 | 0 | 0 | 28.6 | 0 | 0 | 0.0001 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.87 | 1 | 3.87 | 0.01 | 0.02583585 | 0.099984739 | 0.000999847 | 0.001 | 33 | 1 | 33 | 0.0001 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6.25 | 1 | 6.25 | 0.01 | 0.02583585 | 0.161474062 | 0.001614741 | 0.0016 | 55.3 | 1 | 55.3 | 0.0001 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 3.07 | 1 | 3.07 | 0.01 | 0.02583585 | 0.079316059 | 0.000793161 | 0.00079 | 25.1 | 1 | 25.1 | 0.0001 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 4.39 | 1 | 4.39 | 0.01 | 0.02583585 | 0.113419381 | 0.001134194 | 0.0011 | 33.7 | 1 | 33.7 | 0.0001 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 9.65 | 1 | 9.65 | 0.01 | 0.02583585 | 0.249315952 | 0.00249316 | 0.0025 | 75.4 | 1 | 75.4 | 0.0001 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 6.68 | 1 | 6.68 | 0.01 | 0.02583585 | 0.172583478 | 0.001725835 | 0.0017 | 70.3 | 1 | 70.3 | 0.0001 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 11.7 | 1 | 11.7 | 0.01 | 0.02583585 | 0.302279445 | 0.003022794 | 0.003 | 92.6 | 1 | 92.6 | 0.0001 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 12.8 | 1 | 12.8 | 0.01 | 0.02583585 | 0.33069888 | 0.003306989 | 0.0033 | 122 | 1 | 122 | 0.0001 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 3.52 | 1 | 3.52 | 0.01 | 0.02583585 | 0.090942192 | 0.000909422 | 0.00091 | 24.7 | 1 | 24.7 | 0.0001 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 7.86 | 1 | 7.86 | 0.01 | 0.02583585 | 0.203069781 | 0.002030698 | 0.002 | 58.3 | 1 | 58.3 | 0.0001 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 9.76 | 1 | 9.76 | 0.01 | 0.02583585 | 0.252157896 | 0.002521579 | 0.0025 | 83.2 | 1 | 83.2 | 0.0001 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 8.7 | 1 | 8.7 | 0.01 | 0.02583585 | 0.224771895 | 0.002247719 | 0.0022 | 252 | 1 | 252 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 11.4 | 1 | 11.4 | 0.01 | 0.02583585 | 0.29452869 | 0.002945287 | 0.0029 | 77.2 | 1 | 77.2 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 4.65 | 1 | 4.65 | 0.01 | 0.02583585 | 0.120136702 | 0.001201367 | 0.0012 | 37.2 | 1 | 37.2 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 10.7 | 1 | 10.7 | 0.01 | 0.02583585 | 0.276443595 | 0.002764436 | 0.0028 | 85.5 | 1 | 85.5 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 8.9 | 1 | 8.9 | 0.01 | 0.02583585 | 0.229939065 | 0.002299391 | 0.0023 | 66.3 | 1 | 66.3 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.01 | 0.02583585 | | | | | | | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 12.5 | 1 | 12.5 | 0.01 | 0.02583585 | 0.322948125 | 0.003229481 | 0.0032 | 99.7 | 1 | 99.7 | 0.0001 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8.51 | 1 | 8.51 | 0.01 | 0.02583585 | 0.219863083 | 0.002198631 | 0.0022 | 102 | 1 | 102 | 0.0001 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 15.8 | 1 | 15.8 | 0.01 | 0.02583585 | 0.40820643 | 0.004082064 | 0.0041 | 135 | 1 | 135 | 0.0001 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 13.5 | 1 | 13.5 | 0.01 | 0.02583585 | 0.348783975 | 0.00348784 | 0.0035 | 95 | 1 | 95 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 14.4 | 1 | 14.4 | 0.01 | 0.02583585 | 0.37203624 | 0.003720362 | 0.0037 | 139 | 1 | 139 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3.84 | 1 | 3.84 | 0.01 | 0.02583585 | 0.099209664 | 0.000992097 | 0.00099 | 34.7 | 1 | 34.7 | 0.0001 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 15.1 | 1 | 15.1 | 0.01 | 0.02583585 | 0.390121335 | 0.003901213 | 0.0039 | 121 | 1 | 121 | 0.0001 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 12.3 | 1 | 12.3 | 0.01 | 0.02583585 | 0.317780955 | 0.00317781 | 0.0032 | 121 | 1 | 121 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 6.14 | 1 | 6.14 | 0.01 | 0.02583585 | 0.158632119 | 0.001586321 | 0.0016 | 65.2 | 1 | 65.2 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 5.32 | 1 | 5.32 | 0.01 | 0.02583585 | 0.137446722 | 0.001374467 | 0.0014 | 47.3 | 1 | 47.3 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 8.86 | 1 | 8.86 | 0.01 | 0.02583585 | 0.228905631 | 0.002289056 | 0.0023 | 80.3 | 1 | 80.3 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 13.8 | 1 | 13.8 | 0.01 | 0.02583585 | 0.35653473 | 0.003565347 | 0.0036 | 106 | 1 | 106 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 10.9 | 1 | 10.9 | 0.01 | 0.02583585 | 0.281610765 | 0.002816108 | 0.0028 | 64.3 | 1 | 64.3 | 0.0001 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 13.5 | 0 | 0 | 0.01 | 0.02583585 | 0 | 0 | 0 | 55.7 | 1 | 55.7 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 7.84 | 1 | 7.84 | 0.01 | 0.02583585 | 0.202553064 | 0.002025531 | 0.002 | 62.2 | 1 | 62.2 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 54.5 | 1 | 54.5 | 0.01 | 0.02583585 | 1.408053824 | 0.014080538 | 0.014 | 158 | 1 | 158 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.01 | 0.02583585 | | | | | | | 0.0001 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 10.4 | 1 | 10.4 | 0.01 | 0.02583585 | 0.26869284 | 0.002686928 | 0.0027 | 93 | 1 | 93 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 13.8 | 1 | 13.8 | 0.01 | 0.02583585 | 0.35653473 | 0.003565347 | 0.0036 | 126 | 1 | 126 | 0.0001 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 7.86 | 1 | 7.86 | 0.01 | 0.02583585 | 0.203069781 | 0.002030698 | 0.002 | 62.9 | 1 | 62.9 | 0.0001 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 9.55 | 1 | 9.55 | 0.01 | 0.02583585 | 0.246732367 | 0.002467324 | 0.0025 | 82 | 1 | 82 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 10.4 | 1 | 10.4 | 0.01 | 0.02583585 | 0.26869284 | 0.002686928 | 0.0027 | 111 | 1 | 111 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 4.43 | 1 | 4.43 | 0.01 | 0.02583585 | 0.114452815 | 0.001144528 | 0.0011 | 40.4 | 1 | 40.4 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 7.38 | 1 | 7.38 | 0.01 | 0.02583585 | 0.190668573 | 0.001906686 | 0.0019 | 67.7 | 1 | 67.7 | 0.0001 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 15.2 | 1 | 15.2 | 0.01 | 0.02583585 | 0.39270492 | 0.003927049 | 0.0039 | 166 | 1 | 166 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 18 | 1 | 18 | 0.01 | 0.02583585 | 0.4650453 | 0.004650453 | 0.0047 | 106 | 1 | 106 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 7.15 | 1 | 7.15 | 0.01 | 0.02583585 | 0.184726327 | 0.001847263 | 0.0018 | 73.4 | 1 | 73.4 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 32.1 | 1 | 32.1 | 0.01 | 0.02583585 | 0.829330785 | 0.008293308 | 0.0083 | 237 | 1 | 237 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 3.4 | 1 | 3.4 | 0.01 | 0.02583585 | 0.08784189 | 0.000878419 | 0.00088 | 28.7 | 1 | 28.7 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4.89 | 1 | 4.89 | 0.01 | 0.02583585 | 0.126337306 | 0.001263373 | 0.0013 | 49 | 1 | 49 | 0.0001 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 10.3 | 1 | 10.3 | 0.01 | 0.02583585 | 0.266109255 | 0.002661093 | 0.0027 | 69 | 1 | 69 | 0.0001 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1.8 | 1 | 1.8 | 0.01 | 0.02583585 | 0.04650453 | 0.000465045 | 0.00047 | 20 | 1 | 20 | 0.0001 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.2 | 0 | 0 | 0.01 | 0.02583585 | 0 | 0 | 0 | 4.46 | 1 | 4.46 | 0.0001 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.93 | 1 | 0.93 | 0.01 | 0.02583585 | 0.02402734 | 0.000240273 | 0.00024 | 9.74 | 1 | 9.74 | 0.0001 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.25 | 1 | 0.25 | 0.01 | 0.02583585 | 0.006458962 | 6.45896E-05 | 0.000065 | 0.74 | 0 | 0 | 0.0001 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 3.07 | 1 | 3.07 | 0.01 | 0.02583585 | 0.079316059 | 0.000793161 | 0.00079 | 29.8 | 1 | 29.8 | 0.0001 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1.05 | 0 | 0 | 0.01 | 0.02583585 | 0 | 0 | 0 | 11 | 1 | 11 | 0.0001 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3.4 | 1 | 3.4 | 0.01 | 0.02583585 | 0.08784189 | 0.000878419 | 0.00088 | 32 | 1 | 32 | 0.0001 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 5.7 | 1 | 5.7 | 0.01 | 0.02583585 | 0.147264345 | 0.001472643 | 0.0015 | 50 | 1 | 50 | 0.0001 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1.05 | 1 | 1.05 | 0.01 | 0.02583585 | 0.027127642 | 0.000271276 | 0.00027 | 8.5 | 1 | 8.5 | 0.0001 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.01 | 0.02583585 | | | | | | | 0.0001 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 2.15 | 0 | 0 | 0.01 | 0.02583585 | 0 | 0 | 0 | 15.7 | 1 | 15.7 | 0.0001 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1.03 | 0 | 0 | 0.01 | 0.02583585 | 0 | 0 | 0 | 11.5 | 1 | 11.5 | 0.0001 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.52 | 0 | 0 | 0.01 | 0.02583585 | 0 | 0 | 0 | 2.24 | 1 | 2.24 | 0.0001 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 18.7 | 1 | 18.7 | 0.01 | 0.02583585 | 0.483130395 | 0.004831304 | 0.0048 | 127 | 1 | 127 | 0.0001 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.17 | 0 | 0 | 0.01 | 0.02583585 | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.18 | 1 | 0.18 | 0.01 | 0.02583585 | 0.004650453 | 4.65045E-05 | 0.000047 | 2.33 | 1 | 2.33 | 0.0001 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.7 | 1 | 0.7 | 0.01 | 0.02583585 | 0.018085095 | 0.000180851 | 0.00018 | 7 | 1 | 7 | 0.0001 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.526 | 0 | 0 | 0.01 | 0.02583585 | 0 | 0 | 0 | 5 | 1 | 5 | 0.0001 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 13.2 | 1 | 13.2 | 0.01 | 0.02583585 | 0.34103322 | 0.003410332 | 0.0034 | 113.5 | 1 | 113.5 | 0.0001 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.01 | 0.02583585 | | | | | | | 0.0001 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 6.86 | 1 | 6.86 | 0.01 | 0.02583585 | 0.177233931 | 0.001772339 | 0.0018 | 50.6 | 1 | 50.6 | 0.0001 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1.9 | 1 | 1.9 | 0.01 | 0.02583585 | 0.049088115 | 0.000490881 | 0.00049 | 9.79 | 1 | 9.79 | 0.0001 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 5.055 | 1 | 5.055 | 0.01 | 0.02583585 | 0.130600222 | 0.001306002 | 0.0013 | 19.6 | 1 | 19.6 | 0.0001 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.01 | 0.02583585 | | | | | | | 0.0001 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 3.8 | 1 | 3.8 | 0.01 | 0.02583585 | 0.09817623 | 0.000981762 | 0.00098 | 41 | 1 | 41 | 0.0001 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 13.9 | 1 | 13.9 | 0.01 | 0.02583585 | 0.359118315 | 0.003591183 | 0.0036 | 78 | 1 | 78 | 0.0001 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 5.4 | 1 | 5.4 | 0.01 | 0.02583585 | 0.13951359 | 0.001395136 | 0.0014 | 48 | 1 | 48 | 0.0001 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 2.7 | 1 | 2.7 | 0.01 | 0.02583585 | 0.069756795 | 0.000697568 | 0.0007 | 26 | 1 | 26 | 0.0001 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.186 | 0 | 0 | 0.01 | 0.02583585 | 0 | 0 | 0 | 26 | 1 | 26 | 0.0001 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 2.8 | 1 | 2.8 | 0.01 | 0.02583585 | 0.07234038 | 0.000723404 | 0.00072 | 23 | 1 | 23 | 0.0001 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 24.3 | 1 | 24.3 | 0.01 | 0.02583585 | 0.627811155 | 0.006278112 | 0.0063 | 216 | 1 | 216 | 0.0001 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.37 | 1 | 1.37 | 0.01 | 0.02583585 | 0.035395114 | 0.000353951 | 0.00035 | 16.3 | 1 | 16.3 | 0.0001 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.87 | 1 | 2.87 | 0.01 | 0.02583585 | 0.074148889 | 0.000741489 | 0.00074 | 31.4 | 1 | 31.4 | 0.0001 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 4.19 | 1 | 4.19 | 0.01 | 0.02583585 | 0.108252211 | 0.001082522 | 0.0011 | 42.5 | 1 | 42.5 | 0.0001 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 13.3 | 1 | 13.3 | 0.01 | 0.02583585 | 0.343616805 | 0.003436168 | 0.0034 | 89.1 | 1 | 89.1 | 0.0001 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 5.45 | 1 | 5.45 | 0.01 | 0.02583585 | 0.140805382 | 0.001408054 | 0.0014 | 51.6 | 1 | 51.6 | 0.0001 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 9.18 | 1 | 9.18 | 0.01 | 0.02583585 | 0.237173103 | 0.002371731 | 0.0024 | 90.2 | 1 | 90.2 | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 10.2 | 1 | 10.2 | 0.01 | NA | 0 | 0 | 0 | 72 | 1 | 72 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 3.66 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 61 | 1 | 61 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 8 | 1 | 8 | 0.01 | NA | 0 | 0 | 0 | 126 | 1 | 126 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 13.7 | 1 | 13.7 | 0.01 | NA | 0 | 0 | 0 | 87.8 | 1 | 87.8 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 11.7 | 1 | 11.7 | 0.01 | NA | 0 | 0 | 0 | 88.7 | 1 | 88.7 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7.46 | 1 | 7.46 | 0.01 | NA | 0 | 0 | 0 | 62.3 | 1 | 62.3 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 9.7 | 1 | 9.7 | 0.01 | NA | 0 | 0 | 0 | 68.3 | 1 | 68.3 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.1 | 1 | 1.1 | 0.01 | NA | 0 | 0 | 0 | 7.73 | 1 | 7.73 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 11.9 | 1 | 11.9 | 0.01 | NA | 0 | 0 | 0 | 72.5 | 1 | 72.5 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 9.01 | 1 | 9.01 | 0.01 | NA | 0 | 0 | 0 | 63.7 | 1 | 63.7 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 5.05 | 1 | 5.05 | 0.01 | NA | 0 | 0 | 0 | 55.3 | 1 | 55.3 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 4.83 | 1 | 4.83 | 0.01 | NA | 0 | 0 | 0 | 39.9 | 1 | 39.9 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 8.07 | 1 | 8.07 | 0.01 | NA | 0 | 0 | 0 | 52.5 | 1 | 52.5 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7.25 | 1 | 7.25 | 0.01 | NA | 0 | 0 | 0 | 59.5 | 1 | 59.5 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 5.7 | 1 | 5.7 | 0.01 | NA | 0 | 0 | 0 | 55.7 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 6.66 | 1 | 6.66 | 0.01 | NA | 0 | 0 | 0 | 60.7 | 1 | 60.7 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.77 | 1 | 2.77 | 0.01 | NA | 0 | 0 | 0 | 23 | 1 | 23 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.78 | 1 | 2.78 | 0.01 | NA | 0 | 0 | 0 | 19 | 1 | 19 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 16.4 | 1 | 16.4 | 0.01 | NA | 0 | 0 | 0 | 141 | 1 | 141 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 2.84 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 28.6 | 0 | 0 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.87 | 1 | 3.87 | 0.01 | NA | 0 | 0 | 0 | 33 | 1 | 33 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6.25 | 1 | 6.25 | 0.01 | NA | 0 | 0 | 0 | 55.3 | 1 | 55.3 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 3.07 | 1 | 3.07 | 0.01 | NA | 0 | 0 | 0 | 25.1 | 1 | 25.1 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 4.39 | 1 | 4.39 | 0.01 | NA | 0 | 0 | 0 | 33.7 | 1 | 33.7 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 9.65 | 1 | 9.65 | 0.01 | NA | 0 | 0 | 0 | 75.4 | 1 | 75.4 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 6.68 | 1 | 6.68 | 0.01 | NA | 0 | 0 | 0 | 70.3 | 1 | 70.3 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 11.7 | 1 | 11.7 | 0.01 | NA | 0 | 0 | 0 | 92.6 | 1 | 92.6 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 12.8 | 1 | 12.8 | 0.01 | NA | 0 | 0 | 0 | 122 | 1 | 122 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 3.52 | 1 | 3.52 | 0.01 | NA | 0 | 0 | 0 | 24.7 | 1 | 24.7 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 7.86 | 1 | 7.86 | 0.01 | NA | 0 | 0 | 0 | 58.3 | 1 | 58.3 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 9.76 | 1 | 9.76 | 0.01 | NA | 0 | 0 | 0 | 83.2 | 1 | 83.2 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 8.7 | 1 | 8.7 | 0.01 | NA | 0 | 0 | 0 | 252 | 1 | 252 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 11.4 | 1 | 11.4 | 0.01 | NA | 0 | 0 | 0 | 77.2 | 1 | 77.2 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 4.65 | 1 | 4.65 | 0.01 | NA | 0 | 0 | 0 | 37.2 | 1 | 37.2 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 10.7 | 1 | 10.7 | 0.01 | NA | 0 | 0 | 0 | 85.5 | 1 | 85.5 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 8.9 | 1 | 8.9 | 0.01 | NA | 0 | 0 | 0 | 66.3 | 1 | 66.3 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 12.5 | 1 | 12.5 | 0.01 | NA | 0 | 0 | 0 | 99.7 | 1 | 99.7 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8.51 | 1 | 8.51 | 0.01 | NA | 0 | 0 | 0 | 102 | 1 | 102 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 15.8 | 1 | 15.8 | 0.01 | NA | 0 | 0 | 0 | 135 | 1 | 135 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 13.5 | 1 | 13.5 | 0.01 | NA | 0 | 0 | 0 | 95 | 1 | 95 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 14.4 | 1 | 14.4 | 0.01 | NA | 0 | 0 | 0 | 139 | 1 | 139 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3.84 | 1 | 3.84 | 0.01 | NA | 0 | 0 | 0 | 34.7 | 1 | 34.7 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 15.1 | 1 | 15.1 | 0.01 | NA | 0 | 0 | 0 | 121 | 1 | 121 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 12.3 | 1 | 12.3 | 0.01 | NA | 0 | 0 | 0 | 121 | 1 | 121 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 6.14 | 1 | 6.14 | 0.01 | NA | 0 | 0 | 0 | 65.2 | 1 | 65.2 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 5.32 | 1 | 5.32 | 0.01 | NA | 0 | 0 | 0 | 47.3 | 1 | 47.3 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 8.86 | 1 | 8.86 | 0.01 | NA | 0 | 0 | 0 | 80.3 | 1 | 80.3 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 13.8 | 1 | 13.8 | 0.01 | NA | 0 | 0 | 0 | 106 | 1 | 106 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 10.9 | 1 | 10.9 | 0.01 | NA | 0 | 0 | 0 | 64.3 | 1 | 64.3 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 13.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 55.7 | 1 | 55.7 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 7.84 | 1 | 7.84 | 0.01 | NA | 0 | 0 | 0 | 62.2 | 1 | 62.2 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 54.5 | 1 | 54.5 | 0.01 | NA | 0 | 0 | 0 | 158 | 1 | 158 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 10.4 | 1 | 10.4 | 0.01 | NA | 0 | 0 | 0 | 93 | 1 | 93 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 13.8 | 1 | 13.8 | 0.01 | NA | 0 | 0 | 0 | 126 | 1 | 126 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 7.86 | 1 | 7.86 | 0.01 | NA | 0 | 0 | 0 | 62.9 | 1 | 62.9 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 9.55 | 1 | 9.55 | 0.01 | NA | 0 | 0 | 0 | 82 | 1 | 82 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 10.4 | 1 | 10.4 | 0.01 | NA | 0 | 0 | 0 | 111 | 1 | 111 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 4.43 | 1 | 4.43 | 0.01 | NA | 0 | 0 | 0 | 40.4 | 1 | 40.4 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 7.38 | 1 | 7.38 | 0.01 | NA | 0 | 0 | 0 | 67.7 | 1 | 67.7 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 15.2 | 1 | 15.2 | 0.01 | NA | 0 | 0 | 0 | 166 | 1 | 166 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 18 | 1 | 18 | 0.01 | NA | 0 | 0 | 0 | 106 | 1 | 106 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 7.15 | 1 | 7.15 | 0.01 | NA | 0 | 0 | 0 | 73.4 | 1 | 73.4 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 32.1 | 1 | 32.1 | 0.01 | NA | 0 | 0 | 0 | 237 | 1 | 237 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 3.4 | 1 | 3.4 | 0.01 | NA | 0 | 0 | 0 | 28.7 | 1 | 28.7 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4.89 | 1 | 4.89 | 0.01 | NA | 0 | 0 | 0 | 49 | 1 | 49 | 0.0001 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 10.3 | 1 | 10.3 | 0.01 | NA | 0 | 0 | 0 | 69 | 1 | 69 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1.8 | 1 | 1.8 | 0.01 | NA | 0 | 0 | 0 | 20 | 1 | 20 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.2 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 4.46 | 1 | 4.46 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.93 | 1 | 0.93 | 0.01 | NA | 0 | 0 | 0 | 9.74 | 1 | 9.74 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.25 | 1 | 0.25 | 0.01 | NA | 0 | 0 | 0 | 0.74 | 0 | 0 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 3.07 | 1 | 3.07 | 0.01 | NA | 0 | 0 | 0 | 29.8 | 1 | 29.8 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1.05 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 11 | 1 | 11 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3.4 | 1 | 3.4 | 0.01 | NA | 0 | 0 | 0 | 32 | 1 | 32 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 5.7 | 1 | 5.7 | 0.01 | NA | 0 | 0 | 0 | 50 | 1 | 50 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1.05 | 1 | 1.05 | 0.01 | NA | 0 | 0 | 0 | 8.5 | 1 | 8.5 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 2.15 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 15.7 | 1 | 15.7 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1.03 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 11.5 | 1 | 11.5 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.52 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 2.24 | 1 | 2.24 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 18.7 | 1 | 18.7 | 0.01 | NA | 0 | 0 | 0 | 127 | 1 | 127 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.17 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.18 | 1 | 0.18 | 0.01 | NA | 0 | 0 | 0 | 2.33 | 1 | 2.33 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.7 | 1 | 0.7 | 0.01 | NA | 0 | 0 | 0 | 7 | 1 | 7 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.526 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 5 | 1 | 5 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 13.2 | 1 | 13.2 | 0.01 | NA | 0 | 0 | 0 | 113.5 | 1 | 113.5 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 6.86 | 1 | 6.86 | 0.01 | NA | 0 | 0 | 0 | 50.6 | 1 | 50.6 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1.9 | 1 | 1.9 | 0.01 | NA | 0 | 0 | 0 | 9.79 | 1 | 9.79 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 5.055 | 1 | 5.055 | 0.01 | NA | 0 | 0 | 0 | 19.6 | 1 | 19.6 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 3.8 | 1 | 3.8 | 0.01 | NA | 0 | 0 | 0 | 41 | 1 | 41 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 13.9 | 1 | 13.9 | 0.01 | NA | 0 | 0 | 0 | 78 | 1 | 78 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 5.4 | 1 | 5.4 | 0.01 | NA | 0 | 0 | 0 | 48 | 1 | 48 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 2.7 | 1 | 2.7 | 0.01 | NA | 0 | 0 | 0 | 26 | 1 | 26 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.186 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 26 | 1 | 26 | 0.0001 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 2.8 | 1 | 2.8 | 0.01 | NA | 0 | 0 | 0 | 23 | 1 | 23 | 0.0001 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 24.3 | 1 | 24.3 | 0.01 | NA | 0 | 0 | 0 | 216 | 1 | 216 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.37 | 1 | 1.37 | 0.01 | NA | 0 | 0 | 0 | 16.3 | 1 | 16.3 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.87 | 1 | 2.87 | 0.01 | NA | 0 | 0 | 0 | 31.4 | 1 | 31.4 | 0.0001 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 4.19 | 1 | 4.19 | 0.01 | NA | 0 | 0 | 0 | 42.5 | 1 | 42.5 | 0.0001 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 13.3 | 1 | 13.3 | 0.01 | NA | 0 | 0 | 0 | 89.1 | 1 | 89.1 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 5.45 | 1 | 5.45 | 0.01 | NA | 0 | 0 | 0 | 51.6 | 1 | 51.6 | 0.0001 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 9.18 | 1 | 9.18 | 0.01 | NA | 0 | 0 | 0 | 90.2 | 1 | 90.2 | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 10.2 | 1 | 10.2 | 0.01 | 0.029052632 | 0.296336842 | 0.002963368 | 0.003 | 72 | 1 | 72 | 0.0001 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 3.66 | 0 | 0 | 0.01 | 0.029052632 | 0 | 0 | 0 | 61 | 1 | 61 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 8 | 1 | 8 | 0.01 | 0.029052632 | 0.232421053 | 0.002324211 | 0.0023 | 126 | 1 | 126 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 13.7 | 1 | 13.7 | 0.01 | 0.029052632 | 0.398021053 | 0.003980211 | 0.004 | 87.8 | 1 | 87.8 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 11.7 | 1 | 11.7 | 0.01 | 0.029052632 | 0.339915789 | 0.003399158 | 0.0034 | 88.7 | 1 | 88.7 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7.46 | 1 | 7.46 | 0.01 | 0.029052632 | 0.216732632 | 0.002167326 | 0.0022 | 62.3 | 1 | 62.3 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 9.7 | 1 | 9.7 | 0.01 | 0.029052632 | 0.281810526 | 0.002818105 | 0.0028 | 68.3 | 1 | 68.3 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1.1 | 1 | 1.1 | 0.01 | 0.029052632 | 0.031957895 | 0.000319579 | 0.00032 | 7.73 | 1 | 7.73 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 11.9 | 1 | 11.9 | 0.01 | 0.029052632 | 0.345726316 | 0.003457263 | 0.0035 | 72.5 | 1 | 72.5 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 9.01 | 1 | 9.01 | 0.01 | 0.029052632 | 0.261764211 | 0.002617642 | 0.0026 | 63.7 | 1 | 63.7 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 5.05 | 1 | 5.05 | 0.01 | 0.029052632 | 0.146715789 | 0.001467158 | 0.0015 | 55.3 | 1 | 55.3 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 4.83 | 1 | 4.83 | 0.01 | 0.029052632 | 0.140324211 | 0.001403242 | 0.0014 | 39.9 | 1 | 39.9 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 8.07 | 1 | 8.07 | 0.01 | 0.029052632 | 0.234454737 | 0.002344547 | 0.0023 | 52.5 | 1 | 52.5 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7.25 | 1 | 7.25 | 0.01 | 0.029052632 | 0.210631579 | 0.002106316 | 0.0021 | 59.5 | 1 | 59.5 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | | | | 0.01 | 0.029052632 | | | | | | | 0.0001 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 5.7 | 1 | 5.7 | 0.01 | 0.029052632 | 0.1656 | 0.001656 | 0.0017 | 55.7 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 6.66 | 1 | 6.66 | 0.01 | 0.029052632 | 0.193490526 | 0.001934905 | 0.0019 | 60.7 | 1 | 60.7 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2.77 | 1 | 2.77 | 0.01 | 0.029052632 | 0.080475789 | 0.000804758 | 0.0008 | 23 | 1 | 23 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 2.78 | 1 | 2.78 | 0.01 | 0.029052632 | 0.080766316 | 0.000807663 | 0.00081 | 19 | 1 | 19 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 16.4 | 1 | 16.4 | 0.01 | 0.029052632 | 0.476463158 | 0.004764632 | 0.0048 | 141 | 1 | 141 | 0.0001 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 2.84 | 0 | 0 | 0.01 | 0.029052632 | 0 | 0 | 0 | 28.6 | 0 | 0 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3.87 | 1 | 3.87 | 0.01 | 0.029052632 | 0.112433684 | 0.001124337 | 0.0011 | 33 | 1 | 33 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6.25 | 1 | 6.25 | 0.01 | 0.029052632 | 0.181578947 | 0.001815789 | 0.0018 | 55.3 | 1 | 55.3 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 3.07 | 1 | 3.07 | 0.01 | 0.029052632 | 0.089191579 | 0.000891916 | 0.00089 | 25.1 | 1 | 25.1 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 4.39 | 1 | 4.39 | 0.01 | 0.029052632 | 0.127541053 | 0.001275411 | 0.0013 | 33.7 | 1 | 33.7 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 9.65 | 1 | 9.65 | 0.01 | 0.029052632 | 0.280357895 | 0.002803579 | 0.0028 | 75.4 | 1 | 75.4 | 0.0001 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 6.68 | 1 | 6.68 | 0.01 | 0.029052632 | 0.194071579 | 0.001940716 | 0.0019 | 70.3 | 1 | 70.3 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 11.7 | 1 | 11.7 | 0.01 | 0.029052632 | 0.339915789 | 0.003399158 | 0.0034 | 92.6 | 1 | 92.6 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 12.8 | 1 | 12.8 | 0.01 | 0.029052632 | 0.371873684 | 0.003718737 | 0.0037 | 122 | 1 | 122 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 3.52 | 1 | 3.52 | 0.01 | 0.029052632 | 0.102265263 | 0.001022653 | 0.001 | 24.7 | 1 | 24.7 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 7.86 | 1 | 7.86 | 0.01 | 0.029052632 | 0.228353684 | 0.002283537 | 0.0023 | 58.3 | 1 | 58.3 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 9.76 | 1 | 9.76 | 0.01 | 0.029052632 | 0.283553684 | 0.002835537 | 0.0028 | 83.2 | 1 | 83.2 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 8.7 | 1 | 8.7 | 0.01 | 0.029052632 | 0.252757895 | 0.002527579 | 0.0025 | 252 | 1 | 252 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 11.4 | 1 | 11.4 | 0.01 | 0.029052632 | 0.3312 | 0.003312 | 0.0033 | 77.2 | 1 | 77.2 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 4.65 | 1 | 4.65 | 0.01 | 0.029052632 | 0.135094737 | 0.001350947 | 0.0014 | 37.2 | 1 | 37.2 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 10.7 | 1 | 10.7 | 0.01 | 0.029052632 | 0.310863158 | 0.003108632 | 0.0031 | 85.5 | 1 | 85.5 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 8.9 | 1 | 8.9 | 0.01 | 0.029052632 | 0.258568421 | 0.002585684 | 0.0026 | 66.3 | 1 | 66.3 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.01 | 0.029052632 | | | | | | | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 12.5 | 1 | 12.5 | 0.01 | 0.029052632 | 0.363157895 | 0.003631579 | 0.0036 | 99.7 | 1 | 99.7 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8.51 | 1 | 8.51 | 0.01 | 0.029052632 | 0.247237895 | 0.002472379 | 0.0025 | 102 | 1 | 102 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 15.8 | 1 | 15.8 | 0.01 | 0.029052632 | 0.459031579 | 0.004590316 | 0.0046 | 135 | 1 | 135 | 0.0001 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 13.5 | 1 | 13.5 | 0.01 | 0.029052632 | 0.392210526 | 0.003922105 | 0.0039 | 95 | 1 | 95 | 0.0001 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 14.4 | 1 | 14.4 | 0.01 | 0.029052632 | 0.418357895 | 0.004183579 | 0.0042 | 139 | 1 | 139 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3.84 | 1 | 3.84 | 0.01 | 0.029052632 | 0.111562105 | 0.001115621 | 0.0011 | 34.7 | 1 | 34.7 | 0.0001 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 15.1 | 1 | 15.1 | 0.01 | 0.029052632 | 0.438694737 | 0.004386947 | 0.0044 | 121 | 1 | 121 | 0.0001 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 12.3 | 1 | 12.3 | 0.01 | 0.029052632 | 0.357347368 | 0.003573474 | 0.0036 | 121 | 1 | 121 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 6.14 | 1 | 6.14 | 0.01 | 0.029052632 | 0.178383158 | 0.001783832 | 0.0018 | 65.2 | 1 | 65.2 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 5.32 | 1 | 5.32 | 0.01 | 0.029052632 | 0.15456 | 0.0015456 | 0.0015 | 47.3 | 1 | 47.3 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 8.86 | 1 | 8.86 | 0.01 | 0.029052632 | 0.257406316 | 0.002574063 | 0.0026 | 80.3 | 1 | 80.3 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 13.8 | 1 | 13.8 | 0.01 | 0.029052632 | 0.400926316 | 0.004009263 | 0.004 | 106 | 1 | 106 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 10.9 | 1 | 10.9 | 0.01 | 0.029052632 | 0.316673684 | 0.003166737 | 0.0032 | 64.3 | 1 | 64.3 | 0.0001 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 13.5 | 0 | 0 | 0.01 | 0.029052632 | 0 | 0 | 0 | 55.7 | 1 | 55.7 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 7.84 | 1 | 7.84 | 0.01 | 0.029052632 | 0.227772632 | 0.002277726 | 0.0023 | 62.2 | 1 | 62.2 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 54.5 | 1 | 54.5 | 0.01 | 0.029052632 | 1.583368421 | 0.015833684 | 0.016 | 158 | 1 | 158 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | | | | 0.01 | 0.029052632 | | | | | | | 0.0001 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 10.4 | 1 | 10.4 | 0.01 | 0.029052632 | 0.302147368 | 0.003021474 | 0.003 | 93 | 1 | 93 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 13.8 | 1 | 13.8 | 0.01 | 0.029052632 | 0.400926316 | 0.004009263 | 0.004 | 126 | 1 | 126 | 0.0001 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 7.86 | 1 | 7.86 | 0.01 | 0.029052632 | 0.228353684 | 0.002283537 | 0.0023 | 62.9 | 1 | 62.9 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 9.55 | 1 | 9.55 | 0.01 | 0.029052632 | 0.277452632 | 0.002774526 | 0.0028 | 82 | 1 | 82 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 10.4 | 1 | 10.4 | 0.01 | 0.029052632 | 0.302147368 | 0.003021474 | 0.003 | 111 | 1 | 111 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 4.43 | 1 | 4.43 | 0.01 | 0.029052632 | 0.128703158 | 0.001287032 | 0.0013 | 40.4 | 1 | 40.4 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 7.38 | 1 | 7.38 | 0.01 | 0.029052632 | 0.214408421 | 0.002144084 | 0.0021 | 67.7 | 1 | 67.7 | 0.0001 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 15.2 | 1 | 15.2 | 0.01 | 0.029052632 | 0.4416 | 0.004416 | 0.0044 | 166 | 1 | 166 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 18 | 1 | 18 | 0.01 | 0.029052632 | 0.522947368 | 0.005229474 | 0.0052 | 106 | 1 | 106 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 7.15 | 1 | 7.15 | 0.01 | 0.029052632 | 0.207726316 | 0.002077263 | 0.0021 | 73.4 | 1 | 73.4 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 32.1 | 1 | 32.1 | 0.01 | 0.029052632 | 0.932589474 | 0.009325895 | 0.0093 | 237 | 1 | 237 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 3.4 | 1 | 3.4 | 0.01 | 0.029052632 | 0.098778947 | 0.000987789 | 0.00099 | 28.7 | 1 | 28.7 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4.89 | 1 | 4.89 | 0.01 | 0.029052632 | 0.142067368 | 0.001420674 | 0.0014 | 49 | 1 | 49 | 0.0001 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 10.3 | 1 | 10.3 | 0.01 | 0.029052632 | 0.299242105 | 0.002992421 | 0.003 | 69 | 1 | 69 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1.8 | 1 | 1.8 | 0.01 | 0.029052632 | 0.052294737 | 0.000522947 | 0.00052 | 20 | 1 | 20 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.2 | 0 | 0 | 0.01 | 0.029052632 | 0 | 0 | 0 | 4.46 | 1 | 4.46 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.93 | 1 | 0.93 | 0.01 | 0.029052632 | 0.027018947 | 0.000270189 | 0.00027 | 9.74 | 1 | 9.74 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.25 | 1 | 0.25 | 0.01 | 0.029052632 | 0.007263158 | 7.26316E-05 | 0.000073 | 0.74 | 0 | 0 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 3.07 | 1 | 3.07 | 0.01 | 0.029052632 | 0.089191579 | 0.000891916 | 0.00089 | 29.8 | 1 | 29.8 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1.05 | 0 | 0 | 0.01 | 0.029052632 | 0 | 0 | 0 | 11 | 1 | 11 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3.4 | 1 | 3.4 | 0.01 | 0.029052632 | 0.098778947 | 0.000987789 | 0.00099 | 32 | 1 | 32 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 5.7 | 1 | 5.7 | 0.01 | 0.029052632 | 0.1656 | 0.001656 | 0.0017 | 50 | 1 | 50 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1.05 | 1 | 1.05 | 0.01 | 0.029052632 | 0.030505263 | 0.000305053 | 0.00031 | 8.5 | 1 | 8.5 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | 0.01 | 0.029052632 | | | | | | | 0.0001 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 2.15 | 0 | 0 | 0.01 | 0.029052632 | 0 | 0 | 0 | 15.7 | 1 | 15.7 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1.03 | 0 | 0 | 0.01 | 0.029052632 | 0 | 0 | 0 | 11.5 | 1 | 11.5 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.52 | 0 | 0 | 0.01 | 0.029052632 | 0 | 0 | 0 | 2.24 | 1 | 2.24 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 18.7 | 1 | 18.7 | 0.01 | 0.029052632 | 0.543284211 | 0.005432842 | 0.0054 | 127 | 1 | 127 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.17 | 0 | 0 | 0.01 | 0.029052632 | 0 | 0 | 0 | 2.2 | 1 | 2.2 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.18 | 1 | 0.18 | 0.01 | 0.029052632 | 0.005229474 | 5.22947E-05 | 0.000052 | 2.33 | 1 | 2.33 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.7 | 1 | 0.7 | 0.01 | 0.029052632 | 0.020336842 | 0.000203368 | 0.0002 | 7 | 1 | 7 | 0.0001 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.526 | 0 | 0 | 0.01 | 0.029052632 | 0 | 0 | 0 | 5 | 1 | 5 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 13.2 | 1 | 13.2 | 0.01 | 0.029052632 | 0.383494737 | 0.003834947 | 0.0038 | 113.5 | 1 | 113.5 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.01 | 0.029052632 | | | | | | | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 6.86 | 1 | 6.86 | 0.01 | 0.029052632 | 0.199301053 | 0.001993011 | 0.002 | 50.6 | 1 | 50.6 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1.9 | 1 | 1.9 | 0.01 | 0.029052632 | 0.0552 | 0.000552 | 0.00055 | 9.79 | 1 | 9.79 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 5.055 | 1 | 5.055 | 0.01 | 0.029052632 | 0.146861053 | 0.001468611 | 0.0015 | 19.6 | 1 | 19.6 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.01 | 0.029052632 | | | | | | | 0.0001 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 3.8 | 1 | 3.8 | 0.01 | 0.029052632 | 0.1104 | 0.001104 | 0.0011 | 41 | 1 | 41 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 13.9 | 1 | 13.9 | 0.01 | 0.029052632 | 0.403831579 | 0.004038316 | 0.004 | 78 | 1 | 78 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 5.4 | 1 | 5.4 | 0.01 | 0.029052632 | 0.156884211 | 0.001568842 | 0.0016 | 48 | 1 | 48 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 2.7 | 1 | 2.7 | 0.01 | 0.029052632 | 0.078442105 | 0.000784421 | 0.00078 | 26 | 1 | 26 | 0.0001 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.186 | 0 | 0 | 0.01 | 0.029052632 | 0 | 0 | 0 | 26 | 1 | 26 | 0.0001 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 2.8 | 1 | 2.8 | 0.01 | 0.029052632 | 0.081347368 | 0.000813474 | 0.00081 | 23 | 1 | 23 | 0.0001 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 24.3 | 1 | 24.3 | 0.01 | 0.029052632 | 0.705978947 | 0.007059789 | 0.0071 | 216 | 1 | 216 | 0.0001 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1.37 | 1 | 1.37 | 0.01 | 0.029052632 | 0.039802105 | 0.000398021 | 0.0004 | 16.3 | 1 | 16.3 | 0.0001 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2.87 | 1 | 2.87 | 0.01 | 0.029052632 | 0.083381053 | 0.000833811 | 0.00083 | 31.4 | 1 | 31.4 | 0.0001 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 4.19 | 1 | 4.19 | 0.01 | 0.029052632 | 0.121730526 | 0.001217305 | 0.0012 | 42.5 | 1 | 42.5 | 0.0001 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 13.3 | 1 | 13.3 | 0.01 | 0.029052632 | 0.3864 | 0.003864 | 0.0039 | 89.1 | 1 | 89.1 | 0.0001 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 5.45 | 1 | 5.45 | 0.01 | 0.029052632 | 0.158336842 | 0.001583368 | 0.0016 | 51.6 | 1 | 51.6 | 0.0001 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 9.18 | 1 | 9.18 | 0.01 | 0.029052632 | 0.266703158 | 0.002667032 | 0.0027 | 90.2 | 1 | 90.2 | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0001 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 43.8 | 1 | 43.8 | 0.01 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0001 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.44 | 1 | 0.44 | 0.01 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0001 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 6.43 | 1 | 6.43 | 0.01 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0001 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.66 | 1 | 0.66 | 0.01 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0001 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.686 | 1 | 0.686 | 0.01 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0001 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.978 | 1 | 0.978 | 0.01 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0001 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 5.27 | 1 | 5.27 | 0.01 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0001 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3.05 | 1 | 3.05 | 0.01 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0001 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3.08 | 1 | 3.08 | 0.01 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0001 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0001 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 43.8 | 1 | 43.8 | 0.01 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0001 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.44 | 1 | 0.44 | 0.01 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 6.43 | 1 | 6.43 | 0.01 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0001 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.66 | 1 | 0.66 | 0.01 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0001 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.686 | 1 | 0.686 | 0.01 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0001 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.978 | 1 | 0.978 | 0.01 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0001 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 5.27 | 1 | 5.27 | 0.01 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0001 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3.05 | 1 | 3.05 | 0.01 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0001 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3.08 | 1 | 3.08 | 0.01 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0001 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0001 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 43.8 | 1 | 43.8 | 0.01 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0001 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.44 | 1 | 0.44 | 0.01 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0001 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 6.43 | 1 | 6.43 | 0.01 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0001 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.66 | 1 | 0.66 | 0.01 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0001 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.686 | 1 | 0.686 | 0.01 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0001 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.978 | 1 | 0.978 | 0.01 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0001 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 5.27 | 1 | 5.27 | 0.01 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0001 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3.05 | 1 | 3.05 | 0.01 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0001 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3.08 | 1 | 3.08 | 0.01 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0001 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.01 | 0.979799536 | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0001 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 43.8 | 1 | 43.8 | 0.01 | 0.979799536 | 42.91521968 | 0.429152197 | 0.43 | 299 | 1 | 299 | 0.0001 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.44 | 1 | 0.44 | 0.01 | 0.979799536 | 0.431111796 | 0.004311118 | 0.0043 | 3.9 | 1 | 3.9 | 0.0001 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 6.43 | 1 | 6.43 | 0.01 | 0.979799536 | 6.300111018 | 0.06300111 | 0.063 | 48.5 | 1 | 48.5 | 0.0001 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.66 | 1 | 0.66 | 0.01 | 0.979799536 | 0.646667694 | 0.006466677 | 0.0065 | 5.56 | 1 | 5.56 | 0.0001 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.686 | 1 | 0.686 | 0.01 | 0.979799536 | 0.672142482 | 0.006721425 | 0.0067 | 2.89 | 1 | 2.89 | 0.0001 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.978 | 1 | 0.978 | 0.01 | 0.979799536 | 0.958243946 | 0.009582439 | 0.0096 | 7.71 | 1 | 7.71 | 0.0001 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 5.27 | 1 | 5.27 | 0.01 | 0.979799536 | 5.163543556 | 0.051635436 | 0.052 | 61.4 | 1 | 61.4 | 0.0001 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3.05 | 1 | 3.05 | 0.01 | 0.979799536 | 2.988388585 | 0.029883886 | 0.03 | 26.1 | 1 | 26.1 | 0.0001 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3.08 | 1 | 3.08 | 0.01 | 0.979799536 | 3.017782571 | 0.030177826 | 0.03 | 16.15 | 1 | 16.15 | 0.0001 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.01 | 0.979799536 | | | | | | | 0.0001 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 0.979799536 | | | | | | | 0.0001 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 0.979799536 | | | | | | | 0.0001 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 0.979799536 | | | | | | | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0001 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 43.8 | 1 | 43.8 | 0.01 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0001 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.44 | 1 | 0.44 | 0.01 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0001 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 6.43 | 1 | 6.43 | 0.01 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0001 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.66 | 1 | 0.66 | 0.01 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0001 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.686 | 1 | 0.686 | 0.01 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0001 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.978 | 1 | 0.978 | 0.01 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0001 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 5.27 | 1 | 5.27 | 0.01 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0001 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3.05 | 1 | 3.05 | 0.01 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0001 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3.08 | 1 | 3.08 | 0.01 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0001 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0001 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 43.8 | 1 | 43.8 | 0.01 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0001 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.44 | 1 | 0.44 | 0.01 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0001 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 6.43 | 1 | 6.43 | 0.01 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0001 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.44 | 1 | 0.44 | 0.01 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0001 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 6.43 | 1 | 6.43 | 0.01 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0001 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.66 | 1 | 0.66 | 0.01 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0001 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.686 | 1 | 0.686 | 0.01 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0001 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.978 | 1 | 0.978 | 0.01 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0001 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 5.27 | 1 | 5.27 | 0.01 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0001 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3.05 | 1 | 3.05 | 0.01 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0001 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3.08 | 1 | 3.08 | 0.01 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0001 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0001 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 43.8 | 1 | 43.8 | 0.01 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0001 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.44 | 1 | 0.44 | 0.01 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0001 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 6.43 | 1 | 6.43 | 0.01 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0001 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.66 | 1 | 0.66 | 0.01 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0001 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.686 | 1 | 0.686 | 0.01 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0001 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.978 | 1 | 0.978 | 0.01 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0001 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 5.27 | 1 | 5.27 | 0.01 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0001 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3.05 | 1 | 3.05 | 0.01 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0001 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3.08 | 1 | 3.08 | 0.01 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0001 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0001 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 43.8 | 1 | 43.8 | 0.01 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0001 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.44 | 1 | 0.44 | 0.01 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0001 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 6.43 | 1 | 6.43 | 0.01 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0001 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.66 | 1 | 0.66 | 0.01 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0001 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.686 | 1 | 0.686 | 0.01 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0001 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.978 | 1 | 0.978 | 0.01 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0001 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 5.27 | 1 | 5.27 | 0.01 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0001 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3.05 | 1 | 3.05 | 0.01 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0001 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3.08 | 1 | 3.08 | 0.01 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0001 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0001 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 43.8 | 1 | 43.8 | 0.01 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0001 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.44 | 1 | 0.44 | 0.01 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0001 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 6.43 | 1 | 6.43 | 0.01 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0001 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.66 | 1 | 0.66 | 0.01 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0001 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.686 | 1 | 0.686 | 0.01 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0001 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.978 | 1 | 0.978 | 0.01 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0001 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 5.27 | 1 | 5.27 | 0.01 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0001 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3.05 | 1 | 3.05 | 0.01 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0001 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3.08 | 1 | 3.08 | 0.01 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0001 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0001 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 43.8 | 1 | 43.8 | 0.01 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0001 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.44 | 1 | 0.44 | 0.01 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0001 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 6.43 | 1 | 6.43 | 0.01 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0001 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.66 | 1 | 0.66 | 0.01 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0001 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.686 | 1 | 0.686 | 0.01 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0001 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.978 | 1 | 0.978 | 0.01 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0001 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 5.27 | 1 | 5.27 | 0.01 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0001 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3.05 | 1 | 3.05 | 0.01 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0001 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3.08 | 1 | 3.08 | 0.01 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0001 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0001 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 43.8 | 1 | 43.8 | 0.01 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0001 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.44 | 1 | 0.44 | 0.01 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0001 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 6.43 | 1 | 6.43 | 0.01 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0001 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.66 | 1 | 0.66 | 0.01 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0001 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.686 | 1 | 0.686 | 0.01 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0001 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.978 | 1 | 0.978 | 0.01 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0001 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 5.27 | 1 | 5.27 | 0.01 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0001 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3.05 | 1 | 3.05 | 0.01 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0001 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3.08 | 1 | 3.08 | 0.01 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0001 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.0001 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.015614676 | 1.12425669 | 0.000112426 | 0.00011 | 100000 | 1 | 100000 | 0.0001 | 0.541795666 | 54179.56656 | 5.417956656 | 5.4 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.015614676 | 0.952495251 | 9.52495E-05 | 0.000095 | 33000 | 1 | 33000 | 0.0001 | 0.541795666 | 17879.25697 | 1.787925697 | 1.8 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.015614676 | 1.967449207 | 0.000196745 | 0.0002 | 49000 | 1 | 49000 | 0.0001 | 0.541795666 | 26547.98762 | 2.654798762 | 2.7 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.015614676 | 1.370968574 | 0.000137097 | 0.00014 | 93000 | 1 | 93000 | 0.0001 | 0.541795666 | 50386.9969 | 5.03869969 | 5 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.015614676 | 1.385021783 | 0.000138502 | 0.00014 | 83000 | 1 | 83000 | 0.0001 | 0.541795666 | 44969.04025 | 4.496904025 | 4.5 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.015614676 | 0.97279433 | 9.72794E-05 | 0.000097 | 53000 | 1 | 53000 | 0.0001 | 0.541795666 | 28715.17028 | 2.871517028 | 2.9 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.015614676 | 1.066482388 | 0.000106648 | 0.00011 | 72000 | 1 | 72000 | 0.0001 | 0.541795666 | 39009.28793 | 3.900928793 | 3.9 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.015614676 | 0.120701447 | 1.20701E-05 | 0.000012 | 13000 | 1 | 13000 | 0.0001 | 0.541795666 | 7043.343653 | 0.704334365 | 0.7 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.015614676 | 1.132064028 | 0.000113206 | 0.00011 | 140000 | 1 | 140000 | 0.0001 | 0.541795666 | 75851.39319 | 7.585139319 | 7.6 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.015614676 | 0.994654877 | 9.94655E-05 | 0.000099 | 47000 | 1 | 47000 | 0.0001 | 0.541795666 | 25464.39628 | 2.546439628 | 2.5 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.015614676 | 0.863491596 | 8.63492E-05 | 0.000086 | 46000 | 1 | 46000 | 0.0001 | 0.541795666 | 24922.60062 | 2.492260062 | 2.5 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.015614676 | 0.623025582 | 6.23026E-05 | 0.000062 | 51000 | 1 | 51000 | 0.0001 | 0.541795666 | 27631.57895 | 2.763157895 | 2.8 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.015614676 | 0.819770503 | 8.19771E-05 | 0.000082 | 88000 | 1 | 88000 | 0.0001 | 0.541795666 | 47678.01858 | 4.767801858 | 4.8 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.015614676 | 0.929073237 | 9.29073E-05 | 0.000093 | 67000 | 1 | 67000 | 0.0001 | 0.541795666 | 36300.3096 | 3.63003096 | 3.6 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.015614676 | | | | 15000 | 1 | 15000 | 0.0001 | 0.541795666 | 8126.934985 | 0.812693498 | 0.81 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.015614676 | 0 | 0 | 0 | 55000 | 1 | 55000 | 0.0001 | 0.541795666 | 29798.76161 | 2.979876161 | 3 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.015614676 | 0.947810848 | 9.47811E-05 | 0.000095 | 28000 | 1 | 28000 | 0.0001 | 0.541795666 | 15170.27864 | 1.517027864 | 1.5 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.015614676 | 0.359137554 | 3.59138E-05 | 0.000036 | 15000 | 1 | 15000 | 0.0001 | 0.541795666 | 8126.934985 | 0.812693498 | 0.81 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.015614676 | 0.296678849 | 2.96679E-05 | 0.00003 | 12000 | 1 | 12000 | 0.0001 | 0.541795666 | 6501.547988 | 0.650154799 | 0.65 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.015614676 | 2.201669351 | 0.000220167 | 0.00022 | 130000 | 1 | 130000 | 0.0001 | 0.541795666 | 70433.43653 | 7.043343653 | 7 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.015614676 | 0 | 0 | 0 | 19000 | 1 | 19000 | 0.0001 | 0.541795666 | 10294.11765 | 1.029411765 | 1 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.015614676 | 0.515284316 | 5.15284E-05 | 0.000052 | 13000 | 1 | 13000 | 0.0001 | 0.541795666 | 7043.343653 | 0.704334365 | 0.7 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.015614676 | 0.863491596 | 8.63492E-05 | 0.000086 | 60000 | 1 | 60000 | 0.0001 | 0.541795666 | 32507.73994 | 3.250773994 | 3.3 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.015614676 | 0.391928374 | 3.91928E-05 | 0.000039 | 38000 | 1 | 38000 | 0.0001 | 0.541795666 | 20588.23529 | 2.058823529 | 2.1 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.015614676 | 0.52621459 | 5.26215E-05 | 0.000053 | 69000 | 1 | 69000 | 0.0001 | 0.541795666 | 37383.90093 | 3.738390093 | 3.7 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.015614676 | 1.177346589 | 0.000117735 | 0.00012 | 120000 | 1 | 120000 | 0.0001 | 0.541795666 | 65015.47988 | 6.501547988 | 6.5 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0.015614676 | 1.09771174 | 0.000109771 | 0.00011 | 22000 | 1 | 22000 | 0.0001 | 0.541795666 | 11919.50464 | 1.191950464 | 1.2 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.015614676 | 1.44591902 | 0.000144592 | 0.00014 | 67000 | 1 | 67000 | 0.0001 | 0.541795666 | 36300.3096 | 3.63003096 | 3.6 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.015614676 | 1.904990502 | 0.000190499 | 0.00019 | 88000 | 1 | 88000 | 0.0001 | 0.541795666 | 47678.01858 | 4.767801858 | 4.8 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.015614676 | 0.385682503 | 3.85683E-05 | 0.000039 | 13000 | 1 | 13000 | 0.0001 | 0.541795666 | 7043.343653 | 0.704334365 | 0.7 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.015614676 | 0.910335625 | 9.10336E-05 | 0.000091 | 22000 | 1 | 22000 | 0.0001 | 0.541795666 | 11919.50464 | 1.191950464 | 1.2 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.015614676 | 1.299141064 | 0.000129914 | 0.00013 | 89000 | 1 | 89000 | 0.0001 | 0.541795666 | 48219.81424 | 4.821981424 | 4.8 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.015614676 | 3.934898414 | 0.00039349 | 0.00039 | 13000 | 1 | 13000 | 0.0001 | 0.541795666 | 7043.343653 | 0.704334365 | 0.7 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.015614676 | 1.205453006 | 0.000120545 | 0.00012 | 86000 | 1 | 86000 | 0.0001 | 0.541795666 | 46594.42724 | 4.659442724 | 4.7 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.015614676 | 0.580865956 | 5.80866E-05 | 0.000058 | 39000 | 1 | 39000 | 0.0001 | 0.541795666 | 21130.03096 | 2.113003096 | 2.1 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.015614676 | 1.335054819 | 0.000133505 | 0.00013 | 100000 | 1 | 100000 | 0.0001 | 0.541795666 | 54179.56656 | 5.417956656 | 5.4 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.015614676 | 1.035253035 | 0.000103525 | 0.0001 | 94500 | 1 | 94500 | 0.0001 | 0.541795666 | 51199.6904 | 5.11996904 | 5.1 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0.015614676 | | | | | | | 0.0001 | 0.541795666 | | | |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.015614676 | 1.556783222 | 0.000155678 | 0.00016 | 95000 | 1 | 95000 | 0.0001 | 0.541795666 | 51470.58824 | 5.147058824 | 5.1 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.015614676 | 1.592696977 | 0.00015927 | 0.00016 | 120000 | 1 | 120000 | 0.0001 | 0.541795666 | 65015.47988 | 6.501547988 | 6.5 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 0.015614676 | 2.107981293 | 0.000210798 | 0.00021 | 73000 | 1 | 73000 | 0.0001 | 0.541795666 | 39551.08359 | 3.955108359 | 4 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.015614676 | 1.483394243 | 0.000148339 | 0.00015 | 52000 | 1 | 52000 | 0.0001 | 0.541795666 | 28173.37461 | 2.817337461 | 2.8 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.015614676 | 2.170439998 | 0.000217044 | 0.00022 | 95000 | 1 | 95000 | 0.0001 | 0.541795666 | 51470.58824 | 5.147058824 | 5.1 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.015614676 | 0.541829266 | 5.41829E-05 | 0.000054 | 13000 | 1 | 13000 | 0.0001 | 0.541795666 | 7043.343653 | 0.704334365 | 0.7 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.015614676 | 1.889375826 | 0.000188938 | 0.00019 | 56000 | 1 | 56000 | 0.0001 | 0.541795666 | 30340.55728 | 3.034055728 | 3 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.015614676 | 1.889375826 | 0.000188938 | 0.00019 | 40000 | 1 | 40000 | 0.0001 | 0.541795666 | 21671.82663 | 2.167182663 | 2.2 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.015614676 | 1.018076891 | 0.000101808 | 0.0001 | 20000 | 1 | 20000 | 0.0001 | 0.541795666 | 10835.91331 | 1.083591331 | 1.1 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.015614676 | 0.738574186 | 7.38574E-05 | 0.000074 | 25000 | 1 | 25000 | 0.0001 | 0.541795666 | 13544.89164 | 1.354489164 | 1.4 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.015614676 | 1.253858503 | 0.000125386 | 0.00013 | 45000 | 1 | 45000 | 0.0001 | 0.541795666 | 24380.80495 | 2.438080495 | 2.4 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.015614676 | 1.655155682 | 0.000165516 | 0.00017 | 48000 | 1 | 48000 | 0.0001 | 0.541795666 | 26006.19195 | 2.600619195 | 2.6 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.015614676 | 1.004023683 | 0.000100402 | 0.0001 | 39000 | 1 | 39000 | 0.0001 | 0.541795666 | 21130.03096 | 2.113003096 | 2.1 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.015614676 | 0.869737467 | 8.69737E-05 | 0.000087 | 12000 | 1 | 12000 | 0.0001 | 0.541795666 | 6501.547988 | 0.650154799 | 0.65 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.015614676 | 0.971232863 | 9.71233E-05 | 0.000097 | 55000 | 1 | 55000 | 0.0001 | 0.541795666 | 29798.76161 | 2.979876161 | 3 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.015614676 | 2.467118847 | 0.000246712 | 0.00025 | 32000 | 1 | 32000 | 0.0001 | 0.541795666 | 17337.4613 | 1.73374613 | 1.7 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.015614676 | | | | 31000 | 1 | 31000 | 0.0001 | 0.541795666 | 16795.66563 | 1.679566563 | 1.7 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.015614676 | 1.452164891 | 0.000145216 | 0.00015 | 67000 | 1 | 67000 | 0.0001 | 0.541795666 | 36300.3096 | 3.63003096 | 3.6 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.015614676 | 1.967449207 | 0.000196745 | 0.0002 | 64000 | 1 | 64000 | 0.0001 | 0.541795666 | 34674.9226 | 3.46749226 | 3.5 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.015614676 | 0.982163136 | 9.82163E-05 | 0.000098 | 44000 | 1 | 44000 | 0.0001 | 0.541795666 | 23839.00929 | 2.383900929 | 2.4 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.015614676 | 1.280403452 | 0.00012804 | 0.00013 | 40000 | 1 | 40000 | 0.0001 | 0.541795666 | 21671.82663 | 2.167182663 | 2.2 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.015614676 | 1.733229063 | 0.000173323 | 0.00017 | 38000 | 1 | 38000 | 0.0001 | 0.541795666 | 20588.23529 | 2.058823529 | 2.1 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.015614676 | 0.63083292 | 6.30833E-05 | 0.000063 | 20000 | 1 | 20000 | 0.0001 | 0.541795666 | 10835.91331 | 1.083591331 | 1.1 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.015614676 | 1.057113582 | 0.000105711 | 0.00011 | 25000 | 1 | 25000 | 0.0001 | 0.541795666 | 13544.89164 | 1.354489164 | 1.4 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.015614676 | 2.592036257 | 0.000259204 | 0.00026 | 130000 | 1 | 130000 | 0.0001 | 0.541795666 | 70433.43653 | 7.043343653 | 7 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.015614676 | 1.655155682 | 0.000165516 | 0.00017 | 92000 | 1 | 92000 | 0.0001 | 0.541795666 | 49845.20124 | 4.984520124 | 5 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.015614676 | 1.146117237 | 0.000114612 | 0.00011 | 28000 | 1 | 28000 | 0.0001 | 0.541795666 | 15170.27864 | 1.517027864 | 1.5 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.015614676 | 3.700678271 | 0.000370068 | 0.00037 | 95000 | 1 | 95000 | 0.0001 | 0.541795666 | 51470.58824 | 5.147058824 | 5.1 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.015614676 | 0.448141208 | 4.48141E-05 | 0.000045 | 22000 | 1 | 22000 | 0.0001 | 0.541795666 | 11919.50464 | 1.191950464 | 1.2 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.015614676 | 0.765119136 | 7.65119E-05 | 0.000077 | 41000 | 1 | 41000 | 0.0001 | 0.541795666 | 22213.62229 | 2.221362229 | 2.2 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.015614676 | 1.077412661 | 0.000107741 | 0.00011 | 45000 | 1 | 45000 | 0.0001 | 0.541795666 | 24380.80495 | 2.438080495 | 2.4 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.015614676 | 0.312293525 | 3.12294E-05 | 0.000031 | 3100 | 1 | 3100 | 0.0001 | 0.541795666 | 1679.566563 | 0.167956656 | 0.17 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.015614676 | 0.069641456 | 6.96415E-06 | 0.000007 | 1400 | 0 | 0 | 0.0001 | 0.541795666 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.015614676 | 0.152086947 | 1.52087E-05 | 0.000015 | 2900 | 1 | 2900 | 0.0001 | 0.541795666 | 1571.20743 | 0.157120743 | 0.16 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.015614676 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 | 0.541795666 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.015614676 | 0.465317352 | 4.65317E-05 | 0.000047 | 6800 | 1 | 6800 | 0.0001 | 0.541795666 | 3684.210526 | 0.368421053 | 0.37 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.015614676 | 0.171761439 | 1.71761E-05 | 0.000017 | 1700 | 0 | 0 | 0.0001 | 0.541795666 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.015614676 | 0.49966964 | 4.9967E-05 | 0.00005 | 18000 | 1 | 18000 | 0.0001 | 0.541795666 | 9752.321981 | 0.975232198 | 0.98 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.015614676 | 0.780733812 | 7.80734E-05 | 0.000078 | 22000 | 1 | 22000 | 0.0001 | 0.541795666 | 11919.50464 | 1.191950464 | 1.2 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.015614676 | 0.132724748 | 1.32725E-05 | 0.000013 | 1700 | 0 | 0 | 0.0001 | 0.541795666 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | 0.015614676 | | | | | | | 0.0001 | 0.541795666 | | | |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.015614676 | 0.245150417 | 2.4515E-05 | 0.000025 | 4700 | 1 | 4700 | 0.0001 | 0.541795666 | 2546.439628 | 0.254643963 | 0.25 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.015614676 | 0.179568777 | 1.79569E-05 | 0.000018 | 4700 | 1 | 4700 | 0.0001 | 0.541795666 | 2546.439628 | 0.254643963 | 0.25 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.015614676 | 0.034976875 | 3.49769E-06 | 0.0000035 | 2300 | 1 | 2300 | 0.0001 | 0.541795666 | 1246.130031 | 0.124613003 | 0.12 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.015614676 | 1.983063883 | 0.000198306 | 0.0002 | 120000 | 1 | 120000 | 0.0001 | 0.541795666 | 65015.47988 | 6.501547988 | 6.5 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.015614676 | 0.034352288 | 3.43523E-06 | 0.0000034 | 1400 | 0 | 0 | 0.0001 | 0.541795666 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.015614676 | 0.036382196 | 3.63822E-06 | 0.0000036 | 1500 | 0 | 0 | 0.0001 | 0.541795666 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.015614676 | 0.109302734 | 1.09303E-05 | 0.000011 | 3100 | 1 | 3100 | 0.0001 | 0.541795666 | 1679.566563 | 0.167956656 | 0.17 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.015614676 | 0.078073381 | 7.80734E-06 | 0.0000078 | 1600 | 0 | 0 | 0.0001 | 0.541795666 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.015614676 | 1.772265754 | 0.000177227 | 0.00018 | 79000 | 1 | 79000 | 0.0001 | 0.541795666 | 42801.85759 | 4.280185759 | 4.3 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | 0.015614676 | | | | | | | 0.0001 | 0.541795666 | | | |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.015614676 | 0.790102618 | 7.90103E-05 | 0.000079 | 25000 | 1 | 25000 | 0.0001 | 0.541795666 | 13544.89164 | 1.354489164 | 1.4 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.015614676 | 0.15286768 | 1.52868E-05 | 0.000015 | 3700 | 1 | 3700 | 0.0001 | 0.541795666 | 2004.643963 | 0.200464396 | 0.2 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.015614676 | 0.306047654 | 3.06048E-05 | 0.000031 | 6800 | 1 | 6800 | 0.0001 | 0.541795666 | 3684.210526 | 0.368421053 | 0.37 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | 0.015614676 | | | | | | | 0.0001 | 0.541795666 | | | |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.015614676 | 0.640201726 | 6.40202E-05 | 0.000064 | 22000 | 1 | 22000 | 0.0001 | 0.541795666 | 11919.50464 | 1.191950464 | 1.2 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.015614676 | 1.217944747 | 0.000121794 | 0.00012 | 77000 | 1 | 77000 | 0.0001 | 0.541795666 | 41718.26625 | 4.171826625 | 4.2 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.015614676 | 0.74950446 | 7.49504E-05 | 0.000075 | 29000 | 1 | 29000 | 0.0001 | 0.541795666 | 15712.0743 | 1.57120743 | 1.6 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.015614676 | 0.405981582 | 4.05982E-05 | 0.000041 | 15000 | 1 | 15000 | 0.0001 | 0.541795666 | 8126.934985 | 0.812693498 | 0.81 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.015614676 | 0.405981582 | 4.05982E-05 | 0.000041 | 12000 | 1 | 12000 | 0.0001 | 0.541795666 | 6501.547988 | 0.650154799 | 0.65 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.015614676 | 0.359137554 | 3.59138E-05 | 0.000036 | 7400 | 1 | 7400 | 0.0001 | 0.541795666 | 4009.287926 | 0.400928793 | 0.4 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.015614676 | 3.372770069 | 0.000337277 | 0.00034 | 100000 | 1 | 100000 | 0.0001 | 0.541795666 | 54179.56656 | 5.417956656 | 5.4 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.015614676 | 0.254519223 | 2.54519E-05 | 0.000025 | 4700 | 1 | 4700 | 0.0001 | 0.541795666 | 2546.439628 | 0.254643963 | 0.25 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.015614676 | 0.490300834 | 4.90301E-05 | 0.000049 | 24000 | 1 | 24000 | 0.0001 | 0.541795666 | 13003.09598 | 1.300309598 | 1.3 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.015614676 | 0.663623741 | 6.63624E-05 | 0.000066 | 29000 | 1 | 29000 | 0.0001 | 0.541795666 | 15712.0743 | 1.57120743 | 1.6 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.015614676 | 1.391267654 | 0.000139127 | 0.00014 | 50000 | 1 | 50000 | 0.0001 | 0.541795666 | 27089.78328 | 2.708978328 | 2.7 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.015614676 | 0.805717294 | 8.05717E-05 | 0.000081 | 100000 | 1 | 100000 | 0.0001 | 0.541795666 | 54179.56656 | 5.417956656 | 5.4 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.015614676 | 1.408443797 | 0.000140844 | 0.00014 | 37000 | 1 | 37000 | 0.0001 | 0.541795666 | 20046.43963 | 2.004643963 | 2 |
| | | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | NA | 0 | 0 | 0 | 100000 | 1 | 100000 | 0.0001 | 0.148014752 | 14801.47521 | 1.480147521 | 1.5 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | NA | 0 | 0 | 0 | 33000 | 1 | 33000 | 0.0001 | 0.148014752 | 4884.486821 | 0.488448682 | 0.49 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | NA | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.0001 | 0.148014752 | 7252.722855 | 0.725272285 | 0.73 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | NA | 0 | 0 | 0 | 93000 | 1 | 93000 | 0.0001 | 0.148014752 | 13765.37195 | 1.376537195 | 1.4 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | NA | 0 | 0 | 0 | 83000 | 1 | 83000 | 0.0001 | 0.148014752 | 12285.22443 | 1.228522443 | 1.2 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | NA | 0 | 0 | 0 | 53000 | 1 | 53000 | 0.0001 | 0.148014752 | 7844.781863 | 0.784478186 | 0.78 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.0001 | 0.148014752 | 10657.06215 | 1.065706215 | 1.1 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.0001 | 0.148014752 | 1924.191778 | 0.192419178 | 0.19 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | 0.0001 | 0.148014752 | 20722.0653 | 2.07220653 | 2.1 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.0001 | 0.148014752 | 6956.69335 | 0.695669335 | 0.7 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.0001 | 0.148014752 | 6808.678598 | 0.68086786 | 0.68 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | NA | 0 | 0 | 0 | 51000 | 1 | 51000 | 0.0001 | 0.148014752 | 7548.752359 | 0.754875236 | 0.75 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | 0.0001 | 0.148014752 | 13025.29819 | 1.302529819 | 1.3 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | NA | 0 | 0 | 0 | 67000 | 1 | 67000 | 0.0001 | 0.148014752 | 9916.988393 | 0.991698839 | 0.99 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | NA | 0 | 0 | 0 | 15000 | 1 | 15000 | 0.0001 | 0.148014752 | 2220.221282 | 0.222022128 | 0.22 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | NA | 0 | 0 | 0 | 55000 | 1 | 55000 | 0.0001 | 0.148014752 | 8140.811368 | 0.814081137 | 0.81 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | NA | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.0001 | 0.148014752 | 4144.41306 | 0.414441306 | 0.41 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | NA | 0 | 0 | 0 | 15000 | 1 | 15000 | 0.0001 | 0.148014752 | 2220.221282 | 0.222022128 | 0.22 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | NA | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.0001 | 0.148014752 | 1776.177026 | 0.177617703 | 0.18 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.0001 | 0.148014752 | 19241.91778 | 1.924191778 | 1.9 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | NA | 0 | 0 | 0 | 19000 | 1 | 19000 | 0.0001 | 0.148014752 | 2812.280291 | 0.281228029 | 0.28 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.0001 | 0.148014752 | 1924.191778 | 0.192419178 | 0.19 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | NA | 0 | 0 | 0 | 60000 | 1 | 60000 | 0.0001 | 0.148014752 | 8880.885128 | 0.888088513 | 0.89 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | NA | 0 | 0 | 0 | 38000 | 1 | 38000 | 0.0001 | 0.148014752 | 5624.560581 | 0.562456058 | 0.56 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | NA | 0 | 0 | 0 | 69000 | 1 | 69000 | 0.0001 | 0.148014752 | 10213.0179 | 1.02130179 | 1 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | NA | 0 | 0 | 0 | 120000 | 1 | 120000 | 0.0001 | 0.148014752 | 17761.77026 | 1.776177026 | 1.8 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.0001 | 0.148014752 | 3256.324547 | 0.325632455 | 0.33 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | NA | 0 | 0 | 0 | 67000 | 1 | 67000 | 0.0001 | 0.148014752 | 9916.988393 | 0.991698839 | 0.99 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | 0.0001 | 0.148014752 | 13025.29819 | 1.302529819 | 1.3 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.0001 | 0.148014752 | 1924.191778 | 0.192419178 | 0.19 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.0001 | 0.148014752 | 3256.324547 | 0.325632455 | 0.33 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | NA | 0 | 0 | 0 | 89000 | 1 | 89000 | 0.0001 | 0.148014752 | 13173.31294 | 1.317331294 | 1.3 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.0001 | 0.148014752 | 1924.191778 | 0.192419178 | 0.19 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | NA | 0 | 0 | 0 | 86000 | 1 | 86000 | 0.0001 | 0.148014752 | 12729.26868 | 1.272926868 | 1.3 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | NA | 0 | 0 | 0 | 39000 | 1 | 39000 | 0.0001 | 0.148014752 | 5772.575333 | 0.577257533 | 0.58 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | NA | 0 | 0 | 0 | 100000 | 1 | 100000 | 0.0001 | 0.148014752 | 14801.47521 | 1.480147521 | 1.5 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | NA | 0 | 0 | 0 | 94500 | 1 | 94500 | 0.0001 | 0.148014752 | 13987.39408 | 1.398739408 | 1.4 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | NA | 0 | 0 | 0 | | | | 0.0001 | 0.148014752 | | | |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | NA | 0 | 0 | 0 | 95000 | 1 | 95000 | 0.0001 | 0.148014752 | 14061.40145 | 1.406140145 | 1.4 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | NA | 0 | 0 | 0 | 120000 | 1 | 120000 | 0.0001 | 0.148014752 | 17761.77026 | 1.776177026 | 1.8 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | NA | 0 | 0 | 0 | 73000 | 1 | 73000 | 0.0001 | 0.148014752 | 10805.07691 | 1.080507691 | 1.1 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | NA | 0 | 0 | 0 | 52000 | 1 | 52000 | 0.0001 | 0.148014752 | 7696.767111 | 0.769676711 | 0.77 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | NA | 0 | 0 | 0 | 95000 | 1 | 95000 | 0.0001 | 0.148014752 | 14061.40145 | 1.406140145 | 1.4 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.0001 | 0.148014752 | 1924.191778 | 0.192419178 | 0.19 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | NA | 0 | 0 | 0 | 56000 | 1 | 56000 | 0.0001 | 0.148014752 | 8288.82612 | 0.828882612 | 0.83 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | NA | 0 | 0 | 0 | 40000 | 1 | 40000 | 0.0001 | 0.148014752 | 5920.590085 | 0.592059009 | 0.59 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | NA | 0 | 0 | 0 | 20000 | 1 | 20000 | 0.0001 | 0.148014752 | 2960.295043 | 0.296029504 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.0001 | 0.148014752 | 3700.368803 | 0.37003688 | 0.37 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | NA | 0 | 0 | 0 | 45000 | 1 | 45000 | 0.0001 | 0.148014752 | 6660.663846 | 0.666066385 | 0.67 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | NA | 0 | 0 | 0 | 48000 | 1 | 48000 | 0.0001 | 0.148014752 | 7104.708103 | 0.71047081 | 0.71 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | NA | 0 | 0 | 0 | 39000 | 1 | 39000 | 0.0001 | 0.148014752 | 5772.575333 | 0.577257533 | 0.58 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | NA | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.0001 | 0.148014752 | 1776.177026 | 0.177617703 | 0.18 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | NA | 0 | 0 | 0 | 55000 | 1 | 55000 | 0.0001 | 0.148014752 | 8140.811368 | 0.814081137 | 0.81 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | NA | 0 | 0 | 0 | 32000 | 1 | 32000 | 0.0001 | 0.148014752 | 4736.472068 | 0.473647207 | 0.47 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | NA | 0 | 0 | 0 | 31000 | 1 | 31000 | 0.0001 | 0.148014752 | 4588.457316 | 0.458845732 | 0.46 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | NA | 0 | 0 | 0 | 67000 | 1 | 67000 | 0.0001 | 0.148014752 | 9916.988393 | 0.991698839 | 0.99 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | NA | 0 | 0 | 0 | 64000 | 1 | 64000 | 0.0001 | 0.148014752 | 9472.944137 | 0.947294414 | 0.95 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.0001 | 0.148014752 | 6512.649094 | 0.651264909 | 0.65 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | NA | 0 | 0 | 0 | 40000 | 1 | 40000 | 0.0001 | 0.148014752 | 5920.590085 | 0.592059009 | 0.59 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | NA | 0 | 0 | 0 | 38000 | 1 | 38000 | 0.0001 | 0.148014752 | 5624.560581 | 0.562456058 | 0.56 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | NA | 0 | 0 | 0 | 20000 | 1 | 20000 | 0.0001 | 0.148014752 | 2960.295043 | 0.296029504 | 0.3 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.0001 | 0.148014752 | 3700.368803 | 0.37003688 | 0.37 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.0001 | 0.148014752 | 19241.91778 | 1.924191778 | 1.9 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | NA | 0 | 0 | 0 | 92000 | 1 | 92000 | 0.0001 | 0.148014752 | 13617.3572 | 1.36173572 | 1.4 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | NA | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.0001 | 0.148014752 | 4144.41306 | 0.414441306 | 0.41 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | NA | 0 | 0 | 0 | 95000 | 1 | 95000 | 0.0001 | 0.148014752 | 14061.40145 | 1.406140145 | 1.4 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.0001 | 0.148014752 | 3256.324547 | 0.325632455 | 0.33 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | NA | 0 | 0 | 0 | 41000 | 1 | 41000 | 0.0001 | 0.148014752 | 6068.604838 | 0.606860484 | 0.61 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | NA | 0 | 0 | 0 | 45000 | 1 | 45000 | 0.0001 | 0.148014752 | 6660.663846 | 0.666066385 | 0.67 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | NA | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.0001 | 0.148014752 | 458.8457316 | 0.045884573 | 0.046 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.0001 | 0.148014752 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | NA | 0 | 0 | 0 | 2900 | 1 | 2900 | 0.0001 | 0.148014752 | 429.2427812 | 0.042924278 | 0.043 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 | 0.148014752 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | NA | 0 | 0 | 0 | 6800 | 1 | 6800 | 0.0001 | 0.148014752 | 1006.500315 | 0.100650031 | 0.1 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 | 0.148014752 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | NA | 0 | 0 | 0 | 18000 | 1 | 18000 | 0.0001 | 0.148014752 | 2664.265538 | 0.266426554 | 0.27 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.0001 | 0.148014752 | 3256.324547 | 0.325632455 | 0.33 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 | 0.148014752 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | NA | 0 | 0 | 0 | | | | 0.0001 | 0.148014752 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | NA | 0 | 0 | 0 | 4700 | 1 | 4700 | 0.0001 | 0.148014752 | 695.669335 | 0.069566934 | 0.07 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | NA | 0 | 0 | 0 | 4700 | 1 | 4700 | 0.0001 | 0.148014752 | 695.669335 | 0.069566934 | 0.07 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | NA | 0 | 0 | 0 | 2300 | 1 | 2300 | 0.0001 | 0.148014752 | 340.4339299 | 0.034043393 | 0.034 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | NA | 0 | 0 | 0 | 120000 | 1 | 120000 | 0.0001 | 0.148014752 | 17761.77026 | 1.776177026 | 1.8 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.0001 | 0.148014752 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 | 0.148014752 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | NA | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.0001 | 0.148014752 | 458.8457316 | 0.045884573 | 0.046 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 | 0.148014752 | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | NA | 0 | 0 | 0 | 79000 | 1 | 79000 | 0.0001 | 0.148014752 | 11693.16542 | 1.169316542 | 1.2 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | NA | 0 | 0 | 0 | | | | 0.0001 | 0.148014752 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.0001 | 0.148014752 | 3700.368803 | 0.37003688 | 0.37 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | NA | 0 | 0 | 0 | 3700 | 1 | 3700 | 0.0001 | 0.148014752 | 547.6545829 | 0.054765458 | 0.055 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | NA | 0 | 0 | 0 | 6800 | 1 | 6800 | 0.0001 | 0.148014752 | 1006.500315 | 0.100650031 | 0.1 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | NA | 0 | 0 | 0 | | | | 0.0001 | 0.148014752 | | | |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.0001 | 0.148014752 | 3256.324547 | 0.325632455 | 0.33 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | NA | 0 | 0 | 0 | 77000 | 1 | 77000 | 0.0001 | 0.148014752 | 11397.13591 | 1.139713591 | 1.1 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | NA | 0 | 0 | 0 | 29000 | 1 | 29000 | 0.0001 | 0.148014752 | 4292.427812 | 0.429242781 | 0.43 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | NA | 0 | 0 | 0 | 15000 | 1 | 15000 | 0.0001 | 0.148014752 | 2220.221282 | 0.222022128 | 0.22 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | NA | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.0001 | 0.148014752 | 1776.177026 | 0.177617703 | 0.18 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | NA | 0 | 0 | 0 | 7400 | 1 | 7400 | 0.0001 | 0.148014752 | 1095.309166 | 0.109530917 | 0.11 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | NA | 0 | 0 | 0 | 100000 | 1 | 100000 | 0.0001 | 0.148014752 | 14801.47521 | 1.480147521 | 1.5 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | NA | 0 | 0 | 0 | 4700 | 1 | 4700 | 0.0001 | 0.148014752 | 695.669335 | 0.069566934 | 0.07 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | NA | 0 | 0 | 0 | 24000 | 1 | 24000 | 0.0001 | 0.148014752 | 3552.354051 | 0.355235405 | 0.36 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | NA | 0 | 0 | 0 | 29000 | 1 | 29000 | 0.0001 | 0.148014752 | 4292.427812 | 0.429242781 | 0.43 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | NA | 0 | 0 | 0 | 50000 | 1 | 50000 | 0.0001 | 0.148014752 | 7400.737607 | 0.740073761 | 0.74 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | NA | 0 | 0 | 0 | 100000 | 1 | 100000 | 0.0001 | 0.148014752 | 14801.47521 | 1.480147521 | 1.5 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | NA | 0 | 0 | 0 | 37000 | 1 | 37000 | 0.0001 | 0.148014752 | 5476.545829 | 0.547654583 | 0.55 |
| | | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0.025524812 | 1.837786466 | 0.000183779 | 0.00018 | 100000 | 1 | 100000 | 0.0001 | 0.03102406 | 3102.406015 | 0.310240602 | 0.31 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0.025524812 | 1.557013534 | 0.000155701 | 0.00016 | 33000 | 1 | 33000 | 0.0001 | 0.03102406 | 1023.793985 | 0.102379398 | 0.1 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0.025524812 | 3.216126316 | 0.000321613 | 0.00032 | 49000 | 1 | 49000 | 0.0001 | 0.03102406 | 1520.178947 | 0.152017895 | 0.15 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0.025524812 | 2.241078496 | 0.000224108 | 0.00022 | 93000 | 1 | 93000 | 0.0001 | 0.03102406 | 2885.237594 | 0.288523759 | 0.29 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0.025524812 | 2.264050827 | 0.000226405 | 0.00023 | 83000 | 1 | 83000 | 0.0001 | 0.03102406 | 2574.996992 | 0.257499699 | 0.26 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0.025524812 | 1.590195789 | 0.00015902 | 0.00016 | 53000 | 1 | 53000 | 0.0001 | 0.03102406 | 1644.275188 | 0.164427519 | 0.16 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0.025524812 | 1.743344662 | 0.000174334 | 0.00017 | 72000 | 1 | 72000 | 0.0001 | 0.03102406 | 2233.732331 | 0.223373233 | 0.22 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0.025524812 | 0.197306797 | 1.97307E-05 | 0.00002 | 13000 | 1 | 13000 | 0.0001 | 0.03102406 | 403.312782 | 0.040331278 | 0.04 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0.025524812 | 1.850548872 | 0.000185055 | 0.00019 | 140000 | 1 | 140000 | 0.0001 | 0.03102406 | 4343.368421 | 0.434336842 | 0.43 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0.025524812 | 1.625930526 | 0.000162593 | 0.00016 | 47000 | 1 | 47000 | 0.0001 | 0.03102406 | 1458.130827 | 0.145813083 | 0.15 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0.025524812 | 1.411522105 | 0.000141152 | 0.00014 | 46000 | 1 | 46000 | 0.0001 | 0.03102406 | 1427.106767 | 0.142710677 | 0.14 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0.025524812 | 1.01844 | 0.000101844 | 0.0001 | 51000 | 1 | 51000 | 0.0001 | 0.03102406 | 1582.227068 | 0.158222707 | 0.16 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0.025524812 | 1.340052632 | 0.000134005 | 0.00013 | 88000 | 1 | 88000 | 0.0001 | 0.03102406 | 2730.117293 | 0.273011729 | 0.27 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0.025524812 | 1.518726316 | 0.000151873 | 0.00015 | 67000 | 1 | 67000 | 0.0001 | 0.03102406 | 2078.61203 | 0.207861203 | 0.21 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0.025524812 | | | | 15000 | 1 | 15000 | 0.0001 | 0.03102406 | 465.3609023 | 0.04653609 | 0.047 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0.025524812 | 0 | 0 | 0 | 55000 | 1 | 55000 | 0.0001 | 0.03102406 | 1706.323308 | 0.170632331 | 0.17 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0.025524812 | 1.54935609 | 0.000154936 | 0.00015 | 28000 | 1 | 28000 | 0.0001 | 0.03102406 | 868.6736842 | 0.086867368 | 0.087 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0.025524812 | 0.587070677 | 5.87071E-05 | 0.000059 | 15000 | 1 | 15000 | 0.0001 | 0.03102406 | 465.3609023 | 0.04653609 | 0.047 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0.025524812 | 0.484971429 | 4.84971E-05 | 0.000048 | 12000 | 1 | 12000 | 0.0001 | 0.03102406 | 372.2887218 | 0.037228872 | 0.037 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0.025524812 | 3.598998496 | 0.0003599 | 0.00036 | 130000 | 1 | 130000 | 0.0001 | 0.03102406 | 4033.12782 | 0.403312782 | 0.4 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0.025524812 | 0 | 0 | 0 | 19000 | 1 | 19000 | 0.0001 | 0.03102406 | 589.4571429 | 0.058945714 | 0.059 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0.025524812 | 0.842318797 | 8.42319E-05 | 0.000084 | 13000 | 1 | 13000 | 0.0001 | 0.03102406 | 403.312782 | 0.040331278 | 0.04 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0.025524812 | 1.411522105 | 0.000141152 | 0.00014 | 60000 | 1 | 60000 | 0.0001 | 0.03102406 | 1861.443609 | 0.186144361 | 0.19 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0.025524812 | 0.640672782 | 6.40673E-05 | 0.000064 | 38000 | 1 | 38000 | 0.0001 | 0.03102406 | 1178.914286 | 0.117891429 | 0.12 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0.025524812 | 0.860186165 | 8.60186E-05 | 0.000086 | 69000 | 1 | 69000 | 0.0001 | 0.03102406 | 2140.66015 | 0.214066015 | 0.21 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0.025524812 | 1.924570827 | 0.000192457 | 0.00019 | 120000 | 1 | 120000 | 0.0001 | 0.03102406 | 3722.887218 | 0.372288722 | 0.37 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0.025524812 | 1.794394286 | 0.000179439 | 0.00018 | 22000 | 1 | 22000 | 0.0001 | 0.03102406 | 682.5293233 | 0.068252932 | 0.068 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0.025524812 | 2.363597594 | 0.00023636 | 0.00024 | 67000 | 1 | 67000 | 0.0001 | 0.03102406 | 2078.61203 | 0.207861203 | 0.21 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0.025524812 | 3.114027068 | 0.000311403 | 0.00031 | 88000 | 1 | 88000 | 0.0001 | 0.03102406 | 2730.117293 | 0.273011729 | 0.27 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0.025524812 | 0.630462857 | 6.30463E-05 | 0.000063 | 13000 | 1 | 13000 | 0.0001 | 0.03102406 | 403.312782 | 0.040331278 | 0.04 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0.025524812 | 1.488096541 | 0.00014881 | 0.00015 | 22000 | 1 | 22000 | 0.0001 | 0.03102406 | 682.5293233 | 0.068252932 | 0.068 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0.025524812 | 2.123664361 | 0.000212366 | 0.00021 | 89000 | 1 | 89000 | 0.0001 | 0.03102406 | 2761.141353 | 0.276114135 | 0.28 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0.025524812 | 6.432252632 | 0.000643225 | 0.00064 | 13000 | 1 | 13000 | 0.0001 | 0.03102406 | 403.312782 | 0.040331278 | 0.04 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0.025524812 | 1.970515489 | 0.000197052 | 0.0002 | 86000 | 1 | 86000 | 0.0001 | 0.03102406 | 2668.069173 | 0.266806917 | 0.27 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0.025524812 | 0.949523008 | 9.49523E-05 | 0.000095 | 39000 | 1 | 39000 | 0.0001 | 0.03102406 | 1209.938346 | 0.120993835 | 0.12 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0.025524812 | 2.182371429 | 0.000218237 | 0.00022 | 100000 | 1 | 100000 | 0.0001 | 0.03102406 | 3102.406015 | 0.310240602 | 0.31 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0.025524812 | 1.692295038 | 0.00016923 | 0.00017 | 94500 | 1 | 94500 | 0.0001 | 0.03102406 | 2931.773684 | 0.293177368 | 0.29 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0.025524812 | | | | | | | 0.0001 | 0.03102406 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0.025524812 | 2.544823759 | 0.000254482 | 0.00025 | 95000 | 1 | 95000 | 0.0001 | 0.03102406 | 2947.285714 | 0.294728571 | 0.29 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0.025524812 | 2.603530827 | 0.000260353 | 0.00026 | 120000 | 1 | 120000 | 0.0001 | 0.03102406 | 3722.887218 | 0.372288722 | 0.37 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 0.025524812 | 3.445849624 | 0.000344585 | 0.00034 | 73000 | 1 | 73000 | 0.0001 | 0.03102406 | 2264.756391 | 0.226475639 | 0.23 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0.025524812 | 2.424857143 | 0.000242486 | 0.00024 | 52000 | 1 | 52000 | 0.0001 | 0.03102406 | 1613.251128 | 0.161325113 | 0.16 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0.025524812 | 3.547948872 | 0.000354795 | 0.00035 | 95000 | 1 | 95000 | 0.0001 | 0.03102406 | 2947.285714 | 0.294728571 | 0.29 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0.025524812 | 0.885710977 | 8.85711E-05 | 0.000089 | 13000 | 1 | 13000 | 0.0001 | 0.03102406 | 403.312782 | 0.040331278 | 0.04 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0.025524812 | 3.088502256 | 0.00030885 | 0.00031 | 56000 | 1 | 56000 | 0.0001 | 0.03102406 | 1737.347368 | 0.173734737 | 0.17 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0.025524812 | 3.088502256 | 0.00030885 | 0.00031 | 40000 | 1 | 40000 | 0.0001 | 0.03102406 | 1240.962406 | 0.124096241 | 0.12 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0.025524812 | 1.664217744 | 0.000166422 | 0.00017 | 20000 | 1 | 20000 | 0.0001 | 0.03102406 | 620.481203 | 0.06204812 | 0.062 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0.025524812 | 1.207323609 | 0.000120732 | 0.00012 | 25000 | 1 | 25000 | 0.0001 | 0.03102406 | 775.6015038 | 0.07756015 | 0.078 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0.025524812 | 2.049642406 | 0.000204964 | 0.0002 | 45000 | 1 | 45000 | 0.0001 | 0.03102406 | 1396.082707 | 0.139608271 | 0.14 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0.025524812 | 2.705630075 | 0.000270563 | 0.00027 | 48000 | 1 | 48000 | 0.0001 | 0.03102406 | 1489.154887 | 0.148915489 | 0.15 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0.025524812 | 1.641245414 | 0.000164125 | 0.00016 | 39000 | 1 | 39000 | 0.0001 | 0.03102406 | 1209.938346 | 0.120993835 | 0.12 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0.025524812 | 1.42173203 | 0.000142173 | 0.00014 | 12000 | 1 | 12000 | 0.0001 | 0.03102406 | 372.2887218 | 0.037228872 | 0.037 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0.025524812 | 1.587643308 | 0.000158764 | 0.00016 | 55000 | 1 | 55000 | 0.0001 | 0.03102406 | 1706.323308 | 0.170632331 | 0.17 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0.025524812 | 4.032920301 | 0.000403292 | 0.0004 | 32000 | 1 | 32000 | 0.0001 | 0.03102406 | 992.7699248 | 0.099276992 | 0.099 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0.025524812 | | | | 31000 | 1 | 31000 | 0.0001 | 0.03102406 | 961.7458647 | 0.096174586 | 0.096 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0.025524812 | 2.373807519 | 0.000237381 | 0.00024 | 67000 | 1 | 67000 | 0.0001 | 0.03102406 | 2078.61203 | 0.207861203 | 0.21 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0.025524812 | 3.216126316 | 0.000321613 | 0.00032 | 64000 | 1 | 64000 | 0.0001 | 0.03102406 | 1985.53985 | 0.198553985 | 0.2 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0.025524812 | 1.605510677 | 0.000160551 | 0.00016 | 44000 | 1 | 44000 | 0.0001 | 0.03102406 | 1365.058647 | 0.136505865 | 0.14 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0.025524812 | 2.093034586 | 0.000209303 | 0.00021 | 40000 | 1 | 40000 | 0.0001 | 0.03102406 | 1240.962406 | 0.124096241 | 0.12 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0.025524812 | 2.833254135 | 0.000283325 | 0.00028 | 38000 | 1 | 38000 | 0.0001 | 0.03102406 | 1178.914286 | 0.117891429 | 0.12 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0.025524812 | 1.031202406 | 0.00010312 | 0.0001 | 20000 | 1 | 20000 | 0.0001 | 0.03102406 | 620.481203 | 0.06204812 | 0.062 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0.025524812 | 1.728029774 | 0.000172803 | 0.00017 | 25000 | 1 | 25000 | 0.0001 | 0.03102406 | 775.6015038 | 0.07756015 | 0.078 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0.025524812 | 4.237118797 | 0.000423712 | 0.00042 | 130000 | 1 | 130000 | 0.0001 | 0.03102406 | 4033.12782 | 0.403312782 | 0.4 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0.025524812 | 2.705630075 | 0.000270563 | 0.00027 | 92000 | 1 | 92000 | 0.0001 | 0.03102406 | 2854.213534 | 0.285421353 | 0.29 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0.025524812 | 1.873521203 | 0.000187352 | 0.00019 | 28000 | 1 | 28000 | 0.0001 | 0.03102406 | 868.6736842 | 0.086867368 | 0.087 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0.025524812 | 6.049380451 | 0.000604938 | 0.0006 | 95000 | 1 | 95000 | 0.0001 | 0.03102406 | 2947.285714 | 0.294728571 | 0.29 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0.025524812 | 0.732562105 | 7.32562E-05 | 0.000073 | 22000 | 1 | 22000 | 0.0001 | 0.03102406 | 682.5293233 | 0.068252932 | 0.068 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0.025524812 | 1.250715789 | 0.000125072 | 0.00013 | 41000 | 1 | 41000 | 0.0001 | 0.03102406 | 1271.986466 | 0.127198647 | 0.13 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0.025524812 | 1.76121203 | 0.000176121 | 0.00018 | 45000 | 1 | 45000 | 0.0001 | 0.03102406 | 1396.082707 | 0.139608271 | 0.14 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0.025524812 | 0.510496241 | 5.10496E-05 | 0.000051 | 3100 | 1 | 3100 | 0.0001 | 0.03102406 | 96.17458647 | 0.009617459 | 0.0096 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0.025524812 | 0.113840662 | 1.13841E-05 | 0.000011 | 1400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0.025524812 | 0.248611669 | 2.48612E-05 | 0.000025 | 2900 | 1 | 2900 | 0.0001 | 0.03102406 | 89.96977444 | 0.008996977 | 0.009 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0.025524812 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0.025524812 | 0.760639398 | 7.60639E-05 | 0.000076 | 6800 | 1 | 6800 | 0.0001 | 0.03102406 | 210.963609 | 0.021096361 | 0.021 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0.025524812 | 0.280772932 | 2.80773E-05 | 0.000028 | 1700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0.025524812 | 0.816793985 | 8.16794E-05 | 0.000082 | 18000 | 1 | 18000 | 0.0001 | 0.03102406 | 558.4330827 | 0.055843308 | 0.056 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0.025524812 | 1.276240602 | 0.000127624 | 0.00013 | 22000 | 1 | 22000 | 0.0001 | 0.03102406 | 682.5293233 | 0.068252932 | 0.068 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0.025524812 | 0.216960902 | 2.16961E-05 | 0.000022 | 1700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | 0.025524812 | | | | | | | 0.0001 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0.025524812 | 0.400739549 | 4.0074E-05 | 0.00004 | 4700 | 1 | 4700 | 0.0001 | 0.03102406 | 145.8130827 | 0.014581308 | 0.015 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0.025524812 | 0.293535338 | 2.93535E-05 | 0.000029 | 4700 | 1 | 4700 | 0.0001 | 0.03102406 | 145.8130827 | 0.014581308 | 0.015 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0.025524812 | 0.057175579 | 5.71756E-06 | 0.0000057 | 2300 | 1 | 2300 | 0.0001 | 0.03102406 | 71.35533835 | 0.007135534 | 0.0071 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0.025524812 | 3.241651128 | 0.000324165 | 0.00032 | 120000 | 1 | 120000 | 0.0001 | 0.03102406 | 3722.887218 | 0.372288722 | 0.37 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0.025524812 | 0.056154586 | 5.61546E-06 | 0.0000056 | 1400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0.025524812 | 0.059472812 | 5.94728E-06 | 0.0000059 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0.025524812 | 0.178673684 | 1.78674E-05 | 0.000018 | 3100 | 1 | 3100 | 0.0001 | 0.03102406 | 96.17458647 | 0.009617459 | 0.0096 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0.025524812 | 0.12762406 | 1.27624E-05 | 0.000013 | 1600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0.025524812 | 2.897066165 | 0.000289707 | 0.00029 | 79000 | 1 | 79000 | 0.0001 | 0.03102406 | 2450.900752 | 0.245090075 | 0.25 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | 0.025524812 | | | | | | | 0.0001 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0.025524812 | 1.291555489 | 0.000129156 | 0.00013 | 25000 | 1 | 25000 | 0.0001 | 0.03102406 | 775.6015038 | 0.07756015 | 0.078 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0.025524812 | 0.24988791 | 2.49888E-05 | 0.000025 | 3700 | 1 | 3700 | 0.0001 | 0.03102406 | 114.7890226 | 0.011478902 | 0.011 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0.025524812 | 0.500286316 | 5.00286E-05 | 0.00005 | 6800 | 1 | 6800 | 0.0001 | 0.03102406 | 210.963609 | 0.021096361 | 0.021 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | 0.025524812 | | | | | | | 0.0001 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0.025524812 | 1.046517293 | 0.000104652 | 0.0001 | 22000 | 1 | 22000 | 0.0001 | 0.03102406 | 682.5293233 | 0.068252932 | 0.068 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0.025524812 | 1.990935338 | 0.000199094 | 0.0002 | 77000 | 1 | 77000 | 0.0001 | 0.03102406 | 2388.852632 | 0.238885263 | 0.24 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0.025524812 | 1.225190977 | 0.000122519 | 0.00012 | 29000 | 1 | 29000 | 0.0001 | 0.03102406 | 899.6977444 | 0.089969774 | 0.09 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0.025524812 | 0.663645113 | 6.63645E-05 | 0.000066 | 15000 | 1 | 15000 | 0.0001 | 0.03102406 | 465.3609023 | 0.04653609 | 0.047 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0.025524812 | 0.663645113 | 6.63645E-05 | 0.000066 | 12000 | 1 | 12000 | 0.0001 | 0.03102406 | 372.2887218 | 0.037228872 | 0.037 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0.025524812 | 0.587070677 | 5.87071E-05 | 0.000059 | 7400 | 1 | 7400 | 0.0001 | 0.03102406 | 229.5780451 | 0.022957805 | 0.023 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0.025524812 | 5.513359398 | 0.000551336 | 0.00055 | 100000 | 1 | 100000 | 0.0001 | 0.03102406 | 3102.406015 | 0.310240602 | 0.31 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0.025524812 | 0.416054436 | 4.16054E-05 | 0.000042 | 4700 | 1 | 4700 | 0.0001 | 0.03102406 | 145.8130827 | 0.014581308 | 0.015 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0.025524812 | 0.801479098 | 8.01479E-05 | 0.00008 | 24000 | 1 | 24000 | 0.0001 | 0.03102406 | 744.5774436 | 0.074457744 | 0.074 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0.025524812 | 1.084804511 | 0.00010848 | 0.00011 | 29000 | 1 | 29000 | 0.0001 | 0.03102406 | 899.6977444 | 0.089969774 | 0.09 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0.025524812 | 2.274260752 | 0.000227426 | 0.00023 | 50000 | 1 | 50000 | 0.0001 | 0.03102406 | 1551.203008 | 0.155120301 | 0.16 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0.025524812 | 1.317080301 | 0.000131708 | 0.00013 | 100000 | 1 | 100000 | 0.0001 | 0.03102406 | 3102.406015 | 0.310240602 | 0.31 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0.025524812 | 2.302338045 | 0.000230234 | 0.00023 | 37000 | 1 | 37000 | 0.0001 | 0.03102406 | 1147.890226 | 0.114789023 | 0.11 |
| | | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 | 0.624694322 | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0001 | 0.624694322 | | | |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | 0.624694322 | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.0001 | 0.624694322 | 27486.55018 | 2.748655018 | 2.7 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.0001 | 0.624694322 | 10619.80348 | 1.061980348 | 1.1 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.0001 | 0.624694322 | 8745.72051 | 0.874572051 | 0.87 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.0001 | 0.624694322 | 29360.63314 | 2.936063314 | 2.9 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.0001 | 0.624694322 | 28735.93882 | 2.873593882 | 2.9 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.0001 | 0.624694322 | 22488.9956 | 2.24889956 | 2.2 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.0001 | 0.624694322 | 16866.7467 | 1.68667467 | 1.7 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0001 | 0.624694322 | | | |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 | 0.624694322 | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 | 0.624694322 | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.0001 | 0.624694322 | 5372.371171 | 0.537237117 | 0.54 |
| | | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 | 1.045408747 | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0001 | 1.045408747 | | | |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | 1.045408747 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.0001 | 1.045408747 | 45997.98488 | 4.599798488 | 4.6 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.0001 | 1.045408747 | 17771.9487 | 1.77719487 | 1.8 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.0001 | 1.045408747 | 14635.72246 | 1.463572246 | 1.5 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.0001 | 1.045408747 | 49134.21112 | 4.913421112 | 4.9 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.0001 | 1.045408747 | 48088.80238 | 4.808880238 | 4.8 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.0001 | 1.045408747 | 37634.7149 | 3.76347149 | 3.8 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.0001 | 1.045408747 | 28226.03618 | 2.822603618 | 2.8 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0001 | 1.045408747 | | | |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 | 1.045408747 | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 | 1.045408747 | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.0001 | 1.045408747 | 8990.515227 | 0.899051523 | 0.9 |
| | | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 | 0.822189736 | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0001 | 0.822189736 | | | |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | 0.822189736 | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.0001 | 0.822189736 | 36176.34839 | 3.617634839 | 3.6 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.0001 | 0.822189736 | 13977.22552 | 1.397722552 | 1.4 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.0001 | 0.822189736 | 11510.65631 | 1.151065631 | 1.2 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.0001 | 0.822189736 | 38642.9176 | 3.86429176 | 3.9 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.0001 | 0.822189736 | 37820.72787 | 3.782072787 | 3.8 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.0001 | 0.822189736 | 29598.8305 | 2.95988305 | 3 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.0001 | 0.822189736 | 22199.12288 | 2.219912288 | 2.2 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0001 | 0.822189736 | | | |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 | 0.822189736 | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 | 0.822189736 | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.0001 | 0.822189736 | 7070.831731 | 0.707083173 | 0.71 |
| | | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.072601146 | 2.487121375 | 0.000248712 | 0.00025 | 1600 | 0 | 0 | 0.0001 | 17.90763673 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 2.072601146 | 619.7077425 | 0.061970774 | 0.062 | | | | 0.0001 | 17.90763673 | | | |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2.072601146 | 8.083144468 | 0.000808314 | 0.00081 | 2100 | 0 | 0 | 0.0001 | 17.90763673 | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 2.072601146 | 100.5211556 | 0.010052116 | 0.01 | 44000 | 1 | 44000 | 0.0001 | 17.90763673 | 787936.0159 | 78.79360159 | 79 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2.072601146 | 11.52366237 | 0.001152366 | 0.0012 | 17000 | 1 | 17000 | 0.0001 | 17.90763673 | 304429.8243 | 30.44298243 | 30 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.072601146 | 5.989817311 | 0.000598982 | 0.0006 | 14000 | 1 | 14000 | 0.0001 | 17.90763673 | 250706.9142 | 25.07069142 | 25 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 2.072601146 | 15.97975483 | 0.001597975 | 0.0016 | 47000 | 1 | 47000 | 0.0001 | 17.90763673 | 841658.9261 | 84.16589261 | 84 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 2.072601146 | 127.2577103 | 0.012725771 | 0.013 | 46000 | 1 | 46000 | 0.0001 | 17.90763673 | 823751.2894 | 82.37512894 | 82 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.072601146 | 54.0948899 | 0.005409489 | 0.0054 | 36000 | 1 | 36000 | 0.0001 | 17.90763673 | 644674.9221 | 64.46749221 | 64 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.072601146 | 33.4725085 | 0.003347251 | 0.0033 | 27000 | 1 | 27000 | 0.0001 | 17.90763673 | 483506.1916 | 48.35061916 | 48 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 2.072601146 | | | | | | | 0.0001 | 17.90763673 | | | |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 2.072601146 | | | | 5800 | 0 | 0 | 0.0001 | 17.90763673 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 2.072601146 | | | | 1800 | 0 | 0 | 0.0001 | 17.90763673 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2.072601146 | | | | 8600 | 1 | 8600 | 0.0001 | 17.90763673 | 154005.6758 | 15.40056758 | 15 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 | 13.00016101 | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0001 | 13.00016101 | | | |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | 13.00016101 | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.0001 | 13.00016101 | 572007.0843 | 57.20070843 | 57 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.0001 | 13.00016101 | 221002.7371 | 22.10027371 | 22 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.0001 | 13.00016101 | 182002.2541 | 18.20022541 | 18 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.0001 | 13.00016101 | 611007.5673 | 61.10075673 | 61 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.0001 | 13.00016101 | 598007.4063 | 59.80074063 | 60 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.0001 | 13.00016101 | 468005.7962 | 46.80057962 | 47 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.0001 | 13.00016101 | 351004.3472 | 35.10043472 | 35 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0001 | 13.00016101 | | | |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 | 13.00016101 | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 | 13.00016101 | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.0001 | 13.00016101 | 111801.3847 | 11.18013847 | 11 |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 | 10.66240171 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0001 | 10.66240171 | | | |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | 10.66240171 | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.0001 | 10.66240171 | 469145.6751 | 46.91456751 | 47 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.0001 | 10.66240171 | 181260.829 | 18.1260829 | 18 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.0001 | 10.66240171 | 149273.6239 | 14.92736239 | 15 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.0001 | 10.66240171 | 501132.8802 | 50.11328802 | 50 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.0001 | 10.66240171 | 490470.4785 | 49.04704785 | 49 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.0001 | 10.66240171 | 383846.4614 | 38.38464614 | 38 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.0001 | 10.66240171 | 287884.8461 | 28.78848461 | 29 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0001 | 10.66240171 | | | |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 | 10.66240171 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 | 10.66240171 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.0001 | 10.66240171 | 91696.65467 | 9.169665467 | 9.2 |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 | 17.54482154 | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0001 | 17.54482154 | | | |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | 17.54482154 | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.0001 | 17.54482154 | 771972.1476 | 77.19721476 | 77 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.0001 | 17.54482154 | 298261.9661 | 29.82619661 | 30 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.0001 | 17.54482154 | 245627.5015 | 24.56275015 | 25 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.0001 | 17.54482154 | 824606.6122 | 82.46066122 | 82 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.0001 | 17.54482154 | 807061.7907 | 80.70617907 | 81 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.0001 | 17.54482154 | 631613.5753 | 63.16135753 | 63 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.0001 | 17.54482154 | 473710.1815 | 47.37101815 | 47 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0001 | 17.54482154 | | | |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 | 17.54482154 | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 | 17.54482154 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.0001 | 17.54482154 | 150885.4652 | 15.08854652 | 15 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 | 3.112356054 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0001 | 3.112356054 | | | |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | 3.112356054 | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.0001 | 3.112356054 | 136943.6664 | 13.69436664 | 14 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.0001 | 3.112356054 | 52910.05291 | 5.291005291 | 5.3 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.0001 | 3.112356054 | 43572.98475 | 4.357298475 | 4.4 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.0001 | 3.112356054 | 146280.7345 | 14.62807345 | 15 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.0001 | 3.112356054 | 143168.3785 | 14.31683785 | 14 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.0001 | 3.112356054 | 112044.8179 | 11.20448179 | 11 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.0001 | 3.112356054 | 84033.61345 | 8.403361345 | 8.4 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0001 | 3.112356054 | | | |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 | 3.112356054 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 | 3.112356054 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.0001 | 3.112356054 | 26766.26206 | 2.676626206 | 2.7 |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.051136364 | 0.061363636 | 6.13636E-06 | 0.0000061 | 1600 | 0 | 0 | 0.0001 | 10.61030473 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.051136364 | 15.28977273 | 0.001528977 | 0.0015 | | | | 0.0001 | 10.61030473 | | | |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.051136364 | 0.199431818 | 1.99432E-05 | 0.00002 | 2100 | 0 | 0 | 0.0001 | 10.61030473 | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.051136364 | 2.480113636 | 0.000248011 | 0.00025 | 44000 | 1 | 44000 | 0.0001 | 10.61030473 | 466853.408 | 46.6853408 | 47 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.051136364 | 0.284318182 | 2.84318E-05 | 0.000028 | 17000 | 1 | 17000 | 0.0001 | 10.61030473 | 180375.1804 | 18.03751804 | 18 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.051136364 | 0.147784091 | 1.47784E-05 | 0.000015 | 14000 | 1 | 14000 | 0.0001 | 10.61030473 | 148544.2662 | 14.85442662 | 15 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.051136364 | 0.394261364 | 3.94261E-05 | 0.000039 | 47000 | 1 | 47000 | 0.0001 | 10.61030473 | 498684.3222 | 49.86843222 | 50 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.051136364 | 3.139772727 | 0.000313977 | 0.00031 | 46000 | 1 | 46000 | 0.0001 | 10.61030473 | 488074.0175 | 48.80740175 | 49 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.051136364 | 1.334659091 | 0.000133466 | 0.00013 | 36000 | 1 | 36000 | 0.0001 | 10.61030473 | 381970.9702 | 38.19709702 | 38 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.051136364 | 0.825852273 | 8.25852E-05 | 0.000083 | 27000 | 1 | 27000 | 0.0001 | 10.61030473 | 286478.2277 | 28.64782277 | 29 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0.051136364 | | | | | | | 0.0001 | 10.61030473 | | | |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.051136364 | | | | 5800 | 0 | 0 | 0.0001 | 10.61030473 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.051136364 | | | | 1800 | 0 | 0 | 0.0001 | 10.61030473 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.051136364 | | | | 8600 | 1 | 8600 | 0.0001 | 10.61030473 | 91248.62066 | 9.124862066 | 9.1 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 | 6.812859272 | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0001 | 6.812859272 | | | |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | 6.812859272 | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.0001 | 6.812859272 | 299765.808 | 29.9765808 | 30 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.0001 | 6.812859272 | 115818.6076 | 11.58186076 | 12 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.0001 | 6.812859272 | 95380.02981 | 9.538002981 | 9.5 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.0001 | 6.812859272 | 320204.3858 | 32.02043858 | 32 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.0001 | 6.812859272 | 313391.5265 | 31.33915265 | 31 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.0001 | 6.812859272 | 245262.9338 | 24.52629338 | 25 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.0001 | 6.812859272 | 183947.2003 | 18.39472003 | 18 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0001 | 6.812859272 | | | |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 | 6.812859272 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDF | | | | BZ#105 | | | | BZ#105 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 | 6.812859272 | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.0001 | 6.812859272 | 58590.58974 | 5.859058974 | 5.9 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 | 10.99280069 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | | | | 0.0001 | 10.99280069 | | | |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | 10.99280069 | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.0001 | 10.99280069 | 483683.2301 | 48.36832301 | 48 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 17000 | 1 | 17000 | 0.0001 | 10.99280069 | 186877.6116 | 18.68776116 | 19 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.0001 | 10.99280069 | 153899.2096 | 15.38992096 | 15 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.0001 | 10.99280069 | 516661.6322 | 51.66616322 | 52 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.0001 | 10.99280069 | 505668.8315 | 50.56688315 | 51 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 36000 | 1 | 36000 | 0.0001 | 10.99280069 | 395740.8247 | 39.57408247 | 40 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.0001 | 10.99280069 | 296805.6185 | 29.68056185 | 30 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0001 | 10.99280069 | | | |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 | 10.99280069 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 | 10.99280069 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.0001 | 10.99280069 | 94538.08589 | 9.453808589 | 9.5 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 200000 | 1 | 200000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 63000 | 1 | 63000 | 0.00001 | 0.652086677 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00001 | 0.652086677 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 96000 | 1 | 96000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.652086677 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 280000 | 1 | 280000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 89000 | 1 | 89000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 8800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 86000 | 1 | 86000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 9400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 95000 | 1 | 95000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 14000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 3000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 29000 | 1 | 29000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 24000 | 1 | 24000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 240000 | 1 | 240000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 6800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 45000 | 1 | 45000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00001 | 0.652086677 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00001 | 0.652086677 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.00001 | 0.652086677 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | 0.00001 | 0.652086677 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 48000 | 1 | 48000 | 0.00001 | 0.652086677 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.652086677 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00001 | 0.652086677 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 30000 | 1 | 30000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00001 | 0.652086677 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | 0.00001 | 0.652086677 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 76000 | 1 | 76000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 175000 | 1 | 175000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8900 | 1 | 8900 | 0.0001 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00001 | 0.652086677 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00001 | 0.652086677 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 26000 | 1 | 26000 | 0.00001 | 0.652086677 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00001 | 0.652086677 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 80000 | 1 | 80000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 41000 | 1 | 41000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 82000 | 1 | 82000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 93000 | 1 | 93000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00001 | 0.652086677 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 26000 | 1 | 26000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 100000 | 1 | 100000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 63000 | 1 | 63000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 58000 | 1 | 58000 | 0.00001 | 0.652086677 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | 0.00001 | 0.652086677 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 80000 | 1 | 80000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 35000 | 1 | 35000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 60000 | 1 | 60000 | 0.00001 | 0.652086677 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 220000 | 1 | 220000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 69000 | 1 | 69000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 41000 | 1 | 41000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 86000 | 1 | 86000 | 0.00001 | 0.652086677 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 84000 | 1 | 84000 | 0.00001 | 0.652086677 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7300 | 1 | 7300 | 0.00001 | 0.652086677 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00001 | 0.652086677 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 5700 | 1 | 5700 | 0.00001 | 0.652086677 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00001 | 0.652086677 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00001 | 0.652086677 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1900 | 1 | 1900 | 0.00001 | 0.652086677 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 32000 | 1 | 32000 | 0.00001 | 0.652086677 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00001 | 0.652086677 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3350 | 1 | 3350 | 0.00001 | 0.652086677 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 0.652086677 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9500 | 1 | 9500 | 0.00001 | 0.652086677 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9700 | 1 | 9700 | 0.00001 | 0.652086677 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.00001 | 0.652086677 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | 0.00001 | 0.652086677 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00001 | 0.652086677 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00001 | 0.652086677 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 5900 | 1 | 5900 | 0.00001 | 0.652086677 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2600 | 1 | 2600 | 0.00001 | 0.652086677 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 165000 | 1 | 165000 | 0.00001 | 0.652086677 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 0.652086677 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00001 | 0.652086677 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7000 | 1 | 7000 | 0.00001 | 0.652086677 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00001 | 0.652086677 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 0.652086677 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 38000 | 1 | 38000 | 0.00001 | 0.652086677 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | 0.00001 | 0.652086677 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 64000 | 1 | 64000 | 0.00001 | 0.652086677 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.00001 | 0.652086677 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.00001 | 0.652086677 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 16000 | 1 | 16000 | 0.00001 | 0.652086677 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00001 | 0.652086677 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9900 | 1 | 9900 | 0.00001 | 0.652086677 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00001 | 0.652086677 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 59000 | 1 | 59000 | 0.00001 | 0.652086677 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | 0.00001 | 0.652086677 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 78000 | 1 | 78000 | 0.00001 | 0.652086677 |
| | | | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 200000 | 1 | 200000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 63000 | 1 | 63000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 96000 | 1 | 96000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 280000 | 1 | 280000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 89000 | 1 | 89000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 8800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 86000 | 1 | 86000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 9400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 95000 | 1 | 95000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 14000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 3000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 29000 | 1 | 29000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 24000 | 1 | 24000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 240000 | 1 | 240000 | 0.00001 | 0.134294284 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 6800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 45000 | 1 | 45000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 48000 | 1 | 48000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 30000 | 1 | 30000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 76000 | 1 | 76000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 175000 | 1 | 175000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8900 | 1 | 8900 | 0.0001 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 26000 | 1 | 26000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 80000 | 1 | 80000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 41000 | 1 | 41000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 82000 | 1 | 82000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 93000 | 1 | 93000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 26000 | 1 | 26000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 100000 | 1 | 100000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 63000 | 1 | 63000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 58000 | 1 | 58000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 80000 | 1 | 80000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 35000 | 1 | 35000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 60000 | 1 | 60000 | 0.00001 | 0.134294284 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 220000 | 1 | 220000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 69000 | 1 | 69000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 41000 | 1 | 41000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 86000 | 1 | 86000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 84000 | 1 | 84000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7300 | 1 | 7300 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 5700 | 1 | 5700 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1900 | 1 | 1900 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 32000 | 1 | 32000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3350 | 1 | 3350 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9500 | 1 | 9500 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9700 | 1 | 9700 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 5900 | 1 | 5900 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2600 | 1 | 2600 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 165000 | 1 | 165000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicat | 6/26/2007 | SO | 89 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7000 | 1 | 7000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicat | 6/29/2007 | SO | 93 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 38000 | 1 | 38000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 64000 | 1 | 64000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 16000 | 1 | 16000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9900 | 1 | 9900 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 59000 | 1 | 59000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00001 | 0.134294284 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | 0.00001 | 0.134294284 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 78000 | 1 | 78000 | 0.00001 | 0.134294284 |
| | | | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 200000 | 1 | 200000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 63000 | 1 | 63000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 140000 | 1 | 140000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 96000 | 1 | 96000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 280000 | 1 | 280000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 89000 | 1 | 89000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 8800 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 86000 | 1 | 86000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 9400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 95000 | 1 | 95000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 14000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 150000 | 1 | 150000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 15000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 3000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 29000 | 1 | 29000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 15000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 24000 | 1 | 24000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 240000 | 1 | 240000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 6800 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 45000 | 1 | 45000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 230000 | 1 | 230000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 48000 | 1 | 48000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 30000 | 1 | 30000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 180000 | 1 | 180000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 76000 | 1 | 76000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 175000 | 1 | 175000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.0001 | 0.03102406 | | | | | | | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8900 | 1 | 8900 | 0.0001 | 0.03102406 | 276.1141353 | 0.027611414 | 0.028 | 190000 | 1 | 190000 | 0.00001 | 0.03102406 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 26000 | 1 | 26000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 80000 | 1 | 80000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 41000 | 1 | 41000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 49000 | 1 | 49000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 82000 | 1 | 82000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 93000 | 1 | 93000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 26000 | 1 | 26000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 100000 | 1 | 100000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 63000 | 1 | 63000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 58000 | 1 | 58000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 140000 | 1 | 140000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 81000 | 1 | 81000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 80000 | 1 | 80000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 35000 | 1 | 35000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 60000 | 1 | 60000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 220000 | 1 | 220000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 180000 | 1 | 180000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 69000 | 1 | 69000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 170000 | 1 | 170000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 41000 | 1 | 41000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 86000 | 1 | 86000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 84000 | 1 | 84000 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 7300 | 1 | 7300 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 5700 | 1 | 5700 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 1900 | 1 | 1900 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 32000 | 1 | 32000 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 44000 | 1 | 44000 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 3350 | 1 | 3350 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | 0.0001 | 0.03102406 | | | | | | | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 9500 | 1 | 9500 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 9700 | 1 | 9700 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.00001 | 0.03102406 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 230000 | 1 | 230000 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 5900 | 1 | 5900 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 2600 | 1 | 2600 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 165000 | 1 | 165000 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.0001 | 0.03102406 | | | | | | | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 46000 | 1 | 46000 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 7000 | 1 | 7000 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.0001 | 0.03102406 | | | | | | | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 38000 | 1 | 38000 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 150000 | 1 | 150000 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 64000 | 1 | 64000 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 28000 | 1 | 28000 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 22000 | 1 | 22000 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 16000 | 1 | 16000 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 190000 | 1 | 190000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 9900 | 1 | 9900 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 47000 | 1 | 47000 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 59000 | 1 | 59000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 210000 | 1 | 210000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 78000 | 1 | 78000 | 0.00001 | 0.03102406 |
| | | | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | 0.527603781 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 0.527603781 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | 0.527603781 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00001 | 0.527603781 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 0.527603781 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00001 | 0.527603781 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00001 | 0.527603781 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00001 | 0.527603781 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00001 | 0.527603781 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00001 | 0.527603781 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 0.527603781 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00001 | 0.527603781 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00001 | 0.527603781 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00001 | 0.527603781 |
| | | | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | 0.952407589 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 0.952407589 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | 0.952407589 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00001 | 0.952407589 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 0.952407589 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00001 | 0.952407589 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00001 | 0.952407589 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00001 | 0.952407589 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00001 | 0.952407589 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00001 | 0.952407589 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 0.952407589 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00001 | 0.952407589 |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00001 | 0.952407589 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00001 | 0.952407589 |
| | | | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | 0.88166588 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 0.88166588 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | 0.88166588 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00001 | 0.88166588 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 0.88166588 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00001 | 0.88166588 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00001 | 0.88166588 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00001 | 0.88166588 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00001 | 0.88166588 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00001 | 0.88166588 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 0.88166588 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00001 | 0.88166588 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00001 | 0.88166588 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00001 | 0.88166588 |
| | | | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | 20.53093687 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 20.53093687 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | 20.53093687 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00001 | 20.53093687 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 20.53093687 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00001 | 20.53093687 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00001 | 20.53093687 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00001 | 20.53093687 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00001 | 20.53093687 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00001 | 20.53093687 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 20.53093687 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00001 | 20.53093687 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00001 | 20.53093687 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00001 | 20.53093687 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | 18.76327514 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 18.76327514 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | 18.76327514 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00001 | 18.76327514 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 18.76327514 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00001 | 18.76327514 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00001 | 18.76327514 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00001 | 18.76327514 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00001 | 18.76327514 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00001 | 18.76327514 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 18.76327514 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00001 | 18.76327514 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00001 | 18.76327514 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00001 | 18.76327514 |
| | | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | 15.51695058 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 15.51695058 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | 15.51695058 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00001 | 15.51695058 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 15.51695058 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00001 | 15.51695058 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00001 | 15.51695058 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00001 | 15.51695058 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00001 | 15.51695058 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00001 | 15.51695058 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 15.51695058 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00001 | 15.51695058 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00001 | 15.51695058 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00001 | 15.51695058 |
| | | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | 26.53473009 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 26.53473009 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | 26.53473009 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00001 | 26.53473009 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 26.53473009 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00001 | 26.53473009 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00001 | 26.53473009 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00001 | 26.53473009 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00001 | 26.53473009 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00001 | 26.53473009 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 26.53473009 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00001 | 26.53473009 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00001 | 26.53473009 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00001 | 26.53473009 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | 5.872541418 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 5.872541418 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | 5.872541418 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00001 | 5.872541418 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 5.872541418 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00001 | 5.872541418 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00001 | 5.872541418 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00001 | 5.872541418 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00001 | 5.872541418 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00001 | 5.872541418 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 5.872541418 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00001 | 5.872541418 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00001 | 5.872541418 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00001 | 5.872541418 |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | 16.60880374 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 16.60880374 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | 16.60880374 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00001 | 16.60880374 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 16.60880374 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00001 | 16.60880374 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00001 | 16.60880374 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00001 | 16.60880374 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00001 | 16.60880374 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00001 | 16.60880374 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 16.60880374 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00001 | 16.60880374 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00001 | 16.60880374 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00001 | 16.60880374 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | 12.45035956 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 12.45035956 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | 12.45035956 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00001 | 12.45035956 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 12.45035956 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00001 | 12.45035956 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00001 | 12.45035956 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00001 | 12.45035956 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00001 | 12.45035956 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00001 | 12.45035956 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 12.45035956 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00001 | 12.45035956 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#114 | | | | BZ#114 | | | | BZ#118 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00001 | 12.45035956 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00001 | 12.45035956 |
| | | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | 16.36909029 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 16.36909029 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | 16.36909029 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 94000 | 1 | 94000 | 0.00001 | 16.36909029 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 1 | 27000 | 0.00001 | 16.36909029 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | 0.00001 | 16.36909029 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | 0.00001 | 16.36909029 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 98000 | 1 | 98000 | 0.00001 | 16.36909029 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | 0.00001 | 16.36909029 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 50500 | 1 | 50500 | 0.00001 | 16.36909029 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | 16.36909029 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00001 | 16.36909029 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2200 | 1 | 2200 | 0.00001 | 16.36909029 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 25000 | 1 | 25000 | 0.00001 | 16.36909029 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 130417.3355 | 1.304173355 | 1.3 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 41081.46067 | 0.410814607 | 0.41 | 6100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 52819.02087 | 0.528190209 | 0.53 | 5600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 123896.4687 | 1.238964687 | 1.2 | 6700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 91292.13483 | 0.912921348 | 0.91 | 8600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 62600.32103 | 0.62600321 | 0.63 | 7000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 84771.26806 | 0.847712681 | 0.85 | 8300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 17606.34029 | 0.176063403 | 0.18 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 182584.2697 | 1.825842697 | 1.8 | 12000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 58035.71429 | 0.580357143 | 0.58 | 7000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 56079.45425 | 0.560794543 | 0.56 | 8800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 61948.23435 | 0.619482343 | 0.62 | 9400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 97813.00161 | 0.978130016 | 0.98 | 14000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 84771.26806 | 0.847712681 | 0.85 | 15000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 18910.51364 | 0.189105136 | 0.19 | 3000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 71729.53451 | 0.717295345 | 0.72 | 15000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 31952.24719 | 0.319522472 | 0.32 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 17606.34029 | 0.176063403 | 0.18 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 15650.08026 | 0.156500803 | 0.16 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 156500.8026 | 1.565008026 | 1.6 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 29343.90048 | 0.293439005 | 0.29 | 6800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 16302.16693 | 0.163021669 | 0.16 | 3200 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 71729.53451 | 0.717295345 | 0.72 | 6500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 46298.15409 | 0.462981541 | 0.46 | 5400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 84771.26806 | 0.847712681 | 0.85 | 7800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 149979.9358 | 1.499799358 | 1.5 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 31300.16051 | 0.313001605 | 0.31 | 5100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 84771.26806 | 0.847712681 | 0.85 | 9500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 110854.7352 | 1.108547352 | 1.1 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 19562.60032 | 0.195626003 | 0.2 | 3100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 31952.24719 | 0.319522472 | 0.32 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 117375.6019 | 1.173756019 | 1.2 | 11000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 18258.42697 | 0.18258427 | 0.18 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 104333.8684 | 1.043338684 | 1 | 15000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 49558.58748 | 0.495585875 | 0.5 | 7100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 123896.4687 | 1.238964687 | 1.2 | 9600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 114115.1685 | 1.141151685 | 1.1 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 104333.8684 | 1.043338684 | 1 | 7400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 123896.4687 | 1.238964687 | 1.2 | 8300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 84771.26806 | 0.847712681 | 0.85 | 6700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 71729.53451 | 0.717295345 | 0.72 | 8500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 110854.7352 | 1.108547352 | 1.1 | 9500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 16954.25361 | 0.169542536 | 0.17 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 71729.53451 | 0.717295345 | 0.72 | 9100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 52166.93419 | 0.521669342 | 0.52 | 7000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 26735.55377 | 0.267355538 | 0.27 | 4700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 31952.24719 | 0.319522472 | 0.32 | 6000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 53471.10754 | 0.534711075 | 0.53 | 4900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 60644.061 | 0.60644061 | 0.61 | 8300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 52819.02087 | 0.528190209 | 0.53 | 5400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 16954.25361 | 0.169542536 | 0.17 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 65208.66774 | 0.652086677 | 0.65 | 6900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 41081.46067 | 0.410814607 | 0.41 | 4700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 37821.02729 | 0.378210273 | 0.38 | 3100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 84771.26806 | 0.847712681 | 0.85 | 8600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 91292.13483 | 0.912921348 | 0.91 | 8700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 52819.02087 | 0.528190209 | 0.53 | 4500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 52166.93419 | 0.521669342 | 0.52 | 5600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 46298.15409 | 0.462981541 | 0.46 | 3700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 22823.03371 | 0.228230337 | 0.23 | 3600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 39125.20064 | 0.391252006 | 0.39 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 143459.069 | 1.43459069 | 1.4 | 16000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 117375.6019 | 1.173756019 | 1.2 | 7900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 44993.98074 | 0.449939807 | 0.45 | 5100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 110854.7352 | 1.108547352 | 1.1 | 18000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 26735.55377 | 0.267355538 | 0.27 | 4400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 56079.45425 | 0.560794543 | 0.56 | 5600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 54775.2809 | 0.547752809 | 0.55 | 6800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 4760.232745 | 0.047602327 | 0.048 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 3716.894061 | 0.037168941 | 0.037 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 9129.213483 | 0.091292135 | 0.091 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1238.964687 | 0.012389647 | 0.012 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 20866.77368 | 0.208667737 | 0.21 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 28691.8138 | 0.286918138 | 0.29 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 2184.490369 | 0.021844904 | 0.022 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 6194.823435 | 0.061948234 | 0.062 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 6325.24077 | 0.063252408 | 0.063 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 2021.4687 | 0.020214687 | 0.02 | 4100 | 1 | 4100 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 149979.9358 | 1.499799358 | 1.5 | 15000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 3847.311396 | 0.038473114 | 0.038 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1695.425361 | 0.016954254 | 0.017 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 107594.3018 | 1.075943018 | 1.1 | 23000 | 1 | 23000 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 29995.98716 | 0.299959872 | 0.3 | 2900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 4564.606742 | 0.045646067 | 0.046 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 9129.213483 | 0.091292135 | 0.091 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 24779.29374 | 0.247792937 | 0.25 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 97813.00161 | 0.978130016 | 0.98 | 16000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 41733.54735 | 0.417335474 | 0.42 | 4900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 18258.42697 | 0.18258427 | 0.18 | 3200 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 14345.9069 | 0.143459069 | 0.14 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 10433.38684 | 0.104333868 | 0.1 | 3200 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 123896.4687 | 1.238964687 | 1.2 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 6455.658106 | 0.064556581 | 0.065 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 30648.07384 | 0.306480738 | 0.31 | 6500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 38473.11396 | 0.38473114 | 0.38 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 61296.14767 | 0.612961477 | 0.61 | 7400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 136938.2022 | 1.369382022 | 1.4 | 16000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 50862.76083 | 0.508627608 | 0.51 | 7600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 26858.85671 | 0.268588567 | 0.27 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 8460.539863 | 0.084605399 | 0.085 | 6100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 10877.83697 | 0.10877837 | 0.11 | 5600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 25515.91387 | 0.255159139 | 0.26 | 6700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 18801.1997 | 0.188011997 | 0.19 | 8600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 12892.25122 | 0.128922512 | 0.13 | 7000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 17458.25686 | 0.174582569 | 0.17 | 8300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3625.945656 | 0.036259457 | 0.036 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 37602.39939 | 0.376023994 | 0.38 | 12000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 11952.19124 | 0.119521912 | 0.12 | 7000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 11549.30838 | 0.115493084 | 0.12 | 8800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 12757.95694 | 0.127579569 | 0.13 | 9400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 20144.14253 | 0.201441425 | 0.2 | 14000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 17458.25686 | 0.174582569 | 0.17 | 15000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 3894.534223 | 0.038945342 | 0.039 | 3000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 14772.37119 | 0.147723712 | 0.15 | 15000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 6580.419893 | 0.065804199 | 0.066 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 3625.945656 | 0.036259457 | 0.036 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3223.062805 | 0.032230628 | 0.032 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 32230.62805 | 0.32230628 | 0.32 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 6043.242759 | 0.060432428 | 0.06 | 6800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3357.357088 | 0.033573571 | 0.034 | 3200 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 14772.37119 | 0.147723712 | 0.15 | 6500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 9534.894131 | 0.095348941 | 0.095 | 5400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 17458.25686 | 0.174582569 | 0.17 | 7800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 30887.68521 | 0.308876852 | 0.31 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 6446.12561 | 0.064461256 | 0.064 | 5100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 17458.25686 | 0.174582569 | 0.17 | 9500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 22830.0282 | 0.228300282 | 0.23 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 4028.828506 | 0.040288285 | 0.04 | 3100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 6580.419893 | 0.065804199 | 0.066 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 24172.97104 | 0.24172971 | 0.24 | 11000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3760.239939 | 0.037602399 | 0.038 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 21487.08537 | 0.214870854 | 0.21 | 15000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 10206.36555 | 0.102063655 | 0.1 | 7100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 25515.91387 | 0.255159139 | 0.26 | 9600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 23501.49962 | 0.235014996 | 0.24 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 21487.08537 | 0.214870854 | 0.21 | 7400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 25515.91387 | 0.255159139 | 0.26 | 8300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 17458.25686 | 0.174582569 | 0.17 | 6700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 14772.37119 | 0.147723712 | 0.15 | 8500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 22830.0282 | 0.228300282 | 0.23 | 9500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3491.651372 | 0.034916514 | 0.035 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 14772.37119 | 0.147723712 | 0.15 | 9100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 10743.54268 | 0.107435427 | 0.11 | 7000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 5506.065625 | 0.055060656 | 0.055 | 4700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6580.419893 | 0.065804199 | 0.066 | 6000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 11012.13125 | 0.110121313 | 0.11 | 4900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 12489.36837 | 0.124893684 | 0.12 | 8300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 10877.83697 | 0.10877837 | 0.11 | 5400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 3491.651372 | 0.034916514 | 0.035 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 13429.42835 | 0.134294284 | 0.13 | 6900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 8460.539863 | 0.084605399 | 0.085 | 4700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 7789.068445 | 0.077890684 | 0.078 | 3100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 17458.25686 | 0.174582569 | 0.17 | 8600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 18801.1997 | 0.188011997 | 0.19 | 8700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 10877.83697 | 0.10877837 | 0.11 | 4500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 10743.54268 | 0.107435427 | 0.11 | 5600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 9534.894131 | 0.095348941 | 0.095 | 3700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 4700.299924 | 0.047002999 | 0.047 | 3600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 8057.657012 | 0.08057657 | 0.081 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 29544.74238 | 0.295447424 | 0.3 | 16000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 24172.97104 | 0.24172971 | 0.24 | 7900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 9266.305564 | 0.092663056 | 0.093 | 5100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 22830.0282 | 0.228300282 | 0.23 | 18000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 5506.065625 | 0.055060656 | 0.055 | 4400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 11549.30838 | 0.115493084 | 0.12 | 5600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 11280.71982 | 0.112807198 | 0.11 | 6800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 980.3482698 | 0.009803483 | 0.0098 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 765.4774162 | 0.007654774 | 0.0077 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1880.11997 | 0.0188012 | 0.019 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 255.1591387 | 0.002551591 | 0.0026 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 4297.417073 | 0.042974171 | 0.043 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 5908.948476 | 0.059089485 | 0.059 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 449.8858499 | 0.004498858 | 0.0045 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1275.795694 | 0.012757957 | 0.013 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1302.65455 | 0.013026546 | 0.013 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 416.312279 | 0.004163123 | 0.0042 | 4100 | 1 | 4100 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 30887.68521 | 0.308876852 | 0.31 | 15000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 792.3362729 | 0.007923363 | 0.0079 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 349.1651372 | 0.003491651 | 0.0035 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 22158.55678 | 0.221585568 | 0.22 | 23000 | 1 | 23000 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicat | 6/26/2007 | SO | 89 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 6177.537043 | 0.06177537 | 0.062 | 2900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 940.0599848 | 0.0094006 | 0.0094 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1880.11997 | 0.0188012 | 0.019 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicat | 6/29/2007 | SO | 93 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 5103.182775 | 0.051031828 | 0.051 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 20144.14253 | 0.201441425 | 0.2 | 16000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 8594.834147 | 0.085948341 | 0.086 | 4900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3760.239939 | 0.037602399 | 0.038 | 3200 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 2954.474238 | 0.029544742 | 0.03 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 2148.708537 | 0.021487085 | 0.021 | 3200 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 25515.91387 | 0.255159139 | 0.26 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1329.513407 | 0.013295134 | 0.013 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6311.831326 | 0.063118313 | 0.063 | 6500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 7923.362729 | 0.079233627 | 0.079 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 12623.66265 | 0.126236627 | 0.13 | 7400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 28201.79954 | 0.282017995 | 0.28 | 16000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 10474.95412 | 0.104749541 | 0.1 | 7600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 6204.81203 | 0.06204812 | 0.062 | 17000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 1954.515789 | 0.019545158 | 0.02 | 6100 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 2512.948872 | 0.025129489 | 0.025 | 5600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 5894.571429 | 0.058945714 | 0.059 | 6700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 4343.368421 | 0.043433684 | 0.043 | 8600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 2978.309774 | 0.029783098 | 0.03 | 7000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 4033.12782 | 0.040331278 | 0.04 | 8300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 837.6496241 | 0.008376496 | 0.0084 | 3300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 8686.736842 | 0.086867368 | 0.087 | 12000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 2761.141353 | 0.027611414 | 0.028 | 7000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 2668.069173 | 0.026680692 | 0.027 | 8800 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 2947.285714 | 0.029472857 | 0.029 | 9400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 4653.609023 | 0.04653609 | 0.047 | 14000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 4033.12782 | 0.040331278 | 0.04 | 15000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 899.6977444 | 0.008996977 | 0.009 | 3000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 3412.646617 | 0.034126466 | 0.034 | 15000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1520.178947 | 0.015201789 | 0.015 | 1600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 837.6496241 | 0.008376496 | 0.0084 | 1800 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 744.5774436 | 0.007445774 | 0.0074 | 3400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 7445.774436 | 0.074457744 | 0.074 | 17000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 1396.082707 | 0.013960827 | 0.014 | 6800 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 775.6015038 | 0.007756015 | 0.0078 | 3200 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 3412.646617 | 0.034126466 | 0.034 | 6500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 2202.708271 | 0.022027083 | 0.022 | 5400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 4033.12782 | 0.040331278 | 0.04 | 7800 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 7135.533835 | 0.071355338 | 0.071 | 17000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 1489.154887 | 0.014891549 | 0.015 | 5100 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 4033.12782 | 0.040331278 | 0.04 | 9500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 5274.090226 | 0.052740902 | 0.053 | 17000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 930.7218045 | 0.009307218 | 0.0093 | 3100 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 1520.178947 | 0.015201789 | 0.015 | 3400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 5584.330827 | 0.055843308 | 0.056 | 11000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 868.6736842 | 0.008686737 | 0.0087 | 3400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 4963.849624 | 0.049638496 | 0.05 | 15000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 2357.828571 | 0.023578286 | 0.024 | 7100 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 5894.571429 | 0.058945714 | 0.059 | 9600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5429.210526 | 0.054292105 | 0.054 | 5800 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | | | | 0.00001 | 0.03102406 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 4963.849624 | 0.049638496 | 0.05 | 7400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 5894.571429 | 0.058945714 | 0.059 | 8300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | /Field Duplic | 3/12/2009 | SO | 41 | 4033.12782 | 0.040331278 | 0.04 | 6700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 3412.646617 | 0.034126466 | 0.034 | 8500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 5274.090226 | 0.052740902 | 0.053 | 9500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 806.6255639 | 0.008066256 | 0.0081 | 3300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 3412.646617 | 0.034126466 | 0.034 | 9100 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 2481.924812 | 0.024819248 | 0.025 | 7000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 1271.986466 | 0.012719865 | 0.013 | 4700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 1520.178947 | 0.015201789 | 0.015 | 6000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 2543.972932 | 0.025439729 | 0.025 | 4900 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 2885.237594 | 0.028852376 | 0.029 | 8300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 2512.948872 | 0.025129489 | 0.025 | 5400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 806.6255639 | 0.008066256 | 0.0081 | 1800 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 3102.406015 | 0.03102406 | 0.031 | 6900 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 1954.515789 | 0.019545158 | 0.02 | 4700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 1799.395489 | 0.017993955 | 0.018 | 3100 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 4033.12782 | 0.040331278 | 0.04 | 8600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 4343.368421 | 0.043433684 | 0.043 | 8700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 2512.948872 | 0.025129489 | 0.025 | 4500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 2481.924812 | 0.024819248 | 0.025 | 5600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 2202.708271 | 0.022027083 | 0.022 | 3700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 1085.842105 | 0.010858421 | 0.011 | 3600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 1861.443609 | 0.018614436 | 0.019 | 4800 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 6825.293233 | 0.068252932 | 0.068 | 16000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 5584.330827 | 0.055843308 | 0.056 | 7900 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 2140.66015 | 0.021406602 | 0.021 | 5100 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 5274.090226 | 0.052740902 | 0.053 | 18000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 1271.986466 | 0.012719865 | 0.013 | 4400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 2668.069173 | 0.026680692 | 0.027 | 5600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 2606.021053 | 0.026060211 | 0.026 | 6800 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 226.4756391 | 0.002264756 | 0.0023 | 1500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 176.8371429 | 0.001768371 | 0.0018 | 1500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 434.3368421 | 0.004343368 | 0.0043 | 1400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 58.94571429 | 0.000589457 | 0.00059 | 1700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 992.7699248 | 0.009927699 | 0.0099 | 3300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 1365.058647 | 0.013650586 | 0.014 | 3400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 103.9306015 | 0.001039306 | 0.001 | 1700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | | | | 0.00001 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 294.7285714 | 0.002947286 | 0.0029 | 1400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 300.9333835 | 0.003009334 | 0.003 | 1500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 96.17458647 | 0.000961746 | 0.00096 | 4100 | 1 | 4100 | 0.00001 | 0.03102406 | 127.1986466 | 0.001271986 | 0.0013 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 7135.533835 | 0.071355338 | 0.071 | 15000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 183.0419549 | 0.00183042 | 0.0018 | 1600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 80.66255639 | 0.000806626 | 0.00081 | 1600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 5118.969925 | 0.051189699 | 0.051 | 23000 | 1 | 23000 | 0.00001 | 0.03102406 | 713.5533835 | 0.007135534 | 0.0071 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicat | 6/26/2007 | SO | 89 | | | | | | | 0.00001 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 1427.106767 | 0.014271068 | 0.014 | 2900 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 217.1684211 | 0.002171684 | 0.0022 | 1600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 434.3368421 | 0.004343368 | 0.0043 | 1500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicat | 6/29/2007 | SO | 93 | | | | | | | 0.00001 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1178.914286 | 0.011789143 | 0.012 | 1500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 4653.609023 | 0.04653609 | 0.047 | 16000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 1985.53985 | 0.019855398 | 0.02 | 4900 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 868.6736842 | 0.008686737 | 0.0087 | 3200 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 682.5293233 | 0.006825293 | 0.0068 | 3300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 496.3849624 | 0.00496385 | 0.005 | 3200 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 5894.571429 | 0.058945714 | 0.059 | 17000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 307.1381955 | 0.003071382 | 0.0031 | 1600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 1458.130827 | 0.014581308 | 0.015 | 6500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 1830.419549 | 0.018304195 | 0.018 | 3300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 2916.261654 | 0.029162617 | 0.029 | 7400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 6515.052632 | 0.065150526 | 0.065 | 16000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 2419.876692 | 0.024198767 | 0.024 | 7600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 49594.75539 | 0.495947554 | 0.5 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 14245.30208 | 0.142453021 | 0.14 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 12134.88696 | 0.12134887 | 0.12 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 48011.94405 | 0.480119441 | 0.48 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 51705.17052 | 0.517051705 | 0.52 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 37987.47222 | 0.379874722 | 0.38 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 26643.99093 | 0.266439909 | 0.27 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 6858.84915 | 0.068588492 | 0.069 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1160.728318 | 0.011607283 | 0.012 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 13190.09452 | 0.131900945 | 0.13 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 89526.31341 | 0.895263134 | 0.9 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 25715.00491 | 0.257150049 | 0.26 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 21905.37456 | 0.219053746 | 0.22 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 86669.09064 | 0.866690906 | 0.87 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 93335.94376 | 0.933359438 | 0.93 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 68573.34644 | 0.685733464 | 0.69 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 48096.58327 | 0.480965833 | 0.48 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12381.29866 | 0.123812987 | 0.12 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 2095.296697 | 0.020952967 | 0.021 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 23810.18974 | 0.238101897 | 0.24 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 82876.59276 | 0.828765928 | 0.83 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 23804.97877 | 0.238049788 | 0.24 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 20278.31525 | 0.202783152 | 0.2 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 80231.59512 | 0.802315951 | 0.8 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 86403.25628 | 0.864032563 | 0.86 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 63479.94339 | 0.634799434 | 0.63 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 44524.12696 | 0.44524127 | 0.45 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 11461.65645 | 0.114616564 | 0.11 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1939.664937 | 0.019396649 | 0.019 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 22041.64701 | 0.22041647 | 0.22 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1929908.066 | 19.29908066 | 19 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 554335.2956 | 5.543352956 | 5.5 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 472211.5481 | 4.722115481 | 4.7 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1868315.256 | 18.68315256 | 19 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 2012031.814 | 20.12031814 | 20 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 1478227.455 | 14.78227455 | 15 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1036812.312 | 10.36812312 | 10 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 266902.1794 | 2.669021794 | 2.7 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 45168.06112 | 0.451680611 | 0.45 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 513273.4219 | 5.132734219 | 5.1 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1763747.863 | 17.63747863 | 18 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 506608.4288 | 5.066084288 | 5.1 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 431555.3282 | 4.315553282 | 4.3 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1707458.038 | 17.07458038 | 17 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1838800.964 | 18.38800964 | 18 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 1350955.81 | 13.5095581 | 14 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 947545.3946 | 9.475453946 | 9.5 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 243922.5768 | 2.439225768 | 2.4 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 41279.20531 | 0.412792053 | 0.41 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 469081.8785 | 4.690818785 | 4.7 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1458593.355 | 14.58593355 | 15 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 418957.6657 | 4.189576657 | 4.2 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 356889.8634 | 3.568898634 | 3.6 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1412042.503 | 14.12042503 | 14 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1520661.157 | 15.20661157 | 15 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 1117220.442 | 11.17220442 | 11 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 783606.0044 | 7.836060044 | 7.8 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 201720.3576 | 2.017203576 | 2 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 34137.29128 | 0.341372913 | 0.34 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 387923.7645 | 3.879237645 | 3.9 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 2494264.629 | 24.94264629 | 25 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 716437.7125 | 7.164377125 | 7.2 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 610298.7921 | 6.102987921 | 6.1 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 2414660.438 | 24.14660438 | 24 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 2600403.549 | 26.00403549 | 26 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 1910500.567 | 19.10500567 | 19 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1340003.87 | 13.4000387 | 13 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 344951.4912 | 3.449514912 | 3.4 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 58376.4062 | 0.583764062 | 0.58 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 663368.2523 | 6.633682523 | 6.6 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 552018.8933 | 5.520188933 | 5.5 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 158558.6183 | 1.585586183 | 1.6 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 135068.4526 | 1.350684526 | 1.4 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 534401.269 | 5.34401269 | 5.3 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 575509.0589 | 5.755090589 | 5.8 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 422822.9821 | 4.228229821 | 4.2 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 296563.3416 | 2.965633416 | 3 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 76343.03843 | 0.763430384 | 0.76 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 12919.59112 | 0.129195911 | 0.13 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 146813.5354 | 1.468135354 | 1.5 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1561227.551 | 15.61227551 | 16 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 448437.7009 | 4.484377009 | 4.5 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 382002.486 | 3.82002486 | 3.8 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1511401.14 | 15.1140114 | 15 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1627662.766 | 16.27662766 | 16 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 1195833.869 | 11.95833869 | 12 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 838744.5887 | 8.387445887 | 8.4 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 215914.4486 | 2.159144486 | 2.2 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 36539.36822 | 0.365393682 | 0.37 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 415220.0934 | 4.152200934 | 4.2 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1170333.798 | 11.70333798 | 12 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 336159.7081 | 3.361597081 | 3.4 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 286358.2698 | 2.863582698 | 2.9 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1132982.72 | 11.3298272 | 11 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1220135.237 | 12.20135237 | 12 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 896425.8882 | 8.964258882 | 9 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 628743.1577 | 6.287431577 | 6.3 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 161854.6743 | 1.618546743 | 1.6 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | BZ#123 | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 27390.79103 | 0.27390791 | 0.27 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 311258.9889 | 3.112589889 | 3.1 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1538694.488 | 15.38694488 | 15 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 441965.4379 | 4.419654379 | 4.4 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 376489.0768 | 3.764890768 | 3.8 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1489587.217 | 14.89587217 | 15 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1604170.849 | 16.04170849 | 16 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 1178574.501 | 11.78574501 | 12 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 826639.0598 | 8.266390598 | 8.3 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | | | | 0.00001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 212798.1738 | 2.127981738 | 2.1 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 36011.99865 | 0.360119986 | 0.36 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 409227.2573 | 4.092272573 | 4.1 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 310000 | 1 | 310000 | NA | NA |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 280000 | 1 | 280000 | NA | NA |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 200000 | 1 | 200000 | NA | NA |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | NA |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA | NA |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 63000 | 1 | 63000 | NA | NA |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 420000 | 1 | 420000 | NA | NA |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | NA | NA |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 16000 | 1 | 16000 | 0.1 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | NA | NA |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 17000 | 1 | 17000 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | NA |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 28000 | 1 | 28000 | 0.1 | NA | 0 | 0 | 0 | 240000 | 1 | 240000 | NA | NA |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 20000 | 1 | 20000 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA | NA |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 52000 | 1 | 52000 | NA | NA |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 7700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | NA | NA |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | NA | NA |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 54000 | 1 | 54000 | NA | NA |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 50000 | 1 | 50000 | NA | NA |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 360000 | 1 | 360000 | NA | NA |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | NA | NA |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 48000 | 1 | 48000 | NA | NA |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | NA |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 250000 | 1 | 250000 | NA | NA |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 370000 | 1 | 370000 | NA | NA |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | NA | NA |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 260000 | 1 | 260000 | NA | NA |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 62000 | 1 | 62000 | NA | NA |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 78000 | 1 | 78000 | NA | NA |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 300000 | 1 | 300000 | NA | NA |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | NA | NA |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 270000 | 1 | 270000 | NA | NA |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 330000 | 1 | 330000 | NA | NA |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 290000 | 1 | 290000 | NA | NA |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | NA | NA |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | NA | NA |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | NA | NA |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | NA | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | NA | NA |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 64000 | 1 | 64000 | NA | NA |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 200000 | 1 | 200000 | NA | NA |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA | NA |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 92000 | 1 | 92000 | NA | NA |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 120000 | 1 | 120000 | NA | NA |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | NA | NA |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | NA |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 68000 | 1 | 68000 | NA | NA |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | NA | NA |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 90000 | 1 | 90000 | NA | NA |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 84000 | 1 | 84000 | NA | NA |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 240000 | 1 | 240000 | NA | NA |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 220000 | 1 | 220000 | NA | NA |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | NA | NA |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | NA |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 300000 | 1 | 300000 | NA | NA |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 310000 | 1 | 310000 | NA | NA |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 320000 | 1 | 320000 | NA | NA |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 80000 | 1 | 80000 | NA | NA |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | NA |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA | NA |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 20000 | 1 | 20000 | NA | NA |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | NA | NA |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 15000 | 1 | 15000 | NA | NA |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | NA | NA |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 2700 | 1 | 2700 | 0.1 | NA | 0 | 0 | 0 | 42000 | 1 | 42000 | NA | NA |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5200 | 1 | 5200 | NA | NA |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 60000 | 1 | 60000 | NA | NA |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 85000 | 1 | 85000 | NA | NA |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | NA | NA |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 2000 | 1 | 2000 | 0.1 | NA | 0 | 0 | 0 | 18000 | 1 | 18000 | NA | NA |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 2500 | 1 | 2500 | 0.1 | NA | 0 | 0 | 0 | 30000 | 1 | 30000 | NA | NA |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3900 | 1 | 3900 | NA | NA |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 44000 | 1 | 44000 | 0.1 | NA | 0 | 0 | 0 | 370000 | 1 | 370000 | NA | NA |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | NA | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 1 | 3200 | NA | NA |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | NA | NA |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 8500 | 1 | 8500 | NA | NA |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 40000 | 1 | 40000 | 0.1 | NA | 0 | 0 | 0 | 275000 | 1 | 275000 | NA | NA |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 9300 | 1 | 9300 | 0.1 | NA | 0 | 0 | 0 | 87000 | 1 | 87000 | NA | NA |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 10000 | 1 | 10000 | NA | NA |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 3100 | 1 | 3100 | 0.1 | NA | 0 | 0 | 0 | 26500 | 1 | 26500 | NA | NA |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 75000 | 1 | 75000 | NA | NA |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 360000 | 1 | 360000 | NA | NA |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | NA | NA |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | NA | NA |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 43000 | 1 | 43000 | NA | NA |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 350000 | 1 | 350000 | NA | NA |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 31000 | 1 | 31000 | NA | NA |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 93000 | 1 | 93000 | NA | NA |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 300000 | 1 | 300000 | NA | NA |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 310000 | 1 | 310000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 280000 | 1 | 280000 | NA | NA |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 200000 | 1 | 200000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA | NA |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 63000 | 1 | 63000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 420000 | 1 | 420000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 16000 | 1 | 16000 | 0.1 | NA | 0 | 0 | 0 | 150000 | 1 | 150000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 17000 | 1 | 17000 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 28000 | 1 | 28000 | 0.1 | NA | 0 | 0 | 0 | 240000 | 1 | 240000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 20000 | 1 | 20000 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 52000 | 1 | 52000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 7700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 72000 | 1 | 72000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 54000 | 1 | 54000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 50000 | 1 | 50000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 360000 | 1 | 360000 | NA | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 91000 | 1 | 91000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 48000 | 1 | 48000 | NA | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 250000 | 1 | 250000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 370000 | 1 | 370000 | NA | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | /Field Duplic | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | NA | NA |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 260000 | 1 | 260000 | NA | NA |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | /Field Duplic | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 62000 | 1 | 62000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 78000 | 1 | 78000 | NA | NA |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 300000 | 1 | 300000 | NA | NA |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 270000 | 1 | 270000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 330000 | 1 | 330000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 290000 | 1 | 290000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | NA | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | /Field Duplic | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 210000 | 1 | 210000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | NA | NA |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 230000 | 1 | 230000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 64000 | 1 | 64000 | NA | NA |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 200000 | 1 | 200000 | NA | NA |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 92000 | 1 | 92000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 120000 | 1 | 120000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | NA |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 68000 | 1 | 68000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 170000 | 1 | 170000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 90000 | 1 | 90000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 84000 | 1 | 84000 | NA | NA |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 240000 | 1 | 240000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 220000 | 1 | 220000 | NA | NA |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 300000 | 1 | 300000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 310000 | 1 | 310000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 320000 | 1 | 320000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 80000 | 1 | 80000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 180000 | 1 | 180000 | NA | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 20000 | 1 | 20000 | NA | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 15000 | 1 | 15000 | NA | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | NA | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 2700 | 1 | 2700 | 0.1 | NA | 0 | 0 | 0 | 42000 | 1 | 42000 | NA | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 5200 | 1 | 5200 | NA | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 60000 | 1 | 60000 | NA | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 85000 | 1 | 85000 | NA | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | NA | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 2000 | 1 | 2000 | 0.1 | NA | 0 | 0 | 0 | 18000 | 1 | 18000 | NA | NA |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 2500 | 1 | 2500 | 0.1 | NA | 0 | 0 | 0 | 30000 | 1 | 30000 | NA | NA |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3900 | 1 | 3900 | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 44000 | 1 | 44000 | 0.1 | NA | 0 | 0 | 0 | 370000 | 1 | 370000 | NA | NA |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 1 | 3200 | NA | NA |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | NA | NA |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 8500 | 1 | 8500 | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 40000 | 1 | 40000 | 0.1 | NA | 0 | 0 | 0 | 275000 | 1 | 275000 | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 9300 | 1 | 9300 | 0.1 | NA | 0 | 0 | 0 | 87000 | 1 | 87000 | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 10000 | 1 | 10000 | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 3100 | 1 | 3100 | 0.1 | NA | 0 | 0 | 0 | 26500 | 1 | 26500 | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 75000 | 1 | 75000 | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 360000 | 1 | 360000 | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 44000 | 1 | 44000 | NA | NA |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 43000 | 1 | 43000 | NA | NA |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 350000 | 1 | 350000 | NA | NA |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 31000 | 1 | 31000 | NA | NA |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 93000 | 1 | 93000 | NA | NA |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 300000 | 1 | 300000 | NA | NA |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 310000 | 1 | 310000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 280000 | 1 | 280000 | NA | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 200000 | 1 | 200000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 180000 | 1 | 180000 | NA | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 63000 | 1 | 63000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 420000 | 1 | 420000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 150000 | 1 | 150000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 16000 | 1 | 16000 | 0.1 | 0.03102406 | 496.3849624 | 49.63849624 | 50 | 150000 | 1 | 150000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 17000 | 1 | 17000 | 0.1 | 0.03102406 | 527.4090226 | 52.74090226 | 53 | 160000 | 1 | 160000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 28000 | 1 | 28000 | 0.1 | 0.03102406 | 868.6736842 | 86.86736842 | 87 | 240000 | 1 | 240000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 20000 | 1 | 20000 | 0.1 | 0.03102406 | 620.481203 | 62.0481203 | 62 | 180000 | 1 | 180000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 52000 | 1 | 52000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 7700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 170000 | 1 | 170000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 72000 | 1 | 72000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 54000 | 1 | 54000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 50000 | 1 | 50000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 360000 | 1 | 360000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 91000 | 1 | 91000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 48000 | 1 | 48000 | NA | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 250000 | 1 | 250000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 370000 | 1 | 370000 | NA | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | /Field Duplic | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 210000 | 1 | 210000 | NA | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 260000 | 1 | 260000 | NA | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | /Field Duplic | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 62000 | 1 | 62000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 78000 | 1 | 78000 | NA | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 300000 | 1 | 300000 | NA | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 71000 | 1 | 71000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 270000 | 1 | 270000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 330000 | 1 | 330000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 290000 | 1 | 290000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.1 | 0.03102406 | | | | | | | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 230000 | 1 | 230000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 210000 | 1 | 210000 | NA | 0.03102406 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | /Field Duplic | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 210000 | 1 | 210000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 230000 | 1 | 230000 | NA | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 230000 | 1 | 230000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 64000 | 1 | 64000 | NA | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 200000 | 1 | 200000 | NA | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 180000 | 1 | 180000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 92000 | 1 | 92000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 120000 | 1 | 120000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 170000 | 1 | 170000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 68000 | 1 | 68000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 170000 | 1 | 170000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 90000 | 1 | 90000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 84000 | 1 | 84000 | NA | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 240000 | 1 | 240000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 220000 | 1 | 220000 | NA | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 71000 | 1 | 71000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | 0.03102406 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 300000 | 1 | 300000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 310000 | 1 | 310000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 320000 | 1 | 320000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 80000 | 1 | 80000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 180000 | 1 | 180000 | NA | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 20000 | 1 | 20000 | NA | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 2800 | 0 | 0 | NA | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 15000 | 1 | 15000 | NA | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 3000 | 0 | 0 | NA | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 2700 | 1 | 2700 | 0.1 | 0.03102406 | 83.76496241 | 8.376496241 | 8.4 | 42000 | 1 | 42000 | NA | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 5200 | 1 | 5200 | NA | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 60000 | 1 | 60000 | NA | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 85000 | 1 | 85000 | NA | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 13000 | 1 | 13000 | NA | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.1 | 0.03102406 | | | | | | | NA | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 2000 | 1 | 2000 | 0.1 | 0.03102406 | 62.0481203 | 6.20481203 | 6.2 | 18000 | 1 | 18000 | NA | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 2500 | 1 | 2500 | 0.1 | 0.03102406 | 77.56015038 | 7.756015038 | 7.8 | 30000 | 1 | 30000 | NA | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 3900 | 1 | 3900 | NA | 0.03102406 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 44000 | 1 | 44000 | 0.1 | 0.03102406 | 1365.058647 | 136.5058647 | 140 | 370000 | 1 | 370000 | NA | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 2800 | 0 | 0 | NA | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 3200 | 1 | 3200 | NA | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 14000 | 1 | 14000 | NA | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 8500 | 1 | 8500 | NA | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 40000 | 1 | 40000 | 0.1 | 0.03102406 | 1240.962406 | 124.0962406 | 120 | 275000 | 1 | 275000 | NA | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.1 | 0.03102406 | | | | | | | NA | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 9300 | 1 | 9300 | 0.1 | 0.03102406 | 288.5237594 | 28.85237594 | 29 | 87000 | 1 | 87000 | NA | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 10000 | 1 | 10000 | NA | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 3100 | 1 | 3100 | 0.1 | 0.03102406 | 96.17458647 | 9.617458647 | 9.6 | 26500 | 1 | 26500 | NA | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.1 | 0.03102406 | | | | | | | NA | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 75000 | 1 | 75000 | NA | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 360000 | 1 | 360000 | NA | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 44000 | 1 | 44000 | NA | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 44000 | 1 | 44000 | NA | 0.03102406 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 43000 | 1 | 43000 | NA | 0.03102406 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 350000 | 1 | 350000 | NA | 0.03102406 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 31000 | 1 | 31000 | NA | 0.03102406 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 93000 | 1 | 93000 | NA | 0.03102406 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | 0.03102406 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 300000 | 1 | 300000 | NA | 0.03102406 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 | 160000 | 1 | 160000 | NA | 0.03102406 |
| | | | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA | NA |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA | NA |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA | NA |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA | NA |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA | NA |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA | NA |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA | NA |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA | NA |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA | NA |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA | NA |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA | NA |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA | NA |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA | NA |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA | NA |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA | NA |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA | NA |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA | NA |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA | NA |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA | NA |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA | NA |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA | NA |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA | NA |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA | NA |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA | NA |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA | NA |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA | NA |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA | NA |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA | NA |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA | NA |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA | NA |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA | NA |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA | NA |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA | NA |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA | NA |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA | NA |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA | NA |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA | NA |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA | NA |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA | NA |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA | NA |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA | NA |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA | NA |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA | NA |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA | NA |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA | NA |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA | NA |
| Frogs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA | NA |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA | NA |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA | NA |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA | NA |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA | NA |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA | NA |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA | NA |
| Snakes | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA | NA |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA | NA |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA | NA |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA | NA |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA | NA |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA | NA |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA | NA |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | BZ#126 | | | | BZ#153 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA | NA |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA | NA |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA | NA |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA | NA |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA | NA |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA | NA |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | NA | NA |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.1 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA | NA |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.1 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0 | | | 35000 | 1 | 35000 | 0.0001 | 2.48940678 | 87129.23729 | 8.712923729 | 8.7 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 2.48940678 | 27383.47458 | 2.738347458 | 2.7 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0 | | | 16000 | 1 | 16000 | 0.0001 | 2.48940678 | 39830.50847 | 3.983050847 | 4 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0 | | | 29000 | 1 | 29000 | 0.0001 | 2.48940678 | 72192.79661 | 7.219279661 | 7.2 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0 | | | 27000 | 1 | 27000 | 0.0001 | 2.48940678 | 67213.98305 | 6.721398305 | 6.7 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0 | | | 21000 | 1 | 21000 | 0.0001 | 2.48940678 | 52277.54237 | 5.227754237 | 5.2 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0 | | | 26000 | 1 | 26000 | 0.0001 | 2.48940678 | 64724.57627 | 6.472457627 | 6.5 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0 | | | 5300 | 1 | 5300 | 0.0001 | 2.48940678 | 13193.85593 | 1.319385593 | 1.3 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0 | | | 48000 | 1 | 48000 | 0.0001 | 2.48940678 | 119491.5254 | 11.94915254 | 12 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0 | | | 18000 | 1 | 18000 | 0.0001 | 2.48940678 | 44809.32203 | 4.480932203 | 4.5 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0 | | | 15000 | 1 | 15000 | 0.0001 | 2.48940678 | 37341.10169 | 3.734110169 | 3.7 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0 | | | 16000 | 1 | 16000 | 0.0001 | 2.48940678 | 39830.50847 | 3.983050847 | 4 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0 | | | 28000 | 1 | 28000 | 0.0001 | 2.48940678 | 69703.38983 | 6.970338983 | 7 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0 | | | 25000 | 1 | 25000 | 0.0001 | 2.48940678 | 62235.16949 | 6.223516949 | 6.2 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0 | | | 5900 | 1 | 5900 | 0.0001 | 2.48940678 | 14687.5 | 1.46875 | 1.5 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0 | | | 19000 | 1 | 19000 | 0.0001 | 2.48940678 | 47298.72881 | 4.729872881 | 4.7 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0 | | | 8900 | 1 | 8900 | 0.0001 | 2.48940678 | 22155.72034 | 2.215572034 | 2.2 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0 | | | 5800 | 1 | 5800 | 0.0001 | 2.48940678 | 14438.55932 | 1.443855932 | 1.4 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0 | | | 6300 | 1 | 6300 | 0.0001 | 2.48940678 | 15683.26271 | 1.568326271 | 1.6 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0 | | | 42000 | 1 | 42000 | 0.0001 | 2.48940678 | 104555.0847 | 10.45550847 | 10 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0 | | | 7800 | 1 | 7800 | 0.0001 | 2.48940678 | 19417.37288 | 1.941737288 | 1.9 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0 | | | 5000 | 1 | 5000 | 0.0001 | 2.48940678 | 12447.0339 | 1.24470339 | 1.2 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0 | | | 20000 | 1 | 20000 | 0.0001 | 2.48940678 | 49788.13559 | 4.978813559 | 5 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0 | | | 12000 | 1 | 12000 | 0.0001 | 2.48940678 | 29872.88136 | 2.987288136 | 3 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0 | | | 23000 | 1 | 23000 | 0.0001 | 2.48940678 | 57256.35593 | 5.725635593 | 5.7 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0 | | | 39000 | 1 | 39000 | 0.0001 | 2.48940678 | 97086.86441 | 9.708686441 | 9.7 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 2.48940678 | 27383.47458 | 2.738347458 | 2.7 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0 | | | 24000 | 1 | 24000 | 0.0001 | 2.48940678 | 59745.76271 | 5.974576271 | 6 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0 | | | 30000 | 1 | 30000 | 0.0001 | 2.48940678 | 74682.20339 | 7.468220339 | 7.5 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0 | | | 6300 | 1 | 6300 | 0.0001 | 2.48940678 | 15683.26271 | 1.568326271 | 1.6 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0 | | | 8900 | 1 | 8900 | 0.0001 | 2.48940678 | 22155.72034 | 2.215572034 | 2.2 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0 | | | 33000 | 1 | 33000 | 0.0001 | 2.48940678 | 82150.42373 | 8.215042373 | 8.2 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0 | | | 6600 | 1 | 6600 | 0.0001 | 2.48940678 | 16430.08475 | 1.643008475 | 1.6 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0 | | | 30000 | 1 | 30000 | 0.0001 | 2.48940678 | 74682.20339 | 7.468220339 | 7.5 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0 | | | 14000 | 1 | 14000 | 0.0001 | 2.48940678 | 34851.69492 | 3.485169492 | 3.5 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0 | | | 32000 | 1 | 32000 | 0.0001 | 2.48940678 | 79661.01695 | 7.966101695 | 8 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0 | | | 27000 | 1 | 27000 | 0.0001 | 2.48940678 | 67213.98305 | 6.721398305 | 6.7 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0 | | | | | | 0.0001 | 2.48940678 | | | |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0 | | | 30000 | 1 | 30000 | 0.0001 | 2.48940678 | 74682.20339 | 7.468220339 | 7.5 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0 | | | 33000 | 1 | 33000 | 0.0001 | 2.48940678 | 82150.42373 | 8.215042373 | 8.2 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 0 | | | 23000 | 1 | 23000 | 0.0001 | 2.48940678 | 57256.35593 | 5.725635593 | 5.7 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0 | | | 23000 | 1 | 23000 | 0.0001 | 2.48940678 | 57256.35593 | 5.725635593 | 5.7 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0 | | | 25000 | 1 | 25000 | 0.0001 | 2.48940678 | 62235.16949 | 6.223516949 | 6.2 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0 | | | 5200 | 1 | 5200 | 0.0001 | 2.48940678 | 12944.91525 | 1.294491525 | 1.3 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0 | | | 21000 | 1 | 21000 | 0.0001 | 2.48940678 | 52277.54237 | 5.227754237 | 5.2 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0 | | | 16000 | 1 | 16000 | 0.0001 | 2.48940678 | 39830.50847 | 3.983050847 | 4 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0 | | | 8200 | 1 | 8200 | 0.0001 | 2.48940678 | 20413.13559 | 2.041313559 | 2 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0 | | | 9500 | 1 | 9500 | 0.0001 | 2.48940678 | 23649.36441 | 2.364936441 | 2.4 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0 | | | 15000 | 1 | 15000 | 0.0001 | 2.48940678 | 37341.10169 | 3.734110169 | 3.7 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0 | | | 18000 | 1 | 18000 | 0.0001 | 2.48940678 | 44809.32203 | 4.480932203 | 4.5 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0 | | | 16000 | 1 | 16000 | 0.0001 | 2.48940678 | 39830.50847 | 3.983050847 | 4 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0 | | | 6600 | 1 | 6600 | 0.0001 | 2.48940678 | 16430.08475 | 1.643008475 | 1.6 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0 | | | 22000 | 1 | 22000 | 0.0001 | 2.48940678 | 54766.94915 | 5.476694915 | 5.5 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0 | | | 12000 | 1 | 12000 | 0.0001 | 2.48940678 | 29872.88136 | 2.987288136 | 3 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0 | | | 10000 | 1 | 10000 | 0.0001 | 2.48940678 | 24894.0678 | 2.48940678 | 2.5 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0 | | | 23000 | 1 | 23000 | 0.0001 | 2.48940678 | 57256.35593 | 5.725635593 | 5.7 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0 | | | 28000 | 1 | 28000 | 0.0001 | 2.48940678 | 69703.38983 | 6.970338983 | 7 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0 | | | 15000 | 1 | 15000 | 0.0001 | 2.48940678 | 37341.10169 | 3.734110169 | 3.7 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0 | | | 16000 | 1 | 16000 | 0.0001 | 2.48940678 | 39830.50847 | 3.983050847 | 4 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0 | | | 14000 | 1 | 14000 | 0.0001 | 2.48940678 | 34851.69492 | 3.485169492 | 3.5 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0 | | | 7900 | 1 | 7900 | 0.0001 | 2.48940678 | 19666.31356 | 1.966631356 | 2 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0 | | | 13000 | 1 | 13000 | 0.0001 | 2.48940678 | 32362.28814 | 3.236228814 | 3.2 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0 | | | 40000 | 1 | 40000 | 0.0001 | 2.48940678 | 99576.27119 | 9.957627119 | 10 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0 | | | 30000 | 1 | 30000 | 0.0001 | 2.48940678 | 74682.20339 | 7.468220339 | 7.5 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0 | | | 14000 | 1 | 14000 | 0.0001 | 2.48940678 | 34851.69492 | 3.485169492 | 3.5 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0 | | | 34000 | 1 | 34000 | 0.0001 | 2.48940678 | 84639.83051 | 8.463983051 | 8.5 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0 | | | 8700 | 1 | 8700 | 0.0001 | 2.48940678 | 21657.83898 | 2.165783898 | 2.2 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0 | | | 16000 | 1 | 16000 | 0.0001 | 2.48940678 | 39830.50847 | 3.983050847 | 4 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0 | | | 17000 | 1 | 17000 | 0.0001 | 2.48940678 | 42319.91525 | 4.231991525 | 4.2 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0 | | | 2300 | 1 | 2300 | 0.0001 | 2.48940678 | 5725.635593 | 0.572563559 | 0.57 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0 | | | 1400 | 0 | 0 | 0.0001 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0 | | | 1500 | 0 | 0 | 0.0001 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0 | | | 1500 | 0 | 0 | 0.0001 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0 | | | 4400 | 1 | 4400 | 0.0001 | 2.48940678 | 10953.38983 | 1.095338983 | 1.1 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0 | | | 1700 | 0 | 0 | 0.0001 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0 | | | 6900 | 1 | 6900 | 0.0001 | 2.48940678 | 17176.90678 | 1.717690678 | 1.7 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0 | | | 8800 | 1 | 8800 | 0.0001 | 2.48940678 | 21906.77966 | 2.190677966 | 2.2 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0 | | | 1700 | 0 | 0 | 0.0001 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | 0 | | | | | | 0.0001 | 2.48940678 | | | |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0 | | | 1900 | 1 | 1900 | 0.0001 | 2.48940678 | 4729.872881 | 0.472987288 | 0.47 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0 | | | 2700 | 1 | 2700 | 0.0001 | 2.48940678 | 6721.398305 | 0.672139831 | 0.67 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0 | | | 1500 | 0 | 0 | 0.0001 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0 | | | 42000 | 1 | 42000 | 0.0001 | 2.48940678 | 104555.0847 | 10.45550847 | 10 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0 | | | 1400 | 0 | 0 | 0.0001 | 2.48940678 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0 | | | 1500 | 0 | 0 | 0.0001 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0 | | | 1600 | 0 | 0 | 0.0001 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0 | | | 1600 | 0 | 0 | 0.0001 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0 | | | 30000 | 1 | 30000 | 0.0001 | 2.48940678 | 74682.20339 | 7.468220339 | 7.5 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | 0 | | | | | | 0.0001 | 2.48940678 | | | |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0 | | | 7900 | 1 | 7900 | 0.0001 | 2.48940678 | 19666.31356 | 1.966631356 | 2 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0 | | | 1600 | 0 | 0 | 0.0001 | 2.48940678 | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0 | | | 2800 | 1 | 2800 | 0.0001 | 2.48940678 | 6970.338983 | 0.697033898 | 0.7 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | 0 | | | | | | 0.0001 | 2.48940678 | | | |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0 | | | 7000 | 1 | 7000 | 0.0001 | 2.48940678 | 17425.84746 | 1.742584746 | 1.7 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0 | | | 34000 | 1 | 34000 | 0.0001 | 2.48940678 | 84639.83051 | 8.463983051 | 8.5 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0 | | | 12000 | 1 | 12000 | 0.0001 | 2.48940678 | 29872.88136 | 2.987288136 | 3 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0 | | | 5600 | 1 | 5600 | 0.0001 | 2.48940678 | 13940.67797 | 1.394067797 | 1.4 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0 | | | 4700 | 1 | 4700 | 0.0001 | 2.48940678 | 11700.21186 | 1.170021186 | 1.2 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0 | | | 4300 | 1 | 4300 | 0.0001 | 2.48940678 | 10704.44915 | 1.070444915 | 1.1 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0 | | | 35000 | 1 | 35000 | 0.0001 | 2.48940678 | 87129.23729 | 8.712923729 | 8.7 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0 | | | 2300 | 1 | 2300 | 0.0001 | 2.48940678 | 5725.635593 | 0.572563559 | 0.57 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0 | | | 9400 | 1 | 9400 | 0.0001 | 2.48940678 | 23400.42373 | 2.340042373 | 2.3 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 2.48940678 | 27383.47458 | 2.738347458 | 2.7 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0 | | | 17000 | 1 | 17000 | 0.0001 | 2.48940678 | 42319.91525 | 4.231991525 | 4.2 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0 | | | 34000 | 1 | 34000 | 0.0001 | 2.48940678 | 84639.83051 | 8.463983051 | 8.5 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0 | | | 16000 | 1 | 16000 | 0.0001 | 2.48940678 | 39830.50847 | 3.983050847 | 4 |
| | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0 | | | 35000 | 1 | 35000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0 | | | 11000 | 1 | 11000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0 | | | 16000 | 1 | 16000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0 | | | 29000 | 1 | 29000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0 | | | 27000 | 1 | 27000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0 | | | 21000 | 1 | 21000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0 | | | 26000 | 1 | 26000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0 | | | 5300 | 1 | 5300 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0 | | | 48000 | 1 | 48000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0 | | | 18000 | 1 | 18000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0 | | | 15000 | 1 | 15000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0 | | | 16000 | 1 | 16000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0 | | | 28000 | 1 | 28000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0 | | | 25000 | 1 | 25000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0 | | | 5900 | 1 | 5900 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0 | | | 19000 | 1 | 19000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0 | | | 8900 | 1 | 8900 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0 | | | 5800 | 1 | 5800 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0 | | | 6300 | 1 | 6300 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0 | | | 42000 | 1 | 42000 | 0.0001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0 | | | 7800 | 1 | 7800 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0 | | | 5000 | 1 | 5000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0 | | | 20000 | 1 | 20000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0 | | | 12000 | 1 | 12000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0 | | | 23000 | 1 | 23000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0 | | | 39000 | 1 | 39000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0 | | | 11000 | 1 | 11000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0 | | | 24000 | 1 | 24000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0 | | | 30000 | 1 | 30000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0 | | | 6300 | 1 | 6300 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0 | | | 8900 | 1 | 8900 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0 | | | 33000 | 1 | 33000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0 | | | 6600 | 1 | 6600 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0 | | | 30000 | 1 | 30000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0 | | | 14000 | 1 | 14000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0 | | | 32000 | 1 | 32000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0 | | | 27000 | 1 | 27000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0 | | | | | | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0 | | | 30000 | 1 | 30000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0 | | | 33000 | 1 | 33000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 0 | | | 23000 | 1 | 23000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0 | | | 23000 | 1 | 23000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0 | | | 25000 | 1 | 25000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0 | | | 5200 | 1 | 5200 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0 | | | 21000 | 1 | 21000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0 | | | 16000 | 1 | 16000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0 | | | 8200 | 1 | 8200 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0 | | | 9500 | 1 | 9500 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0 | | | 15000 | 1 | 15000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0 | | | 18000 | 1 | 18000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0 | | | 16000 | 1 | 16000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0 | | | 6600 | 1 | 6600 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0 | | | 22000 | 1 | 22000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0 | | | 12000 | 1 | 12000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0 | | | 10000 | 1 | 10000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0 | | | 23000 | 1 | 23000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0 | | | 28000 | 1 | 28000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0 | | | 15000 | 1 | 15000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0 | | | 16000 | 1 | 16000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0 | | | 14000 | 1 | 14000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0 | | | 7900 | 1 | 7900 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0 | | | 13000 | 1 | 13000 | 0.0001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0 | | | 40000 | 1 | 40000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0 | | | 30000 | 1 | 30000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0 | | | 14000 | 1 | 14000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0 | | | 34000 | 1 | 34000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0 | | | 8700 | 1 | 8700 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0 | | | 16000 | 1 | 16000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0 | | | 17000 | 1 | 17000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0 | | | 2300 | 1 | 2300 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0 | | | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0 | | | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0 | | | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0 | | | 4400 | 1 | 4400 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0 | | | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0 | | | 6900 | 1 | 6900 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0 | | | 8800 | 1 | 8800 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0 | | | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | 0 | | | | | | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0 | | | 1900 | 1 | 1900 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0 | | | 2700 | 1 | 2700 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0 | | | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0 | | | 42000 | 1 | 42000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0 | | | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0 | | | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0 | | | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0 | | | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0 | | | 30000 | 1 | 30000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicat | 6/26/2007 | SO | 89 | 0 | | | | | | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0 | | | 7900 | 1 | 7900 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0 | | | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0 | | | 2800 | 1 | 2800 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicat | 6/29/2007 | SO | 93 | 0 | | | | | | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0 | | | 7000 | 1 | 7000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0 | | | 34000 | 1 | 34000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0 | | | 12000 | 1 | 12000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0 | | | 5600 | 1 | 5600 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0 | | | 4700 | 1 | 4700 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0 | | | 4300 | 1 | 4300 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0 | | | 35000 | 1 | 35000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0 | | | 2300 | 1 | 2300 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0 | | | 9400 | 1 | 9400 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0 | | | 11000 | 1 | 11000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0 | | | 17000 | 1 | 17000 | 0.0001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0 | | | 34000 | 1 | 34000 | 0.0001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0 | | | 16000 | 1 | 16000 | 0.0001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 9617.458647 | | | 35000 | 1 | 35000 | 0.0001 | 0.03102406 | 1085.842105 | 0.108584211 | 0.11 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 2730.117293 | | | 11000 | 1 | 11000 | 0.0001 | 0.03102406 | 341.2646617 | 0.034126466 | 0.034 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 3412.646617 | | | 16000 | 1 | 16000 | 0.0001 | 0.03102406 | 496.3849624 | 0.049638496 | 0.05 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 8686.736842 | | | 29000 | 1 | 29000 | 0.0001 | 0.03102406 | 899.6977444 | 0.089969774 | 0.09 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 6204.81203 | | | 27000 | 1 | 27000 | 0.0001 | 0.03102406 | 837.6496241 | 0.083764962 | 0.084 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 4963.849624 | | | 21000 | 1 | 21000 | 0.0001 | 0.03102406 | 651.5052632 | 0.065150526 | 0.065 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 5584.330827 | | | 26000 | 1 | 26000 | 0.0001 | 0.03102406 | 806.6255639 | 0.080662556 | 0.081 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 1954.515789 | | | 5300 | 1 | 5300 | 0.0001 | 0.03102406 | 164.4275188 | 0.016442752 | 0.016 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 13030.10526 | | | 48000 | 1 | 48000 | 0.0001 | 0.03102406 | 1489.154887 | 0.148915489 | 0.15 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 4653.609023 | | | 18000 | 1 | 18000 | 0.0001 | 0.03102406 | 558.4330827 | 0.055843308 | 0.056 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 4653.609023 | | | 15000 | 1 | 15000 | 0.0001 | 0.03102406 | 465.3609023 | 0.04653609 | 0.047 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 4963.849624 | | | 16000 | 1 | 16000 | 0.0001 | 0.03102406 | 496.3849624 | 0.049638496 | 0.05 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7445.774436 | | | 28000 | 1 | 28000 | 0.0001 | 0.03102406 | 868.6736842 | 0.086867368 | 0.087 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 5584.330827 | | | 25000 | 1 | 25000 | 0.0001 | 0.03102406 | 775.6015038 | 0.07756015 | 0.078 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1613.251128 | | | 5900 | 1 | 5900 | 0.0001 | 0.03102406 | 183.0419549 | 0.018304195 | 0.018 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 5274.090226 | | | 19000 | 1 | 19000 | 0.0001 | 0.03102406 | 589.4571429 | 0.058945714 | 0.059 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 2233.732331 | | | 8900 | 1 | 8900 | 0.0001 | 0.03102406 | 276.1141353 | 0.027611414 | 0.028 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1675.299248 | | | 5800 | 1 | 5800 | 0.0001 | 0.03102406 | 179.9395489 | 0.017993955 | 0.018 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 1551.203008 | | | 6300 | 1 | 6300 | 0.0001 | 0.03102406 | 195.4515789 | 0.019545158 | 0.02 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 11168.66165 | | | 42000 | 1 | 42000 | 0.0001 | 0.03102406 | 1303.010526 | 0.130301053 | 0.13 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 2823.189474 | | | 7800 | 1 | 7800 | 0.0001 | 0.03102406 | 241.9876692 | 0.024198767 | 0.024 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 1489.154887 | | | 5000 | 1 | 5000 | 0.0001 | 0.03102406 | 155.1203008 | 0.01551203 | 0.016 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 4963.849624 | | | 20000 | 1 | 20000 | 0.0001 | 0.03102406 | 620.481203 | 0.06204812 | 0.062 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 3412.646617 | | | 12000 | 1 | 12000 | 0.0001 | 0.03102406 | 372.2887218 | 0.037228872 | 0.037 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7756.015038 | | | 23000 | 1 | 23000 | 0.0001 | 0.03102406 | 713.5533835 | 0.071355338 | 0.071 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 11478.90226 | | | 39000 | 1 | 39000 | 0.0001 | 0.03102406 | 1209.938346 | 0.120993835 | 0.12 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 3412.646617 | | | 11000 | 1 | 11000 | 0.0001 | 0.03102406 | 341.2646617 | 0.034126466 | 0.034 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 6515.052632 | | | 24000 | 1 | 24000 | 0.0001 | 0.03102406 | 744.5774436 | 0.074457744 | 0.074 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 8066.255639 | | | 30000 | 1 | 30000 | 0.0001 | 0.03102406 | 930.7218045 | 0.09307218 | 0.093 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 1923.491729 | | | 6300 | 1 | 6300 | 0.0001 | 0.03102406 | 195.4515789 | 0.019545158 | 0.02 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 2419.876692 | | | 8900 | 1 | 8900 | 0.0001 | 0.03102406 | 276.1141353 | 0.027611414 | 0.028 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 9307.218045 | | | 33000 | 1 | 33000 | 0.0001 | 0.03102406 | 1023.793985 | 0.102379398 | 0.1 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 2202.708271 | | | 6600 | 1 | 6600 | 0.0001 | 0.03102406 | 204.758797 | 0.02047588 | 0.02 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 8376.496241 | | | 30000 | 1 | 30000 | 0.0001 | 0.03102406 | 930.7218045 | 0.09307218 | 0.093 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 4343.368421 | | | 14000 | 1 | 14000 | 0.0001 | 0.03102406 | 434.3368421 | 0.043433684 | 0.043 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 10237.93985 | | | 32000 | 1 | 32000 | 0.0001 | 0.03102406 | 992.7699248 | 0.099276992 | 0.099 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 8996.977444 | | | 27000 | 1 | 27000 | 0.0001 | 0.03102406 | 837.6496241 | 0.083764962 | 0.084 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | | | | 0.0001 | 0.03102406 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7135.533835 | | | 30000 | 1 | 30000 | 0.0001 | 0.03102406 | 930.7218045 | 0.09307218 | 0.093 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 6515.052632 | | | 33000 | 1 | 33000 | 0.0001 | 0.03102406 | 1023.793985 | 0.102379398 | 0.1 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 6515.052632 | | | 23000 | 1 | 23000 | 0.0001 | 0.03102406 | 713.5533835 | 0.071355338 | 0.071 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 7135.533835 | | | 23000 | 1 | 23000 | 0.0001 | 0.03102406 | 713.5533835 | 0.071355338 | 0.071 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 7135.533835 | | | 25000 | 1 | 25000 | 0.0001 | 0.03102406 | 775.6015038 | 0.07756015 | 0.078 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 1985.53985 | | | 5200 | 1 | 5200 | 0.0001 | 0.03102406 | 161.3251128 | 0.016132511 | 0.016 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 6204.81203 | | | 21000 | 1 | 21000 | 0.0001 | 0.03102406 | 651.5052632 | 0.065150526 | 0.065 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 5584.330827 | | | 16000 | 1 | 16000 | 0.0001 | 0.03102406 | 496.3849624 | 0.049638496 | 0.05 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 2854.213534 | | | 8200 | 1 | 8200 | 0.0001 | 0.03102406 | 254.3972932 | 0.025439729 | 0.025 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 3722.887218 | | | 9500 | 1 | 9500 | 0.0001 | 0.03102406 | 294.7285714 | 0.029472857 | 0.029 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4343.368421 | | | 15000 | 1 | 15000 | 0.0001 | 0.03102406 | 465.3609023 | 0.04653609 | 0.047 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 5274.090226 | | | 18000 | 1 | 18000 | 0.0001 | 0.03102406 | 558.4330827 | 0.055843308 | 0.056 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 4963.849624 | | | 16000 | 1 | 16000 | 0.0001 | 0.03102406 | 496.3849624 | 0.049638496 | 0.05 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 2109.63609 | | | 6600 | 1 | 6600 | 0.0001 | 0.03102406 | 204.758797 | 0.02047588 | 0.02 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 5274.090226 | | | 22000 | 1 | 22000 | 0.0001 | 0.03102406 | 682.5293233 | 0.068252932 | 0.068 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 2792.165414 | | | 12000 | 1 | 12000 | 0.0001 | 0.03102406 | 372.2887218 | 0.037228872 | 0.037 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 2606.021053 | | | 10000 | 1 | 10000 | 0.0001 | 0.03102406 | 310.2406015 | 0.03102406 | 0.031 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 7445.774436 | | | 23000 | 1 | 23000 | 0.0001 | 0.03102406 | 713.5533835 | 0.071355338 | 0.071 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 6825.293233 | | | 28000 | 1 | 28000 | 0.0001 | 0.03102406 | 868.6736842 | 0.086867368 | 0.087 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4033.12782 | | | 15000 | 1 | 15000 | 0.0001 | 0.03102406 | 465.3609023 | 0.04653609 | 0.047 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 4033.12782 | | | 16000 | 1 | 16000 | 0.0001 | 0.03102406 | 496.3849624 | 0.049638496 | 0.05 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3412.646617 | | | 14000 | 1 | 14000 | 0.0001 | 0.03102406 | 434.3368421 | 0.043433684 | 0.043 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 2202.708271 | | | 7900 | 1 | 7900 | 0.0001 | 0.03102406 | 245.0900752 | 0.024509008 | 0.025 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4963.849624 | | | 13000 | 1 | 13000 | 0.0001 | 0.03102406 | 403.312782 | 0.040331278 | 0.04 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 9307.218045 | | | 40000 | 1 | 40000 | 0.0001 | 0.03102406 | 1240.962406 | 0.124096241 | 0.12 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 9617.458647 | | | 30000 | 1 | 30000 | 0.0001 | 0.03102406 | 930.7218045 | 0.09307218 | 0.093 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 4033.12782 | | | 14000 | 1 | 14000 | 0.0001 | 0.03102406 | 434.3368421 | 0.043433684 | 0.043 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 9927.699248 | | | 34000 | 1 | 34000 | 0.0001 | 0.03102406 | 1054.818045 | 0.105481805 | 0.11 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 2481.924812 | | | 8700 | 1 | 8700 | 0.0001 | 0.03102406 | 269.9093233 | 0.026990932 | 0.027 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 4963.849624 | | | 16000 | 1 | 16000 | 0.0001 | 0.03102406 | 496.3849624 | 0.049638496 | 0.05 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 5584.330827 | | | 17000 | 1 | 17000 | 0.0001 | 0.03102406 | 527.4090226 | 0.052740902 | 0.053 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 620.481203 | | | 2300 | 1 | 2300 | 0.0001 | 0.03102406 | 71.35533835 | 0.007135534 | 0.0071 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0 | | | 1400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 465.3609023 | | | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0 | | | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1303.010526 | | | 4400 | 1 | 4400 | 0.0001 | 0.03102406 | 136.5058647 | 0.013650586 | 0.014 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 161.3251128 | | | 1700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 1861.443609 | | | 6900 | 1 | 6900 | 0.0001 | 0.03102406 | 214.066015 | 0.021406602 | 0.021 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 2637.045113 | | | 8800 | 1 | 8800 | 0.0001 | 0.03102406 | 273.0117293 | 0.027301173 | 0.027 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 403.312782 | | | 1700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | | | | 0.0001 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 558.4330827 | | | 1900 | 1 | 1900 | 0.0001 | 0.03102406 | 58.94571429 | 0.005894571 | 0.0059 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 930.7218045 | | | 2700 | 1 | 2700 | 0.0001 | 0.03102406 | 83.76496241 | 0.008376496 | 0.0084 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 120.9938346 | | | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 11478.90226 | | | 42000 | 1 | 42000 | 0.0001 | 0.03102406 | 1303.010526 | 0.130301053 | 0.13 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0 | | | 1400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 99.27699248 | | | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 434.3368421 | | | 1600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 263.7045113 | | | 1600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 8531.616541 | | | 30000 | 1 | 30000 | 0.0001 | 0.03102406 | 930.7218045 | 0.09307218 | 0.093 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | | | | 0.0001 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2699.093233 | | | 7900 | 1 | 7900 | 0.0001 | 0.03102406 | 245.0900752 | 0.024509008 | 0.025 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 310.2406015 | | | 1600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 822.137594 | | | 2800 | 1 | 2800 | 0.0001 | 0.03102406 | 86.86736842 | 0.008686737 | 0.0087 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | | | | 0.0001 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 2326.804511 | | | 7000 | 1 | 7000 | 0.0001 | 0.03102406 | 217.1684211 | 0.021716842 | 0.022 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 11168.66165 | | | 34000 | 1 | 34000 | 0.0001 | 0.03102406 | 1054.818045 | 0.105481805 | 0.11 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4033.12782 | | | 12000 | 1 | 12000 | 0.0001 | 0.03102406 | 372.2887218 | 0.037228872 | 0.037 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 1365.058647 | | | 5600 | 1 | 5600 | 0.0001 | 0.03102406 | 173.7347368 | 0.017373474 | 0.017 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 1365.058647 | | | 4700 | 1 | 4700 | 0.0001 | 0.03102406 | 145.8130827 | 0.014581308 | 0.015 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 1334.034586 | | | 4300 | 1 | 4300 | 0.0001 | 0.03102406 | 133.4034586 | 0.013340346 | 0.013 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 10858.42105 | | | 35000 | 1 | 35000 | 0.0001 | 0.03102406 | 1085.842105 | 0.108584211 | 0.11 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 961.7458647 | | | 2300 | 1 | 2300 | 0.0001 | 0.03102406 | 71.35533835 | 0.007135534 | 0.0071 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 2885.237594 | | | 9400 | 1 | 9400 | 0.0001 | 0.03102406 | 291.6261654 | 0.029162617 | 0.029 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3412.646617 | | | 11000 | 1 | 11000 | 0.0001 | 0.03102406 | 341.2646617 | 0.034126466 | 0.034 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 4033.12782 | | | 17000 | 1 | 17000 | 0.0001 | 0.03102406 | 527.4090226 | 0.052740902 | 0.053 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 9307.218045 | | | 34000 | 1 | 34000 | 0.0001 | 0.03102406 | 1054.818045 | 0.105481805 | 0.11 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 4963.849624 | | | 16000 | 1 | 16000 | 0.0001 | 0.03102406 | 496.3849624 | 0.049638496 | 0.05 |
| | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | | | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | | | | | | 0.0001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | | | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | | | 15000 | 1 | 15000 | 0.0001 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | | | 3600 | 1 | 3600 | 0.0001 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | | | 5400 | 1 | 5400 | 0.0001 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | | | 11000 | 1 | 11000 | 0.0001 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | | | 17000 | 1 | 17000 | 0.0001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | | | 11000 | 1 | 11000 | 0.0001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | | | 8800 | 1 | 8800 | 0.0001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | | | | | | 0.0001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | | | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | | | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | | | 3500 | 1 | 3500 | 0.0001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | | | 1600 | 0 | 0 | 0.0001 | 2.831984527 | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | | | | | | 0.0001 | 2.831984527 | | | |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | | | 2100 | 0 | 0 | 0.0001 | 2.831984527 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | | | 15000 | 1 | 15000 | 0.0001 | 2.831984527 | 42479.7679 | 4.24797679 | 4.2 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | | | 3600 | 1 | 3600 | 0.0001 | 2.831984527 | 10195.1443 | 1.01951443 | 1 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | | | 5400 | 1 | 5400 | 0.0001 | 2.831984527 | 15292.71645 | 1.529271645 | 1.5 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 2.831984527 | 31151.8298 | 3.11518298 | 3.1 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | | | 17000 | 1 | 17000 | 0.0001 | 2.831984527 | 48143.73696 | 4.814373696 | 4.8 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 2.831984527 | 31151.8298 | 3.11518298 | 3.1 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | | | 8800 | 1 | 8800 | 0.0001 | 2.831984527 | 24921.46384 | 2.492146384 | 2.5 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | | | | | | 0.0001 | 2.831984527 | | | |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | | | 5800 | 0 | 0 | 0.0001 | 2.831984527 | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | | | 1800 | 0 | 0 | 0.0001 | 2.831984527 | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | | | 3500 | 1 | 3500 | 0.0001 | 2.831984527 | 9911.945844 | 0.991194584 | 0.99 |
| | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | | | 1600 | 0 | 0 | 0.0001 | 0.647665854 | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | | | | | | 0.0001 | 0.647665854 | | | |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | | | 2100 | 0 | 0 | 0.0001 | 0.647665854 | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | | | 15000 | 1 | 15000 | 0.0001 | 0.647665854 | 9714.987817 | 0.971498782 | 0.97 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | | | 3600 | 1 | 3600 | 0.0001 | 0.647665854 | 2331.597076 | 0.233159708 | 0.23 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | | | 5400 | 1 | 5400 | 0.0001 | 0.647665854 | 3497.395614 | 0.349739561 | 0.35 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 0.647665854 | 7124.324399 | 0.71243244 | 0.71 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | | | 17000 | 1 | 17000 | 0.0001 | 0.647665854 | 11010.31953 | 1.101031953 | 1.1 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 0.647665854 | 7124.324399 | 0.71243244 | 0.71 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | | | 8800 | 1 | 8800 | 0.0001 | 0.647665854 | 5699.459519 | 0.569945952 | 0.57 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | | | | | | 0.0001 | 0.647665854 | | | |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | | | 5800 | 0 | 0 | 0.0001 | 0.647665854 | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | | | 1800 | 0 | 0 | 0.0001 | 0.647665854 | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | | | 3500 | 1 | 3500 | 0.0001 | 0.647665854 | 2266.830491 | 0.226683049 | 0.23 |
| | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | | | 1600 | 0 | 0 | 0.0001 | 17.59959744 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | | | | | | 0.0001 | 17.59959744 | | | |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | | | 2100 | 0 | 0 | 0.0001 | 17.59959744 | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | | | 15000 | 1 | 15000 | 0.0001 | 17.59959744 | 263993.9616 | 26.39939616 | 26 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | | | 3600 | 1 | 3600 | 0.0001 | 17.59959744 | 63358.55077 | 6.335855077 | 6.3 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | | | 5400 | 1 | 5400 | 0.0001 | 17.59959744 | 95037.82616 | 9.503782616 | 9.5 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 17.59959744 | 193595.5718 | 19.35955718 | 19 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | | | 17000 | 1 | 17000 | 0.0001 | 17.59959744 | 299193.1564 | 29.91931564 | 30 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 17.59959744 | 193595.5718 | 19.35955718 | 19 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | | | 8800 | 1 | 8800 | 0.0001 | 17.59959744 | 154876.4574 | 15.48764574 | 15 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | | | | | | 0.0001 | 17.59959744 | | | |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | | | 5800 | 0 | 0 | 0.0001 | 17.59959744 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | | | 1800 | 0 | 0 | 0.0001 | 17.59959744 | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | | | 3500 | 1 | 3500 | 0.0001 | 17.59959744 | 61598.59103 | 6.159859103 | 6.2 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | | | 1600 | 0 | 0 | 0.0001 | 15.36036613 | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | | | | | | 0.0001 | 15.36036613 | | | |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | | | 2100 | 0 | 0 | 0.0001 | 15.36036613 | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | | | 15000 | 1 | 15000 | 0.0001 | 15.36036613 | 230405.492 | 23.0405492 | 23 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | | | 3600 | 1 | 3600 | 0.0001 | 15.36036613 | 55297.31808 | 5.529731808 | 5.5 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | | | 5400 | 1 | 5400 | 0.0001 | 15.36036613 | 82945.97711 | 8.294597711 | 8.3 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 15.36036613 | 168964.0275 | 16.89640275 | 17 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | | | 17000 | 1 | 17000 | 0.0001 | 15.36036613 | 261126.2242 | 26.11262242 | 26 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 15.36036613 | 168964.0275 | 16.89640275 | 17 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | | | 8800 | 1 | 8800 | 0.0001 | 15.36036613 | 135171.222 | 13.5171222 | 14 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | | | | | | 0.0001 | 15.36036613 | | | |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | | | 5800 | 0 | 0 | 0.0001 | 15.36036613 | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | | | 1800 | 0 | 0 | 0.0001 | 15.36036613 | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | | | 3500 | 1 | 3500 | 0.0001 | 15.36036613 | 53761.28146 | 5.376128146 | 5.4 |
| | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | | | 1600 | 0 | 0 | 0.0001 | 13.60544218 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | | | | | | 0.0001 | 13.60544218 | | | |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | | | 2100 | 0 | 0 | 0.0001 | 13.60544218 | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | | | 15000 | 1 | 15000 | 0.0001 | 13.60544218 | 204081.6327 | 20.40816327 | 20 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | | | 3600 | 1 | 3600 | 0.0001 | 13.60544218 | 48979.59184 | 4.897959184 | 4.9 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | | | 5400 | 1 | 5400 | 0.0001 | 13.60544218 | 73469.38776 | 7.346938776 | 7.3 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 13.60544218 | 149659.8639 | 14.96598639 | 15 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | | | 17000 | 1 | 17000 | 0.0001 | 13.60544218 | 231292.517 | 23.1292517 | 23 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 13.60544218 | 149659.8639 | 14.96598639 | 15 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | | | 8800 | 1 | 8800 | 0.0001 | 13.60544218 | 119727.8912 | 11.97278912 | 12 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | | | | | | 0.0001 | 13.60544218 | | | |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | | | 5800 | 0 | 0 | 0.0001 | 13.60544218 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | | | 1800 | 0 | 0 | 0.0001 | 13.60544218 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | | | 3500 | 1 | 3500 | 0.0001 | 13.60544218 | 47619.04762 | 4.761904762 | 4.8 |
| | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | | | 1600 | 0 | 0 | 0.0001 | 26.25238249 | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | | | | | | 0.0001 | 26.25238249 | | | |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | | | 2100 | 0 | 0 | 0.0001 | 26.25238249 | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | | | 15000 | 1 | 15000 | 0.0001 | 26.25238249 | 393785.7374 | 39.37857374 | 39 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | | | 3600 | 1 | 3600 | 0.0001 | 26.25238249 | 94508.57698 | 9.450857698 | 9.5 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | | | 5400 | 1 | 5400 | 0.0001 | 26.25238249 | 141762.8655 | 14.17628655 | 14 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 26.25238249 | 288776.2074 | 28.87762074 | 29 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | | | 17000 | 1 | 17000 | 0.0001 | 26.25238249 | 446290.5024 | 44.62905024 | 45 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 26.25238249 | 288776.2074 | 28.87762074 | 29 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | | | 8800 | 1 | 8800 | 0.0001 | 26.25238249 | 231020.9659 | 23.10209659 | 23 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | | | | | | 0.0001 | 26.25238249 | | | |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | | | 5800 | 0 | 0 | 0.0001 | 26.25238249 | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | | | 1800 | 0 | 0 | 0.0001 | 26.25238249 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | | | 3500 | 1 | 3500 | 0.0001 | 26.25238249 | 91883.33873 | 9.188333873 | 9.2 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | | | 1600 | 0 | 0 | 0.0001 | 4.004004004 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | | | | | | 0.0001 | 4.004004004 | | | |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | | | 2100 | 0 | 0 | 0.0001 | 4.004004004 | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | | | 15000 | 1 | 15000 | 0.0001 | 4.004004004 | 60060.06006 | 6.006006006 | 6 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | | | 3600 | 1 | 3600 | 0.0001 | 4.004004004 | 14414.41441 | 1.441441441 | 1.4 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | | | 5400 | 1 | 5400 | 0.0001 | 4.004004004 | 21621.62162 | 2.162162162 | 2.2 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 4.004004004 | 44044.04404 | 4.404404404 | 4.4 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | | | 17000 | 1 | 17000 | 0.0001 | 4.004004004 | 68068.06807 | 6.806806807 | 6.8 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 4.004004004 | 44044.04404 | 4.404404404 | 4.4 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | | | 8800 | 1 | 8800 | 0.0001 | 4.004004004 | 35235.23524 | 3.523523524 | 3.5 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | | | | | | 0.0001 | 4.004004004 | | | |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | | | 5800 | 0 | 0 | 0.0001 | 4.004004004 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | | | 1800 | 0 | 0 | 0.0001 | 4.004004004 | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | | | 3500 | 1 | 3500 | 0.0001 | 4.004004004 | 14014.01401 | 1.401401401 | 1.4 |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | | | 1600 | 0 | 0 | 0.0001 | 16.38001638 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | | | | | | 0.0001 | 16.38001638 | | | |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | | | 2100 | 0 | 0 | 0.0001 | 16.38001638 | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | | | 15000 | 1 | 15000 | 0.0001 | 16.38001638 | 245700.2457 | 24.57002457 | 25 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | | | 3600 | 1 | 3600 | 0.0001 | 16.38001638 | 58968.05897 | 5.896805897 | 5.9 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | | | 5400 | 1 | 5400 | 0.0001 | 16.38001638 | 88452.08845 | 8.845208845 | 8.8 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 16.38001638 | 180180.1802 | 18.01801802 | 18 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | | | 17000 | 1 | 17000 | 0.0001 | 16.38001638 | 278460.2785 | 27.84602785 | 28 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 16.38001638 | 180180.1802 | 18.01801802 | 18 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | | | 8800 | 1 | 8800 | 0.0001 | 16.38001638 | 144144.1441 | 14.41441441 | 14 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | | | | | | 0.0001 | 16.38001638 | | | |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | | | 5800 | 0 | 0 | 0.0001 | 16.38001638 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | | | 1800 | 0 | 0 | 0.0001 | 16.38001638 | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | | | 3500 | 1 | 3500 | 0.0001 | 16.38001638 | 57330.05733 | 5.733005733 | 5.7 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | | | 1600 | 0 | 0 | 0.0001 | 8.378718056 | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | | | | | | 0.0001 | 8.378718056 | | | |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | | | 2100 | 0 | 0 | 0.0001 | 8.378718056 | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | | | 15000 | 1 | 15000 | 0.0001 | 8.378718056 | 125680.7708 | 12.56807708 | 13 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | | | 3600 | 1 | 3600 | 0.0001 | 8.378718056 | 30163.385 | 3.0163385 | 3 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | | | 5400 | 1 | 5400 | 0.0001 | 8.378718056 | 45245.0775 | 4.52450775 | 4.5 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 8.378718056 | 92165.89862 | 9.216589862 | 9.2 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | | | 17000 | 1 | 17000 | 0.0001 | 8.378718056 | 142438.207 | 14.2438207 | 14 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 8.378718056 | 92165.89862 | 9.216589862 | 9.2 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | | | 8800 | 1 | 8800 | 0.0001 | 8.378718056 | 73732.71889 | 7.373271889 | 7.4 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | | | | | | 0.0001 | 8.378718056 | | | |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | | | 5800 | 0 | 0 | 0.0001 | 8.378718056 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#153 | | | BZ#156 | | | | BZ#156 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | | | 1800 | 0 | 0 | 0.0001 | 8.378718056 | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | | | 3500 | 1 | 3500 | 0.0001 | 8.378718056 | 29325.5132 | 2.93255132 | 2.9 |
| | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | | | 1600 | 0 | 0 | 0.0001 | 14.01488998 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | | | | | | 0.0001 | 14.01488998 | | | |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | | | 2100 | 0 | 0 | 0.0001 | 14.01488998 | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | | | 15000 | 1 | 15000 | 0.0001 | 14.01488998 | 210223.3498 | 21.02233498 | 21 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | | | 3600 | 1 | 3600 | 0.0001 | 14.01488998 | 50453.60394 | 5.045360394 | 5 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | | | 5400 | 1 | 5400 | 0.0001 | 14.01488998 | 75680.40592 | 7.568040592 | 7.6 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 14.01488998 | 154163.7898 | 15.41637898 | 15 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | | | 17000 | 1 | 17000 | 0.0001 | 14.01488998 | 238253.1297 | 23.82531297 | 24 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | | | 11000 | 1 | 11000 | 0.0001 | 14.01488998 | 154163.7898 | 15.41637898 | 15 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | | | 8800 | 1 | 8800 | 0.0001 | 14.01488998 | 123331.0319 | 12.33310319 | 12 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | | | | | | 0.0001 | 14.01488998 | | | |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | | | 5800 | 0 | 0 | 0.0001 | 14.01488998 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | | | 1800 | 0 | 0 | 0.0001 | 14.01488998 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | | | 3500 | 1 | 3500 | 0.0001 | 14.01488998 | 49052.11495 | 4.905211495 | 4.9 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 34000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5700 | 1 | 5700 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 10000 | 1 | 10000 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00001 | NA |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 1 | 8600 | 0.0001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8900 | 1 | 8900 | 0.0001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 17000 | 1 | 17000 | 0.0001 | NA | 0 | 0 | 0 | 24000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 4500 | 1 | 4500 | 0.0001 | NA | 0 | 0 | 0 | 6600 | 1 | 6600 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 9400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7000 | 1 | 7000 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 8200 | 1 | 8200 | 0.0001 | NA | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 10000 | 1 | 10000 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1800 | 1 | 1800 | 0.0001 | NA | 0 | 0 | 0 | 2700 | 1 | 2700 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 8800 | 1 | 8800 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 3000 | 1 | 3000 | 0.0001 | NA | 0 | 0 | 0 | 4100 | 1 | 4100 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2200 | 1 | 2200 | 0.0001 | NA | 0 | 0 | 0 | 3700 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 6800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 1 | 3900 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6400 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6800 | 1 | 6800 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 8200 | 1 | 8200 | 0.0001 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 34000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 10000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6200 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3500 | 1 | 3500 | 0.0001 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 12000 | 1 | 12000 | 0.0001 | NA | 0 | 0 | 0 | 22000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 31000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 11000 | 1 | 11000 | 0.0001 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 9550 | 1 | 9550 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9700 | 1 | 9700 | 0.0001 | NA | 0 | 0 | 0 | 15000 | 1 | 15000 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 11000 | 1 | 11000 | 0.0001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 8000 | 1 | 8000 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 18000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 5600 | 1 | 5600 | 0.0001 | NA | 0 | 0 | 0 | 9900 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5600 | 1 | 5600 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 2400 | 1 | 2400 | 0.0001 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 7200 | 1 | 7200 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3700 | 1 | 3700 | 0.0001 | NA | 0 | 0 | 0 | 6200 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 9600 | 1 | 9600 | 0.0001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 5200 | 1 | 5200 | 0.0001 | NA | 0 | 0 | 0 | 9000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 5100 | 1 | 5100 | 0.0001 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7300 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9700 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 32000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 12000 | 1 | 12000 | 0.0001 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 10000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 37000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 8900 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 1 | 5600 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.00001 | NA |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 29000 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | 0.00001 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 5900 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 3100 | 1 | 3100 | 0.0001 | NA | 0 | 0 | 0 | 4100 | 1 | 4100 | 0.00001 | NA |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9800 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6400 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.00001 | NA |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 35000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3800 | 1 | 3800 | 0.0001 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00001 | NA |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.00001 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 34000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5700 | 1 | 5700 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 10000 | 1 | 10000 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 1 | 14000 | 0.00001 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 1 | 8600 | 0.0001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8900 | 1 | 8900 | 0.0001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 17000 | 1 | 17000 | 0.0001 | NA | 0 | 0 | 0 | 24000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 4500 | 1 | 4500 | 0.0001 | NA | 0 | 0 | 0 | 6600 | 1 | 6600 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 9400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7000 | 1 | 7000 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 8200 | 1 | 8200 | 0.0001 | NA | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 10000 | 1 | 10000 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1800 | 1 | 1800 | 0.0001 | NA | 0 | 0 | 0 | 2700 | 1 | 2700 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 8800 | 1 | 8800 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 3000 | 1 | 3000 | 0.0001 | NA | 0 | 0 | 0 | 4100 | 1 | 4100 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2200 | 1 | 2200 | 0.0001 | NA | 0 | 0 | 0 | 3700 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00001 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 6800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 1 | 3900 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6400 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6800 | 1 | 6800 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 8200 | 1 | 8200 | 0.0001 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 34000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 10000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6200 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3500 | 1 | 3500 | 0.0001 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 12000 | 1 | 12000 | 0.0001 | NA | 0 | 0 | 0 | 22000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 31000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 11000 | 1 | 11000 | 0.0001 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 9550 | 1 | 9550 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 1 | 13000 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9700 | 1 | 9700 | 0.0001 | NA | 0 | 0 | 0 | 15000 | 1 | 15000 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 11000 | 1 | 11000 | 0.0001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 8000 | 1 | 8000 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 18000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 5600 | 1 | 5600 | 0.0001 | NA | 0 | 0 | 0 | 9900 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5600 | 1 | 5600 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 2400 | 1 | 2400 | 0.0001 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 7200 | 1 | 7200 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3700 | 1 | 3700 | 0.0001 | NA | 0 | 0 | 0 | 6200 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 9600 | 1 | 9600 | 0.0001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 5200 | 1 | 5200 | 0.0001 | NA | 0 | 0 | 0 | 9000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 5100 | 1 | 5100 | 0.0001 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7300 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9700 | 0 | 0 | 0.00001 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 32000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 12000 | 1 | 12000 | 0.0001 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 10000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 37000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 8900 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 1 | 5600 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 29000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2800 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 27000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 5900 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 3100 | 1 | 3100 | 0.0001 | NA | 0 | 0 | 0 | 4100 | 1 | 4100 | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9800 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6400 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 35000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3800 | 1 | 3800 | 0.0001 | NA | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.00001 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00001 | NA |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.00001 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 34000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5700 | 1 | 5700 | 0.0001 | 0.03102406 | 176.8371429 | 0.017683714 | 0.018 | 11000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 10000 | 1 | 10000 | 0.0001 | 0.03102406 | 310.2406015 | 0.03102406 | 0.031 | 14000 | 1 | 14000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 1 | 8600 | 0.0001 | 0.03102406 | 266.8069173 | 0.026680692 | 0.027 | 17000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8900 | 1 | 8900 | 0.0001 | 0.03102406 | 276.1141353 | 0.027611414 | 0.028 | 17000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 17000 | 1 | 17000 | 0.0001 | 0.03102406 | 527.4090226 | 0.052740902 | 0.053 | 24000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 4500 | 1 | 4500 | 0.0001 | 0.03102406 | 139.6082707 | 0.013960827 | 0.014 | 6600 | 1 | 6600 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 9400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 7000 | 1 | 7000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 8200 | 1 | 8200 | 0.0001 | 0.03102406 | 254.3972932 | 0.025439729 | 0.025 | 12000 | 1 | 12000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 15000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 10000 | 1 | 10000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1800 | 1 | 1800 | 0.0001 | 0.03102406 | 55.84330827 | 0.005584331 | 0.0056 | 2700 | 1 | 2700 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 15000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 8800 | 1 | 8800 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 3000 | 1 | 3000 | 0.0001 | 0.03102406 | 93.07218045 | 0.009307218 | 0.0093 | 4100 | 1 | 4100 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 2200 | 1 | 2200 | 0.0001 | 0.03102406 | 68.25293233 | 0.006825293 | 0.0068 | 3700 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 6800 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 3900 | 1 | 3900 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 6400 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6800 | 1 | 6800 | 0.0001 | 0.03102406 | 210.963609 | 0.021096361 | 0.021 | 13000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 8200 | 1 | 8200 | 0.0001 | 0.03102406 | 254.3972932 | 0.025439729 | 0.025 | 16000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 34000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 6200 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3500 | 1 | 3500 | 0.0001 | 0.03102406 | 108.5842105 | 0.010858421 | 0.011 | 6800 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 12000 | 1 | 12000 | 0.0001 | 0.03102406 | 372.2887218 | 0.037228872 | 0.037 | 22000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 31000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 11000 | 1 | 11000 | 0.0001 | 0.03102406 | 341.2646617 | 0.034126466 | 0.034 | 19000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 9550 | 1 | 9550 | 0.0001 | 0.03102406 | 296.2797744 | 0.029627977 | 0.03 | 13000 | 1 | 13000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.0001 | 0.03102406 | | | | | | | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 9700 | 1 | 9700 | 0.0001 | 0.03102406 | 300.9333835 | 0.030093338 | 0.03 | 15000 | 1 | 15000 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 11000 | 1 | 11000 | 0.0001 | 0.03102406 | 341.2646617 | 0.034126466 | 0.034 | 17000 | 0 | 0 | 0.00001 | 0.03102406 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | /Field Duplic | 3/12/2009 | SO | 41 | 8000 | 1 | 8000 | 0.0001 | 0.03102406 | 248.1924812 | 0.024819248 | 0.025 | 13000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 18000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 9400 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 5600 | 1 | 5600 | 0.0001 | 0.03102406 | 173.7347368 | 0.017373474 | 0.017 | 9900 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5600 | 1 | 5600 | 0.0001 | 0.03102406 | 173.7347368 | 0.017373474 | 0.017 | 11000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 2400 | 1 | 2400 | 0.0001 | 0.03102406 | 74.45774436 | 0.007445774 | 0.0074 | 3600 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 7200 | 1 | 7200 | 0.0001 | 0.03102406 | 223.3732331 | 0.022337323 | 0.022 | 14000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 9400 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3700 | 1 | 3700 | 0.0001 | 0.03102406 | 114.7890226 | 0.011478902 | 0.011 | 6200 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 9600 | 1 | 9600 | 0.0001 | 0.03102406 | 297.8309774 | 0.029783098 | 0.03 | 17000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 5200 | 1 | 5200 | 0.0001 | 0.03102406 | 161.3251128 | 0.016132511 | 0.016 | 9000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 5100 | 1 | 5100 | 0.0001 | 0.03102406 | 158.2227068 | 0.015822271 | 0.016 | 7400 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 7300 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 9700 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 32000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 12000 | 1 | 12000 | 0.0001 | 0.03102406 | 372.2887218 | 0.037228872 | 0.037 | 16000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 37000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 8900 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 1 | 5600 | 0.0001 | 0.03102406 | 173.7347368 | 0.017373474 | 0.017 | 11000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 2800 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.0001 | 0.03102406 | | | | | | | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 3100 | 1 | 3100 | 0.00001 | 0.03102406 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 29000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 2800 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 27000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.0001 | 0.03102406 | | | | | | | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 5900 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.0001 | 0.03102406 | | | | | | | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 3100 | 1 | 3100 | 0.0001 | 0.03102406 | 96.17458647 | 0.009617459 | 0.0096 | 4100 | 1 | 4100 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 9800 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 6400 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 35000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3800 | 1 | 3800 | 0.0001 | 0.03102406 | 117.8914286 | 0.011789143 | 0.012 | 6600 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.00001 | 0.03102406 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.0001 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.00001 | 0.03102406 |
| | | | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00001 | NA |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00001 | NA |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00001 | NA |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00001 | NA |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | NA |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00001 | NA |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00001 | NA |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00001 | NA |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00001 | NA |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00001 | NA |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | NA |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00001 | NA |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00001 | NA |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00001 | NA |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00001 | NA |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00001 | NA |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | NA |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00001 | NA |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00001 | NA |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00001 | NA |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00001 | NA |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00001 | NA |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | NA |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00001 | NA |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00001 | NA |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00001 | NA |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00001 | NA |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00001 | NA |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | NA |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00001 | NA |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | 2.258393236 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00001 | NA |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | 2.258393236 | | | | | | | 0.00001 | NA |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | 2.258393236 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | 2.258393236 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | 2.258393236 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | 2.258393236 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00001 | NA |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | 2.258393236 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00001 | NA |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | 2.258393236 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | 2.258393236 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00001 | NA |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.0001 | 2.258393236 | 4742.625795 | 0.47426258 | 0.47 | 3900 | 0 | 0 | 0.00001 | NA |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | 2.258393236 | | | | | | | 0.00001 | NA |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | 2.258393236 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | NA |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | 2.258393236 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00001 | NA |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | 2.258393236 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00001 | NA |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00001 | NA |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00001 | NA |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00001 | NA |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | NA |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00001 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00001 | NA |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00001 | NA |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00001 | NA |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00001 | NA |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Frogs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | NA |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00001 | NA |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00001 | NA |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00001 | NA |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00001 | NA |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00001 | NA |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Snakes | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | NA |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00001 | NA |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00001 | NA |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00001 | NA |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00001 | NA |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00001 | NA |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.0001 | NA | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | NA | 0 | 0 | 0 | | | | 0.00001 | NA |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#157 | | | | BZ#157 | | | | BZ#167 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00001 | NA |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.0001 | 1.580875265 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.00001 | NA |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0001 | 1.580875265 | | | | | | | 0.00001 | NA |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.0001 | 1.580875265 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.0001 | 1.580875265 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.00001 | NA |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.0001 | 1.580875265 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.00001 | NA |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.0001 | 1.580875265 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.00001 | NA |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.0001 | 1.580875265 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.00001 | NA |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.0001 | 1.580875265 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.00001 | NA |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.0001 | 1.580875265 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.00001 | NA |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2100 | 1 | 2100 | 0.0001 | 1.580875265 | 3319.838057 | 0.331983806 | 0.33 | 3900 | 0 | 0 | 0.00001 | NA |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.0001 | 1.580875265 | | | | | | | 0.00001 | NA |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.0001 | 1.580875265 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.00001 | NA |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.0001 | 1.580875265 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.00001 | NA |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.0001 | 1.580875265 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.00001 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0 | 0 | 0 | 6100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0 | 0 | 0 | 6700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0 | 0 | 0 | 8600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0 | 0 | 0 | 4500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0 | 0 | 0 | 4900 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0 | 0 | 0 | 7300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0 | 0 | 0 | 7900 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0 | 0 | 0 | 7700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0 | 0 | 0 | 3500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0 | 0 | 0 | 5400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0 | 0 | 0 | 7800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | /Field Duplic | 3/13/2009 | SO | 27 | 0 | 0 | 0 | 5100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0 | 0 | 0 | 9500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | /Field Duplic | 3/12/2009 | SO | 30 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0 | 0 | 0 | 7100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0 | 0 | 0 | 7400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | /Field Duplic | 3/12/2009 | SO | 41 | 0 | 0 | 0 | 6700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0 | 0 | 0 | 8500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0 | 0 | 0 | 9500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0 | 0 | 0 | 9100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0 | 0 | 0 | 4700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0 | 0 | 0 | 6000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0 | 0 | 0 | 4900 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0 | 0 | 0 | 5400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0 | 0 | 0 | 6900 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0 | 0 | 0 | 4700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0 | 0 | 0 | 8600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0 | 0 | 0 | 8700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0 | 0 | 0 | 4500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0 | 0 | 0 | 3700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0 | 0 | 0 | 7900 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0 | 0 | 0 | 5100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0 | 0 | 0 | 18000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0 | 0 | 0 | 4400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0 | 0 | 0 | 4900 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0 | 0 | 0 | 7400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0 | 0 | 0 | 7600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0 | 0 | 0 | 6100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0 | 0 | 0 | 6700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0 | 0 | 0 | 8600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0 | 0 | 0 | 4500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0 | 0 | 0 | 4900 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0 | 0 | 0 | 7300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0 | 0 | 0 | 7900 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0 | 0 | 0 | 7700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0 | 0 | 0 | 3500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0 | 0 | 0 | 5400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0 | 0 | 0 | 7800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0 | 0 | 0 | 5100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0 | 0 | 0 | 9500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0 | 0 | 0 | 7100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0 | 0 | 0 | 7400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 0 | 0 | 0 | 6700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0 | 0 | 0 | 8500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0 | 0 | 0 | 9500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0 | 0 | 0 | 9100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0 | 0 | 0 | 4700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0 | 0 | 0 | 6000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0 | 0 | 0 | 4900 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0 | 0 | 0 | 5400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0 | 0 | 0 | 6900 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0 | 0 | 0 | 4700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0 | 0 | 0 | 8600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0 | 0 | 0 | 8700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0 | 0 | 0 | 4500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0 | 0 | 0 | 3700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0 | 0 | 0 | 7900 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0 | 0 | 0 | 5100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0 | 0 | 0 | 18000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0 | 0 | 0 | 4400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0 | 0 | 0 | 4900 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0 | 0 | 0 | 7400 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0 | 0 | 0 | 7600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0 | 0 | 0 | 6100 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 434.3368421 | 0.004343368 | 0.0043 | 6700 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0 | 0 | 0 | 8600 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 204.758797 | 0.002047588 | 0.002 | 4500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 217.1684211 | 0.002171684 | 0.0022 | 4900 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 372.2887218 | 0.003722887 | 0.0037 | 7300 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 310.2406015 | 0.003102406 | 0.0031 | 7900 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 83.76496241 | 0.00083765 | 0.00084 | 1500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 273.0117293 | 0.002730117 | 0.0027 | 7700 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 127.1986466 | 0.001271986 | 0.0013 | 1600 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 120.9938346 | 0.001209938 | 0.0012 | 3500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0 | 0 | 0 | 5400 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0 | 0 | 0 | 7800 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0 | 0 | 0 | 5100 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0 | 0 | 0 | 9500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0 | 0 | 0 | 7100 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 403.312782 | 0.004033128 | 0.004 | 5800 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | | | | 0.001 | 0.03102406 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 465.3609023 | 0.004653609 | 0.0047 | 7400 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | /Field Duplic | 3/12/2009 | SO | 41 | 0 | 0 | 0 | 6700 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0 | 0 | 0 | 8500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0 | 0 | 0 | 9500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0 | 0 | 0 | 9100 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0 | 0 | 0 | 4700 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0 | 0 | 0 | 6000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0 | 0 | 0 | 4900 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0 | 0 | 0 | 5400 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0 | 0 | 0 | 6900 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0 | 0 | 0 | 4700 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0 | 0 | 0 | 8600 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0 | 0 | 0 | 8700 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0 | 0 | 0 | 4500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0 | 0 | 0 | 3700 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0 | 0 | 0 | 7900 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0 | 0 | 0 | 5100 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0 | 0 | 0 | 18000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0 | 0 | 0 | 4400 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | | | | 0.001 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 96.17458647 | 0.000961746 | 0.00096 | 1500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | | | | 0.001 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | | | | 0.001 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 127.1986466 | 0.001271986 | 0.0013 | 1500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0 | 0 | 0 | 4900 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0 | 0 | 0 | 7400 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0 | 0 | 0 | 7600 | 0 | 0 | 0.001 | 0.03102406 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 5700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 3500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 5700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 3500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 5700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 3500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 5700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 3500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 5700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 3500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 5700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 3500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 5700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 3500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 5700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 3500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 5700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 3500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 5700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 3500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 5700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 3500 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 2000 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.001 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6100 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6700 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8600 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 4500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8800 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 4900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 7700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5400 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7800 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5100 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 9500 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7100 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6700 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8500 | 0 | 0 | 0.05 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 9500 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.05 | NA |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 9100 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4700 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6000 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4900 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5400 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6900 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4700 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8600 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8700 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4500 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3700 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7900 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5100 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 18000 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4400 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1900 | 1 | 1900 | 0.05 | NA |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.05 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.05 | NA |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 315000 | 1 | 315000 | 0.05 | NA |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.05 | NA |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 18000 | 1 | 18000 | 0.05 | NA |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 1 | 1500 | 0.00001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4900 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.05 | NA |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.05 | NA |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.05 | NA |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7600 | 0 | 0 | 0.05 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6100 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6700 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8600 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 12000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 4500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8800 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 4900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 9400 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 14000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 7700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.05 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5400 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7800 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5100 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 9500 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 11000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7100 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 9600 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6700 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8500 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 9500 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.05 | NA |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 9100 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4700 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4900 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8300 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5400 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6900 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4700 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3100 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8600 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8700 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4500 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3700 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3600 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.05 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7900 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5100 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 18000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4400 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5600 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6800 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3400 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1900 | 1 | 1900 | 0.05 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 15000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1400 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.05 | NA |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 315000 | 1 | 315000 | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicat | 6/26/2007 | SO | 89 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2900 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 18000 | 1 | 18000 | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicat | 6/29/2007 | SO | 93 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 1 | 1500 | 0.00001 | NA | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4900 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 17000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6500 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3300 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7400 | 0 | 0 | 0.05 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 16000 | 0 | 0 | 0.05 | NA |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 7600 | 0 | 0 | 0.05 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 17000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 6100 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 6100 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 5600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 6700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 6700 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 8600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 8600 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 7000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 8300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 3300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 12000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 7000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 4500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 8800 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 4900 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 9400 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 7300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 7900 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 1500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 7700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 1600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 1800 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 3400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 17000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 3500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 3200 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 6500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 5400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 5400 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 7800 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 7800 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 17000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 5100 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 5100 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 9500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 9500 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 17000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 3100 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 3400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 11000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 3400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 15000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 7100 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 7100 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 9600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 5800 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | 0.00001 | 0.03102406 | | | | | | | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 7400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 7400 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 8300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.05 | 0.03102406 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | /Field Duplic | 3/12/2009 | SO | 41 | 6700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 6700 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 8500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 8500 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 9500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 9500 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 3300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 71000 | 1 | 71000 | 0.05 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 9100 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 9100 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 7000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 4700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 4700 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 6000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 6000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 4900 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 4900 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 8300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 8300 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 5400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 5400 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 1800 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 6900 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 6900 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 4700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 4700 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 3100 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 8600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 8600 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 8700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 8700 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 4500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 4500 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 5600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 3700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3700 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 3600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 4800 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 4800 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 16000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 7900 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 7900 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 5100 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 5100 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 18000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 18000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 4400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 4400 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 5600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 5600 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 6800 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 1500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 1400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 1500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 1500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 1400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 1700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1700 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 3300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 3400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 1700 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1900 | 1 | 1900 | 0.05 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | 0.00001 | 0.03102406 | | | | | | | 0.05 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 1400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 1500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 1500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | 0.03102406 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 15000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 1400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1400 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 1500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1500 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 1600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 12000 | 1 | 12000 | 0.05 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 1600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 14000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 315000 | 1 | 315000 | 0.05 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicat | 6/26/2007 | SO | 89 | | | | 0.00001 | 0.03102406 | | | | | | | 0.05 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 2900 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 1600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 8600 | 1 | 8600 | 0.05 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 1500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 18000 | 1 | 18000 | 0.05 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicat | 6/29/2007 | SO | 93 | | | | 0.00001 | 0.03102406 | | | | | | | 0.05 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 1500 | 1 | 1500 | 0.00001 | 0.03102406 | 46.53609023 | 0.000465361 | 0.00047 | 1500 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 16000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 4900 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 4900 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 3200 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 3300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 3200 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 17000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 1600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 6500 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 3300 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 7400 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 7400 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 16000 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.05 | 0.03102406 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 7600 | 0 | 0 | 0.00001 | 0.03102406 | 0 | 0 | 0 | 7600 | 0 | 0 | 0.05 | 0.03102406 |
| | | | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.05 | NA |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.05 | NA |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.05 | NA |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.05 | NA |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.05 | NA |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.05 | NA |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | NA |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.05 | NA |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.05 | NA |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.05 | NA |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.05 | NA |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.05 | NA |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.05 | NA |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | NA |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.05 | NA |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.05 | NA |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.05 | NA |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.05 | NA |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.05 | NA |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.05 | NA |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | NA |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.05 | NA |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.05 | NA |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.05 | NA |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.05 | NA |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.05 | NA |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.05 | NA |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | NA |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.05 | NA |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.05 | NA |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.05 | NA |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.05 | NA |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.05 | NA |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.05 | NA |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | NA |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.05 | NA |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.05 | NA |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.05 | NA |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.05 | NA |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.05 | NA |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.05 | NA |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | NA |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.05 | NA |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.05 | NA |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.05 | NA |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.05 | NA |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.05 | NA |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.05 | NA |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.05 | NA |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.05 | NA |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.05 | NA |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.05 | NA |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.05 | NA |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Frogs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.05 | NA |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | NA |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.05 | NA |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.05 | NA |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.05 | NA |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.05 | NA |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.05 | NA |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Snakes | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.05 | NA |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | NA |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.05 | NA |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.05 | NA |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.05 | NA |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.05 | NA |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.05 | NA |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | Field Duplicat | 10/1/2009 | SED | 11 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.05 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | NA |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| | | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.05 | NA |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.05 | NA |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.05 | NA |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.05 | NA |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.05 | NA |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.05 | NA |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.05 | NA |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | | | | 0.00001 | NA | 0 | 0 | 0 | | | | 0.05 | NA |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.05 | NA |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.05 | NA |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.00001 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.05 | NA |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0 | 0 | 0 | 34000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0 | 0 | 0 | 24000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0 | 0 | 0 | 22000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0 | 0 | 0 | 24000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0 | 0 | 0 | 4600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0 | 0 | 0 | 23000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0 | 0 | 0 | 3700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0 | 0 | 0 | 6400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0 | 0 | 0 | 34000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0 | 0 | 0 | 6200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0 | 0 | 0 | 22000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0 | 0 | 0 | 31000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0 | 0 | 0 | 18000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0 | 0 | 0 | 9400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0 | 0 | 0 | 9900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0 | 0 | 0 | 9400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0 | 0 | 0 | 6200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0 | 0 | 0 | 9000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0 | 0 | 0 | 7400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0 | 0 | 0 | 7300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0 | 0 | 0 | 9700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0 | 0 | 0 | 32000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0 | 0 | 0 | 37000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0 | 0 | 0 | 8900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0 | 0 | 0 | 2800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0 | 0 | 0 | 29000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0 | 0 | 0 | 2800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Mammals | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0 | 0 | 0 | 27000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0 | 0 | 0 | 5900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0 | 0 | 0 | 9800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0 | 0 | 0 | 6400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0 | 0 | 0 | 35000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Mammals | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Terrestrial Plants | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0 | 0 | 0 | 34000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0 | 0 | 0 | 24000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0 | 0 | 0 | 22000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0 | 0 | 0 | 24000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0 | 0 | 0 | 4600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0 | 0 | 0 | 23000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0 | 0 | 0 | 3700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0 | 0 | 0 | 6400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0 | 0 | 0 | 34000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0 | 0 | 0 | 6200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0 | 0 | 0 | 22000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0 | 0 | 0 | 31000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0 | 0 | 0 | 18000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0 | 0 | 0 | 9400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0 | 0 | 0 | 9900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0 | 0 | 0 | 9400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0 | 0 | 0 | 6200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0 | 0 | 0 | 9000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0 | 0 | 0 | 7400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0 | 0 | 0 | 7300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0 | 0 | 0 | 9700 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0 | 0 | 0 | 32000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0 | 0 | 0 | 37000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0 | 0 | 0 | 8900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0 | 0 | 0 | 2800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7NF-20 | C72250 | Field Duplicat | 2/11/2009 | SO | 79 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0 | 0 | 0 | 29000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0 | 0 | 0 | 2800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 0 | 0 | 0 | 3300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 0 | 0 | 0 | 27000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-12 | C70693 | Field Duplicat | 6/26/2007 | SO | 89 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0 | 0 | 0 | 5900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C8S-19 | C70735 | Field Duplicat | 6/29/2007 | SO | 93 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0 | 0 | 0 | 9800 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0 | 0 | 0 | 6400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0 | 0 | 0 | 35000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Terrestrial Plants | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Terrestrial Plants | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Earthworm | UAA | NA_UAA | C2N-24 | C70821 | Original | 2/18/2009 | SO | 1 | 0 | 0 | 0 | 34000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C2N-31 | C70845 | Original | 2/18/2009 | SO | 2 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C2S-18 | C70902 | Original | 2/19/2009 | SO | 3 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-01 | C70914 | Original | 3/31/2009 | SO | 4 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-09 | C70938 | Original | 3/31/2009 | SO | 5 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-11 | C70944 | Original | 3/31/2009 | SO | 6 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3N-12 | C70947 | Original | 3/31/2009 | SO | 7 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C3N-24 | C70986 | Original | 3/26/2009 | SO | 8 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-07 | C71004 | Original | 3/31/2009 | SO | 9 | 0 | 0 | 0 | 24000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NF-13 | C71016 | Original | 3/31/2009 | SO | 10 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-04 | C72707 | Original | 8/2/2011 | SO | 11 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-11 | C72721 | Original | 8/3/2011 | SO | 12 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-12 | C72724 | Original | 8/3/2011 | SO | 13 | 0 | 0 | 0 | 22000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-18 | C72736 | Original | 8/3/2011 | SO | 14 | 0 | 0 | 0 | 24000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-26 | C72788 | Original | 9/28/2011 | SO | 15 | 0 | 0 | 0 | 4600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3NX-33 | C72820 | Original | 11/15/2011 | SO | 16 | 0 | 0 | 0 | 23000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-01 | C71034 | Original | 3/31/2009 | SO | 17 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-17 | C71082 | Original | 3/30/2009 | SO | 18 | 0 | 0 | 0 | 3700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-19 | C71088 | Original | 3/30/2009 | SO | 19 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3S-26 | C71112 | Original | 3/25/2009 | SO | 20 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C3SX-13 | C72828 | Original | 11/14/2011 | SO | 21 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-12 | C71221 | Original | 3/23/2009 | SO | 22 | 0 | 0 | 0 | 6400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-20 | C71248 | Original | 3/23/2009 | SO | 23 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-27 | C71269 | Original | 3/14/2009 | SO | 24 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-31 | C71281 | Original | 3/13/2009 | SO | 25 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4N-33 | C71287 | Original | 3/13/2009 | SO | 26 | 0 | 0 | 0 | 34000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | C4N-37 | C71300 | g/Field Duplic | 3/13/2009 | SO | 27 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-47 | C71332 | Original | 3/12/2009 | SO | 28 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-48 | C71335 | Original | 3/12/2009 | SO | 29 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4N-53 | C71351 | g/Field Duplic | 3/12/2009 | SO | 30 | 0 | 0 | 0 | 6200 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4NF-13 | C71388 | Original | 3/24/2009 | SO | 31 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-34 | C71432 | Original | 3/12/2009 | SO | 32 | 0 | 0 | 0 | 22000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4NF-41 | C71446 | Original | 3/12/2009 | SO | 33 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-03 | C71460 | Original | 3/16/2009 | SO | 34 | 0 | 0 | 0 | 31000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-21 | C71517 | Original | 3/16/2009 | SO | 35 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-22 | C71520 | Original | 3/26/2009 | SO | 36 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71535 | Original | 3/25/2009 | SO | 37 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-27 | C71536 | ield Duplicat | 3/25/2009 | SO | 38 | | | | | | | 0.1 | 0.03102406 | | | |
| Earthworm | UAA | NA_UAA | C4S-31 | C71550 | Original | 3/26/2009 | SO | 39 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4S-41 | C71580 | Original | 3/11/2009 | SO | 40 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | UAA | RIP_UAA | C4S-49 | C71605 | g/Field Duplic | 3/12/2009 | SO | 41 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | C4SF-24 | C71685 | Original | 3/11/2009 | SO | 42 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C4SF-33 | C71703 | Original | 3/17/2009 | SO | 43 | 0 | 0 | 0 | 19000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-11 | C71738 | Original | 3/4/2009 | SO | 44 | 2202.70827 | 110.1354135 | 110 | 6600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-12 | C71741 | Original | 3/4/2009 | SO | 45 | 0 | 0 | 0 | 18000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5N-13 | C71744 | Original | 3/4/2009 | SO | 46 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-14 | C71747 | Original | 3/5/2009 | SO | 47 | 0 | 0 | 0 | 9400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-15 | C71750 | Original | 3/5/2009 | SO | 48 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-18 | C71759 | Original | 3/5/2009 | SO | 49 | 0 | 0 | 0 | 9900 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5N-25 | C71780 | Original | 2/24/2009 | SO | 50 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-01 | C71893 | Original | 2/24/2009 | SO | 51 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-04 | C71905 | Original | 2/24/2009 | SO | 52 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-09 | C71920 | Original | 2/23/2009 | SO | 53 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-15 | C71938 | Original | 2/23/2009 | SO | 54 | 0 | 0 | 0 | 9400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-25 | C71968 | Original | 3/5/2009 | SO | 55 | 0 | 0 | 0 | 6200 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-32 | C71992 | Original | 2/22/2009 | SO | 56 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-35 | C72001 | Original | 2/22/2009 | SO | 57 | 0 | 0 | 0 | 17000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C5S-36 | C72004 | Original | 2/22/2009 | SO | 58 | 0 | 0 | 0 | 9000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C5S-46 | C72034 | Original | 2/22/2009 | SO | 59 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-05 | C72097 | Original | 3/9/2009 | SO | 60 | 0 | 0 | 0 | 7400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-07 | C72103 | Original | 3/10/2009 | SO | 61 | 0 | 0 | 0 | 7300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-09 | C72109 | Original | 3/10/2009 | SO | 62 | 0 | 0 | 0 | 9700 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | C6N-14 | C72124 | Original | 3/10/2009 | SO | 63 | 0 | 0 | 0 | 32000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-19 | C72139 | Original | 3/10/2009 | SO | 64 | 0 | 0 | 0 | 16000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6N-20 | C72142 | Original | 3/10/2009 | SO | 65 | 0 | 0 | 0 | 10000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-04 | C72154 | Original | 2/21/2009 | SO | 66 | 0 | 0 | 0 | 37000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-07 | C72166 | Original | 2/21/2009 | SO | 67 | 0 | 0 | 0 | 8900 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-09 | C72172 | Original | 4/2/2009 | SO | 68 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | RIP_MAA | C6S-21 | C72208 | Original | 2/12/2009 | SO | 69 | 0 | 0 | 0 | 14000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-11 | C70516 | Original | 6/21/2007 | SO | 70 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-20 | C70531 | Original | 6/20/2007 | SO | 71 | 0 | 0 | 0 | 2800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7N-31 | C70548 | Original | 6/20/2007 | SO | 72 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-40 | C70562 | Original | 6/26/2007 | SO | 73 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7N-51 | C70579 | Original | 6/21/2007 | SO | 74 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-03 | C72215 | Original | 2/12/2009 | SO | 75 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-14 | C72237 | Original | 2/17/2009 | SO | 76 | 0 | 0 | 0 | 6500 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-17 | C72243 | Original | 2/17/2009 | SO | 77 | 0 | 0 | 0 | 6800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72249 | Original | 2/11/2009 | SO | 78 | 58.9457143 | 2.947285714 | 2.9 | 3300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7NF-20 | C72250 | ield Duplicat | 2/11/2009 | SO | 79 | | | | | | | 0.1 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C7S-08 | C70596 | Original | 6/27/2007 | SO | 80 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-17 | C70610 | Original | 6/27/2007 | SO | 81 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-28 | C70627 | Original | 6/26/2007 | SO | 82 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Earthworm | LAA | RIP_LAA | C7S-37 | C70641 | Original | 6/27/2007 | SO | 83 | 0 | 0 | 0 | 29000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7S-48 | C70659 | Original | 6/28/2007 | SO | 84 | 0 | 0 | 0 | 2800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C7S-57 | C70673 | Original | 6/28/2007 | SO | 85 | 0 | 0 | 0 | 2900 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-13 | C72279 | Original | 2/12/2009 | SO | 86 | 372.288722 | 18.61443609 | 19 | 3300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C7SF-15 | C72283 | Original | 2/12/2009 | SO | 87 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70692 | Original | 6/26/2007 | SO | 88 | 9772.57895 | 488.6289474 | 490 | 27000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8N-12 | C70693 | ield Duplicat | 6/26/2007 | SO | 89 | | | | | | | 0.1 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C8N-19 | C70703 | Original | 6/29/2007 | SO | 90 | 0 | 0 | 0 | 5900 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-12 | C70724 | Original | 6/29/2007 | SO | 91 | 266.806917 | 13.34034586 | 13 | 3100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70734 | Original | 6/29/2007 | SO | 92 | 558.433083 | 27.92165414 | 28 | 3100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C8S-19 | C70735 | ield Duplicat | 6/29/2007 | SO | 93 | | | | | | | 0.1 | 0.03102406 | | | |
| Earthworm | LAA | RIP_LAA | C9N-01 | C72295 | Original | 2/16/2009 | SO | 94 | 0 | 0 | 0 | 3000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-02 | C72298 | Original | 2/16/2009 | SO | 95 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9N-19 | C72352 | Original | 2/9/2009 | SO | 96 | 0 | 0 | 0 | 9800 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-03 | C72364 | Original | 2/17/2009 | SO | 97 | 0 | 0 | 0 | 6400 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | C9S-12 | C72391 | Original | 2/11/2009 | SO | 98 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | NA_LAA | C9S-13 | C72394 | Original | 2/11/2009 | SO | 99 | 0 | 0 | 0 | 6300 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | LAA | RIP_LAA | ELT-07-55 | C72515 | Original | 9/18/2009 | SO | 100 | 0 | 0 | 0 | 35000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-02-18 | C72524 | Original | 9/16/2009 | SO | 101 | 0 | 0 | 0 | 3100 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-29 | C72535 | Original | 9/17/2009 | SO | 102 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | MAA | NA_MAA | EMT-08-30 | C72536 | Original | 9/17/2009 | SO | 103 | 0 | 0 | 0 | 6600 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | RIP_UAA | EUT-04-08 | C72547 | Original | 9/16/2009 | SO | 104 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-07-01 | C72552 | Original | 9/16/2009 | SO | 105 | 0 | 0 | 0 | 33000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| Earthworm | UAA | NA_UAA | EUT-09-51 | C72556 | Original | 9/18/2009 | SO | 106 | 0 | 0 | 0 | 15000 | 0 | 0 | 0.1 | 0.03102406 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Aquatic Plants | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Aquatic Plants | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Benthic Invertebrates | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Benthic Invertebrates | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Benthic Invertebrates | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Crayfish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Crayfish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Emergent Insects | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Emergent Insects | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Frogs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Snakes | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#77 | | | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Bird TEF | BAF (dw/dw) | Modeled Conc | Bird TEC | Bird TEC (2 sig figs) |
| Molluscs | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Molluscs | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0 | 0 | 0 | 3200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0 | 0 | 0 | 11000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0 | 0 | 0 | 3400 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0 | 0 | 0 | 9600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0 | 0 | 0 | 13000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0 | 0 | 0 | 7000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0 | 0 | 0 | 3900 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | ield Duplicat | 10/1/2009 | SED | 11 | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0 | 0 | 0 | 12000 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0 | 0 | 0 | 3600 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0 | 0 | 0 | 4200 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |

**Table F2-5. Modeled Tissue Avian TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**
BAF: bioaccumulation factor
DL-PCB: dioxin-like polychlorinated biphenyls
dw: dry weight
LAA: lower assessment area
MAA: middle assessment area
NA: not applicable
mg/kg dw: milligrams per kilogram dry weight
ND: nondetect
ng/kg dw: nanograms per kilogram dry weight
PCDD: polychlorinated dibenzo-p-dioxin
PCDF: polychlorinated dibenzofuran
SED: sediment
SO: soil
TEC: threshold effect concentration
TEF: toxic equivalency factor
UAA: upper assessment area

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Fish PCDD/PCDF TEQ | Fish PCDD/PCDF TEQ (2 sig figs) | Fish DL-PCB TEQ | Fish DL-PCB TEQ (2 sig figs) | Fish Total TEQ | Fish Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.00 | 0 | | | 0.00 | 0 | 0.097 | 0 | 0 | 1 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 120.18 | 120 | | | 120.18 | 120 | 1.1 | 0 | 0 | 1 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 1.50 | 2 | | | 1.50 | 2 | 0.17 | 0 | 0 | 1 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 71.05 | 71 | 12.83 | 13.00 | 83.88 | 84 | 0.247 | 0 | 0 | 1 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 12.01 | 12 | 3.91 | 3.90 | 15.92 | 16 | 0.104 | 0 | 0 | 1 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.20 | 1 | 3.48 | 3.50 | 4.69 | 5 | 0.103 | 0 | 0 | 1 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 18.81 | 19 | 12.44 | 12.00 | 31.25 | 31 | 0.147 | 1 | 0.147 | 1 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 74.07 | 74 | 13.49 | 13.00 | 87.56 | 88 | 0.5 | 1 | 0.5 | 1 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 31.93 | 32 | 9.94 | 9.90 | 41.86 | 42 | 0.2 | 0 | 0 | 1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 28.22 | 28 | 7.17 | 7.20 | 35.39 | 35 | 0.103 | 0 | 0 | 1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 1.22 | 1.20 | 1.22 | 1.20 | | | | 1 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.21 | 0.21 | 0.21 | 0.21 | | | | 1 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 3.17 | 3.20 | 3.17 | 3.20 | | | | 1 |
| | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.00 | 0 | | | 0.00 | 0 | 0.097 | 0 | 0 | 1 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 34.47 | 34 | | | 34.47 | 34 | 1.1 | 0 | 0 | 1 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.37 | 0 | | | 0.37 | 0 | 0.17 | 0 | 0 | 1 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 18.56 | 19 | 10.66 | 11.00 | 29.22 | 29 | 0.247 | 0 | 0 | 1 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.20 | 3 | 3.25 | 3.20 | 6.44 | 6 | 0.104 | 0 | 0 | 1 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.20 | 1 | 2.90 | 2.90 | 4.10 | 4 | 0.103 | 0 | 0 | 1 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 36.97 | 37 | 10.31 | 10.00 | 47.28 | 47 | 0.147 | 1 | 0.147 | 1 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 129.88 | 130 | 11.21 | 11.00 | 141.09 | 140 | 0.5 | 1 | 0.5 | 1 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 7.05 | 7 | 8.25 | 8.30 | 15.31 | 15 | 0.2 | 0 | 0 | 1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 5.95 | 6 | 5.98 | 6.00 | 11.93 | 12 | 0.103 | 0 | 0 | 1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 1.01 | 1.00 | 1.01 | 1.00 | | | | 1 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.17 | 0.17 | 0.17 | 0.17 | | | | 1 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 2.64 | 2.60 | 2.64 | 2.60 | | | | 1 |
| | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | | | | | | | 0.097 | 0 | 0 | 1 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 40.00 | 40 | | | 40.00 | 40 | 1.1 | 0 | 0 | 1 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.40 | 0 | | | 0.40 | 0 | 0.17 | 0 | 0 | 1 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 21.20 | 21 | 18.30 | 18.00 | 39.50 | 40 | 0.247 | 0 | 0 | 1 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.89 | 4 | 5.55 | 5.50 | 9.44 | 9 | 0.104 | 0 | 0 | 1 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.37 | 1 | 4.99 | 5.00 | 6.36 | 6 | 0.103 | 0 | 0 | 1 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 6.12 | 6 | 17.64 | 18.00 | 23.76 | 24 | 0.147 | 1 | 0.147 | 1 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 23.20 | 23 | 19.27 | 19.00 | 42.47 | 42 | 0.5 | 1 | 0.5 | 1 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 8.42 | 8 | 14.15 | 14.00 | 22.57 | 23 | 0.2 | 0 | 0 | 1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 6.94 | 7 | 10.22 | 10.00 | 17.16 | 17 | 0.103 | 0 | 0 | 1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 1.72 | 1.70 | 1.72 | 1.70 | | | | 1 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Modeled Tissue TEQ | | | | | | 2,3,7,8-TCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Fish PCDD/PCDF TEQ | Fish PCDD/PCDF TEQ (2 sig figs) | Fish DL-PCB TEQ | Fish DL-PCB TEQ (2 sig figs) | Fish Total TEQ | Fish Total TEQ (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.29 | 0.29 | 0.29 | 0.29 | | | | 1 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 4.53 | 4.50 | 4.53 | 4.50 | | | | 1 |
| | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.00 | 0 | | | 0.00 | 0 | 0.097 | 0 | 0 | 1 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 117.48 | 120 | | | 117.48 | 120 | 1.1 | 0 | 0 | 1 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 1.49 | 2 | | | 1.49 | 2 | 0.17 | 0 | 0 | 1 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 71.56 | 72 | 11.16 | 11.00 | 82.72 | 83 | 0.247 | 0 | 0 | 1 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 11.70 | 12 | 3.40 | 3.40 | 15.09 | 15 | 0.104 | 0 | 0 | 1 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.28 | 1 | 3.03 | 3.00 | 4.31 | 4 | 0.103 | 0 | 0 | 1 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 40.37 | 40 | 10.80 | 11.00 | 51.17 | 51 | 0.147 | 1 | 0.147 | 1 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 148.88 | 150 | 11.74 | 12.00 | 160.62 | 160 | 0.5 | 1 | 0.5 | 1 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 31.56 | 32 | 8.64 | 8.60 | 40.20 | 40 | 0.2 | 0 | 0 | 1 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 28.25 | 28 | 6.25 | 6.30 | 34.50 | 35 | 0.103 | 0 | 0 | 1 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | | | | | | | 1 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | 1.06 | 1.10 | 1.06 | 1.10 | | | | 1 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | 0.18 | 0.18 | 0.18 | 0.18 | | | | 1 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | 2.76 | 2.80 | 2.76 | 2.80 | | | | 1 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 215.4770201 | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 215.4770201 | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 215.4770201 | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 215.4770201 | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 215.4770201 | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 215.4770201 | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 215.4770201 | 31.67512195 | 31.67512195 | 32 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 215.4770201 | 107.73851 | 107.73851 | 110 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 215.4770201 | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 215.4770201 | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 215.4770201 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 215.4770201 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 215.4770201 | | | | | | | 1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 215.4770201 | | | | | | | 1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,7,8-TCDD | | | | 1,2,3,7,8-PeCDD | | | | 1,2,3,7,8-PeCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 150.8339141 | 0 | 0 | 0 | 0.13 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 150.8339141 | 0 | 0 | 0 | 0.54 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 150.8339141 | 0 | 0 | 0 | 0.23 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 150.8339141 | 0 | 0 | 0 | 1.08 | 1 | 1.08 | 1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 150.8339141 | 0 | 0 | 0 | 0.124 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 150.8339141 | 0 | 0 | 0 | 0.161 | 0 | 0 | 1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 150.8339141 | 22.17258537 | 22.17258537 | 22 | 0.209 | 1 | 0.209 | 1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 150.8339141 | 75.41695703 | 75.41695703 | 75 | 1.21 | 1 | 1.21 | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 150.8339141 | 0 | 0 | 0 | 0.392 | 1 | 0.392 | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 150.8339141 | 0 | 0 | 0 | 0.482 | 1 | 0.482 | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 150.8339141 | | | | | | | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 150.8339141 | | | | | | | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 150.8339141 | | | | | | | 1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 150.8339141 | | | | | | | 1 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.5 | NA | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.01 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.5 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.5 | NA | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.01 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.5 | NA | 0 | 0 | 0 | 3.36 | 1 | 3.36 | 0.01 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.5 | NA | 0 | 0 | 0 | 0.329 | 0 | 0 | 0.01 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.5 | NA | 0 | 0 | 0 | 0.247 | 0 | 0 | 0.01 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.5 | NA | 0 | 0 | 0 | 0.573 | 0 | 0 | 0.01 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.5 | NA | 0 | 0 | 0 | 3.7 | 1 | 3.7 | 0.01 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.5 | NA | 0 | 0 | 0 | 1.05 | 0 | 0 | 0.01 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.5 | NA | 0 | 0 | 0 | 1.01 | 0 | 0 | 0.01 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.5 | NA | 0 | 0 | 0 | | | | 0.01 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.5 | NA | 0 | 0 | 0 | | | | 0.01 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.5 | NA | 0 | 0 | 0 | | | | 0.01 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.5 | NA | 0 | 0 | 0 | | | | 0.01 |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.5 | 2.923976608 | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.01 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.5 | 2.923976608 | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.5 | 2.923976608 | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.01 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.5 | 2.923976608 | 4.707602339 | 2.35380117 | 2.4 | 3.36 | 1 | 3.36 | 0.01 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.5 | 2.923976608 | 0.409356725 | 0.204678363 | 0.2 | 0.329 | 0 | 0 | 0.01 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.5 | 2.923976608 | 0.371345029 | 0.185672515 | 0.19 | 0.247 | 0 | 0 | 0.01 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.5 | 2.923976608 | 0.707602339 | 0.35380117 | 0.35 | 0.573 | 0 | 0 | 0.01 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.5 | 2.923976608 | 4.766081871 | 2.383040936 | 2.4 | 3.7 | 1 | 3.7 | 0.01 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.5 | 2.923976608 | 1.134502924 | 0.567251462 | 0.57 | 1.05 | 0 | 0 | 0.01 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.5 | 2.923976608 | 1.611111111 | 0.805555556 | 0.81 | 1.01 | 0 | 0 | 0.01 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.5 | 2.923976608 | | | | | | | 0.01 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.5 | 2.923976608 | | | | | | | 0.01 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.5 | 2.923976608 | | | | | | | 0.01 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.5 | 2.923976608 | | | | | | | 0.01 |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.5 | 2.677741276 | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.01 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.5 | 2.677741276 | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.5 | 2.677741276 | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.01 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.5 | 2.677741276 | 4.311163454 | 2.155581727 | 2.2 | 3.36 | 1 | 3.36 | 0.01 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.5 | 2.677741276 | 0.374883779 | 0.187441889 | 0.19 | 0.329 | 0 | 0 | 0.01 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.5 | 2.677741276 | 0.340073142 | 0.170036571 | 0.17 | 0.247 | 0 | 0 | 0.01 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.5 | 2.677741276 | 0.648013389 | 0.324006694 | 0.32 | 0.573 | 0 | 0 | 0.01 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.5 | 2.677741276 | 4.364718279 | 2.18235914 | 2.2 | 3.7 | 1 | 3.7 | 0.01 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.5 | 2.677741276 | 1.038963615 | 0.519481807 | 0.52 | 1.05 | 0 | 0 | 0.01 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.5 | 2.677741276 | 1.475435443 | 0.737717721 | 0.74 | 1.01 | 0 | 0 | 0.01 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.5 | 2.677741276 | | | | | | | 0.01 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.5 | 2.677741276 | | | | | | | 0.01 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,4,7,8-HxCDD | | | | 1,2,3,6,7,8-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.5 | 2.677741276 | | | | | | | 0.01 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.5 | 2.677741276 | | | | | | | 0.01 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.14 | 0 | 0 | 0.5 | 2.923976608 | 0 | 0 | 0 | 0.13 | 1 | 0.13 | 0.01 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.92 | 0 | 0 | 0.5 | 2.923976608 | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.23 | 0 | 0 | 0.5 | 2.923976608 | 0 | 0 | 0 | 0.67 | 1 | 0.67 | 0.01 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 1.61 | 1 | 1.61 | 0.5 | 2.923976608 | 4.707602339 | 2.35380117 | 2.4 | 3.36 | 1 | 3.36 | 0.01 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.14 | 1 | 0.14 | 0.5 | 2.923976608 | 0.409356725 | 0.204678363 | 0.2 | 0.329 | 0 | 0 | 0.01 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.127 | 1 | 0.127 | 0.5 | 2.923976608 | 0.371345029 | 0.185672515 | 0.19 | 0.247 | 0 | 0 | 0.01 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.242 | 1 | 0.242 | 0.5 | 2.923976608 | 0.707602339 | 0.35380117 | 0.35 | 0.573 | 0 | 0 | 0.01 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 1.63 | 1 | 1.63 | 0.5 | 2.923976608 | 4.766081871 | 2.383040936 | 2.4 | 3.7 | 1 | 3.7 | 0.01 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.388 | 1 | 0.388 | 0.5 | 2.923976608 | 1.134502924 | 0.567251462 | 0.57 | 1.05 | 0 | 0 | 0.01 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.551 | 1 | 0.551 | 0.5 | 2.923976608 | 1.611111111 | 0.805555556 | 0.81 | 1.01 | 0 | 0 | 0.01 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.5 | 2.923976608 | | | | | | | 0.01 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.5 | 2.923976608 | | | | | | | 0.01 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.5 | 2.923976608 | | | | | | | 0.01 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.5 | 2.923976608 | | | | | | | 0.01 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.01 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.01 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.01 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.01 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.01 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.01 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.01 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.01 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.01 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.01 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.01 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.01 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.01 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.01 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.01 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.01 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.01 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.01 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | | 1,2,3,7,8,9-HxCDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 2.64 | 1 | 2.64 | 0.01 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.01 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 5.25 | 1 | 5.25 | 0.01 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.36 | 1 | 0.36 | 0.01 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.33 | 1 | 0.33 | 0.01 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.521 | 1 | 0.521 | 0.01 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 3.97 | 1 | 3.97 | 0.01 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.02 | 1 | 1.02 | 0.01 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.22 | 1 | 1.22 | 0.01 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.01 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.001 | NA | 0 | 0 | 0 | 94.4 | 1 | 94.4 | 0.0001 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.001 | NA | 0 | 0 | 0 | 995 | 1 | 995 | 0.0001 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.001 | NA | 0 | 0 | 0 | 487 | 1 | 487 | 0.0001 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.001 | NA | 0 | 0 | 0 | 2100 | 1 | 2100 | 0.0001 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.001 | NA | 0 | 0 | 0 | 170 | 1 | 170 | 0.0001 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.001 | NA | 0 | 0 | 0 | 45.3 | 1 | 45.3 | 0.0001 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.001 | NA | 0 | 0 | 0 | 279 | 1 | 279 | 0.0001 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.001 | NA | 0 | 0 | 0 | 2030 | 1 | 2030 | 0.0001 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.001 | NA | 0 | 0 | 0 | 371 | 1 | 371 | 0.0001 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.001 | NA | 0 | 0 | 0 | 307 | 1 | 307 | 0.0001 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.001 | NA | 0 | 0 | 0 | 94.4 | 1 | 94.4 | 0.0001 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.001 | NA | 0 | 0 | 0 | 995 | 1 | 995 | 0.0001 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.001 | NA | 0 | 0 | 0 | 487 | 1 | 487 | 0.0001 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.001 | NA | 0 | 0 | 0 | 2100 | 1 | 2100 | 0.0001 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.001 | NA | 0 | 0 | 0 | 170 | 1 | 170 | 0.0001 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.001 | NA | 0 | 0 | 0 | 45.3 | 1 | 45.3 | 0.0001 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.001 | NA | 0 | 0 | 0 | 279 | 1 | 279 | 0.0001 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.001 | NA | 0 | 0 | 0 | 2030 | 1 | 2030 | 0.0001 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.001 | NA | 0 | 0 | 0 | 371 | 1 | 371 | 0.0001 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.001 | NA | 0 | 0 | 0 | 307 | 1 | 307 | 0.0001 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.001 | NA | 0 | 0 | 0 | 94.4 | 1 | 94.4 | 0.0001 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.001 | NA | 0 | 0 | 0 | 995 | 1 | 995 | 0.0001 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.001 | NA | 0 | 0 | 0 | 487 | 1 | 487 | 0.0001 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.001 | NA | 0 | 0 | 0 | 2100 | 1 | 2100 | 0.0001 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.001 | NA | 0 | 0 | 0 | 170 | 1 | 170 | 0.0001 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.001 | NA | 0 | 0 | 0 | 45.3 | 1 | 45.3 | 0.0001 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.001 | NA | 0 | 0 | 0 | 279 | 1 | 279 | 0.0001 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.001 | NA | 0 | 0 | 0 | 2030 | 1 | 2030 | 0.0001 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.001 | NA | 0 | 0 | 0 | 371 | 1 | 371 | 0.0001 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.001 | NA | 0 | 0 | 0 | 307 | 1 | 307 | 0.0001 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDD | | | | 1,2,3,4,6,7,8-HpCDD | | | | Octa CDD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 2.47 | 1 | 2.47 | 0.001 | NA | 0 | 0 | 0 | 94.4 | 1 | 94.4 | 0.0001 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 53.6 | 1 | 53.6 | 0.001 | NA | 0 | 0 | 0 | 995 | 1 | 995 | 0.0001 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 14.4 | 1 | 14.4 | 0.001 | NA | 0 | 0 | 0 | 487 | 1 | 487 | 0.0001 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 118 | 1 | 118 | 0.001 | NA | 0 | 0 | 0 | 2100 | 1 | 2100 | 0.0001 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 9.05 | 1 | 9.05 | 0.001 | NA | 0 | 0 | 0 | 170 | 1 | 170 | 0.0001 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 2.76 | 1 | 2.76 | 0.001 | NA | 0 | 0 | 0 | 45.3 | 1 | 45.3 | 0.0001 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 12.9 | 1 | 12.9 | 0.001 | NA | 0 | 0 | 0 | 279 | 1 | 279 | 0.0001 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 94.1 | 1 | 94.1 | 0.001 | NA | 0 | 0 | 0 | 2030 | 1 | 2030 | 0.0001 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 23.4 | 1 | 23.4 | 0.001 | NA | 0 | 0 | 0 | 371 | 1 | 371 | 0.0001 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 20.1 | 1 | 20.1 | 0.001 | NA | 0 | 0 | 0 | 307 | 1 | 307 | 0.0001 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.001 | NA | 0 | 0 | 0 | | | | 0.0001 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.03151318 | 2.974844187 | 0.000297484 | 0.0003 | 0.15 | 0 | 0 | 0.05 | 12.59337653 | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.03151318 | 31.35561405 | 0.003135561 | 0.0031 | 64.2 | 1 | 64.2 | 0.05 | 12.59337653 | 808.4947731 | 40.42473866 | 40 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.03151318 | 15.34691864 | 0.001534692 | 0.0015 | 0.63 | 1 | 0.63 | 0.05 | 12.59337653 | 7.933827213 | 0.396691361 | 0.4 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.03151318 | 66.17767789 | 0.006617768 | 0.0066 | 30.8 | 1 | 30.8 | 0.05 | 12.59337653 | 387.8759971 | 19.39379985 | 19 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.03151318 | 5.357240591 | 0.000535724 | 0.00054 | 5.92 | 1 | 5.92 | 0.05 | 12.59337653 | 74.55278905 | 3.727639452 | 3.7 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.03151318 | 1.427547052 | 0.000142755 | 0.00014 | 1.91 | 1 | 1.91 | 0.05 | 12.59337653 | 24.05334917 | 1.202667458 | 1.2 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.03151318 | 8.792177206 | 0.000879218 | 0.00088 | 9.18 | 1 | 9.18 | 0.05 | 12.59337653 | 115.6071965 | 5.780359827 | 5.8 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.03151318 | 63.9717553 | 0.006397176 | 0.0064 | 33.3 | 1 | 33.3 | 0.05 | 12.59337653 | 419.3594384 | 20.96797192 | 21 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.03151318 | 11.69138976 | 0.001169139 | 0.0012 | 12.6 | 1 | 12.6 | 0.05 | 12.59337653 | 158.6765443 | 7.933827213 | 7.9 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.03151318 | 9.674546244 | 0.000967455 | 0.00097 | 9.82 | 1 | 9.82 | 0.05 | 12.59337653 | 123.6669575 | 6.183347876 | 6.2 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.03151318 | | | | | | | 0.05 | 12.59337653 | | | |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.03151318 | | | | | | | 0.05 | 12.59337653 | | | |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.03151318 | | | | | | | 0.05 | 12.59337653 | | | |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.03151318 | | | | | | | 0.05 | 12.59337653 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.090869309 | 8.578062741 | 0.000857806 | 0.00086 | 0.15 | 0 | 0 | 0.05 | 9.476238553 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.090869309 | 90.41496215 | 0.009041496 | 0.009 | 64.2 | 1 | 64.2 | 0.05 | 9.476238553 | 608.3745151 | 30.41872576 | 30 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.090869309 | 44.25335333 | 0.004425335 | 0.0044 | 0.63 | 1 | 0.63 | 0.05 | 9.476238553 | 5.970030289 | 0.298501514 | 0.3 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.090869309 | 190.8255483 | 0.019082555 | 0.019 | 30.8 | 1 | 30.8 | 0.05 | 9.476238553 | 291.8681474 | 14.59340737 | 15 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.090869309 | 15.44778248 | 0.001544778 | 0.0015 | 5.92 | 1 | 5.92 | 0.05 | 9.476238553 | 56.09933224 | 2.804966612 | 2.8 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.090869309 | 4.116379684 | 0.000411638 | 0.00041 | 1.91 | 1 | 1.91 | 0.05 | 9.476238553 | 18.09961564 | 0.904980782 | 0.9 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.090869309 | 25.35253713 | 0.002535254 | 0.0025 | 9.18 | 1 | 9.18 | 0.05 | 9.476238553 | 86.99186992 | 4.349593496 | 4.3 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.090869309 | 184.4646967 | 0.01844647 | 0.018 | 33.3 | 1 | 33.3 | 0.05 | 9.476238553 | 315.5587438 | 15.77793719 | 16 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.090869309 | 33.71251353 | 0.003371251 | 0.0034 | 12.6 | 1 | 12.6 | 0.05 | 9.476238553 | 119.4006058 | 5.970030289 | 6 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.090869309 | 27.89687777 | 0.002789688 | 0.0028 | 9.82 | 1 | 9.82 | 0.05 | 9.476238553 | 93.05666259 | 4.65283313 | 4.7 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.090869309 | | | | | | | 0.05 | 9.476238553 | | | |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.090869309 | | | | | | | 0.05 | 9.476238553 | | | |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.090869309 | | | | | | | 0.05 | 9.476238553 | | | |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.090869309 | | | | | | | 0.05 | 9.476238553 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.05 | 12.56371677 | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 64.2 | 1 | 64.2 | 0.05 | 12.56371677 | 806.5906167 | 40.32953083 | 40 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.63 | 1 | 0.63 | 0.05 | 12.56371677 | 7.915141566 | 0.395757078 | 0.4 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 30.8 | 1 | 30.8 | 0.05 | 12.56371677 | 386.9624765 | 19.34812383 | 19 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.92 | 1 | 5.92 | 0.05 | 12.56371677 | 74.37720328 | 3.718860164 | 3.7 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.91 | 1 | 1.91 | 0.05 | 12.56371677 | 23.99669903 | 1.199834952 | 1.2 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 9.18 | 1 | 9.18 | 0.05 | 12.56371677 | 115.33492 | 5.766745998 | 5.8 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 33.3 | 1 | 33.3 | 0.05 | 12.56371677 | 418.3717685 | 20.91858842 | 21 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 12.6 | 1 | 12.6 | 0.05 | 12.56371677 | 158.3028313 | 7.915141566 | 7.9 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 9.82 | 1 | 9.82 | 0.05 | 12.56371677 | 123.3756987 | 6.168784934 | 6.2 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.05 | 12.56371677 | | | |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.05 | 12.56371677 | | | |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | Octa CDD | | | | 2,3,7,8-TCDF | | | | 2,3,7,8-TCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.05 | 12.56371677 | | | |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.05 | 12.56371677 | | | |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.081658966 | 7.708606425 | 0.000770861 | 0.00077 | 0.15 | 0 | 0 | 0.05 | 10.24849883 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 0.081658966 | 81.25067154 | 0.008125067 | 0.0081 | 64.2 | 1 | 64.2 | 0.05 | 10.24849883 | 657.9536248 | 32.89768124 | 33 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.081658966 | 39.76791662 | 0.003976792 | 0.004 | 0.63 | 1 | 0.63 | 0.05 | 10.24849883 | 6.456554262 | 0.322827713 | 0.32 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 0.081658966 | 171.4838294 | 0.017148383 | 0.017 | 30.8 | 1 | 30.8 | 0.05 | 10.24849883 | 315.6537639 | 15.78268819 | 16 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.081658966 | 13.88202428 | 0.001388202 | 0.0014 | 5.92 | 1 | 5.92 | 0.05 | 10.24849883 | 60.67111306 | 3.033555653 | 3 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.081658966 | 3.699151177 | 0.000369915 | 0.00037 | 1.91 | 1 | 1.91 | 0.05 | 10.24849883 | 19.57463276 | 0.978731638 | 0.98 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 0.081658966 | 22.78285162 | 0.002278285 | 0.0023 | 9.18 | 1 | 9.18 | 0.05 | 10.24849883 | 94.08121924 | 4.704060962 | 4.7 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 0.081658966 | 165.7677017 | 0.01657677 | 0.017 | 33.3 | 1 | 33.3 | 0.05 | 10.24849883 | 341.275011 | 17.06375055 | 17 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 0.081658966 | 30.29547652 | 0.003029548 | 0.003 | 12.6 | 1 | 12.6 | 0.05 | 10.24849883 | 129.1310852 | 6.456554262 | 6.5 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 0.081658966 | 25.06930268 | 0.00250693 | 0.0025 | 9.82 | 1 | 9.82 | 0.05 | 10.24849883 | 100.6402585 | 5.032012925 | 5 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 0.081658966 | | | | | | | 0.05 | 10.24849883 | | | |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 0.081658966 | | | | | | | 0.05 | 10.24849883 | | | |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 0.081658966 | | | | | | | 0.05 | 10.24849883 | | | |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 0.081658966 | | | | | | | 0.05 | 10.24849883 | | | |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.5 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.05 | NA | 0 | 0 | 0 | 19.6 | 1 | 19.6 | 0.5 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.05 | NA | 0 | 0 | 0 | 0.28 | 1 | 0.28 | 0.5 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.05 | NA | 0 | 0 | 0 | 12.8 | 1 | 12.8 | 0.5 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.05 | NA | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.5 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.05 | NA | 0 | 0 | 0 | 0.877 | 0 | 0 | 0.5 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.05 | NA | 0 | 0 | 0 | 3.09 | 1 | 3.09 | 0.5 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.05 | NA | 0 | 0 | 0 | 13 | 1 | 13 | 0.5 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.05 | NA | 0 | 0 | 0 | 5.8 | 1 | 5.8 | 0.5 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.05 | NA | 0 | 0 | 0 | 5.315 | 1 | 5.315 | 0.5 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.5 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.5 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.5 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.5 |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.05 | 4.349554586 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.5 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.05 | 4.349554586 | 85.68622535 | 4.284311267 | 4.3 | 19.6 | 1 | 19.6 | 0.5 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.05 | 4.349554586 | 1.391857468 | 0.069592873 | 0.07 | 0.28 | 1 | 0.28 | 0.5 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.05 | 4.349554586 | 21.74777293 | 1.087388647 | 1.1 | 12.8 | 1 | 12.8 | 0.5 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.05 | 4.349554586 | 3.801510708 | 0.190075535 | 0.19 | 2.04 | 1 | 2.04 | 0.5 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.05 | 4.349554586 | 2.122582638 | 0.106129132 | 0.11 | 0.877 | 0 | 0 | 0.5 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.05 | 4.349554586 | 6.176367512 | 0.308818376 | 0.31 | 3.09 | 1 | 3.09 | 0.5 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.05 | 4.349554586 | 28.3590959 | 1.417954795 | 1.4 | 13 | 1 | 13 | 0.5 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.05 | 4.349554586 | 9.221055723 | 0.461052786 | 0.46 | 5.8 | 1 | 5.8 | 0.5 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.05 | 4.349554586 | 8.394640351 | 0.419732018 | 0.42 | 5.315 | 1 | 5.315 | 0.5 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.05 | 4.349554586 | | | | | | | 0.5 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.05 | 4.349554586 | | | | | | | 0.5 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.05 | 4.349554586 | | | | | | | 0.5 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.05 | 4.349554586 | | | | | | | 0.5 |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.05 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.5 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.05 | NA | 0 | 0 | 0 | 19.6 | 1 | 19.6 | 0.5 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.05 | NA | 0 | 0 | 0 | 0.28 | 1 | 0.28 | 0.5 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.05 | NA | 0 | 0 | 0 | 12.8 | 1 | 12.8 | 0.5 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.05 | NA | 0 | 0 | 0 | 2.04 | 1 | 2.04 | 0.5 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.05 | NA | 0 | 0 | 0 | 0.877 | 0 | 0 | 0.5 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.05 | NA | 0 | 0 | 0 | 3.09 | 1 | 3.09 | 0.5 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.05 | NA | 0 | 0 | 0 | 13 | 1 | 13 | 0.5 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.05 | NA | 0 | 0 | 0 | 5.8 | 1 | 5.8 | 0.5 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.05 | NA | 0 | 0 | 0 | 5.315 | 1 | 5.315 | 0.5 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.5 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.5 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8-PeCDF | | | | 1,2,3,7,8-PeCDF | | | | 2,3,4,7,8-PeCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.5 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.05 | NA | 0 | 0 | 0 | | | | 0.5 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.17 | 0 | 0 | 0.05 | 4.349554586 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.5 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 19.7 | 1 | 19.7 | 0.05 | 4.349554586 | 85.68622535 | 4.284311267 | 4.3 | 19.6 | 1 | 19.6 | 0.5 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.32 | 1 | 0.32 | 0.05 | 4.349554586 | 1.391857468 | 0.069592873 | 0.07 | 0.28 | 1 | 0.28 | 0.5 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5 | 1 | 5 | 0.05 | 4.349554586 | 21.74777293 | 1.087388647 | 1.1 | 12.8 | 1 | 12.8 | 0.5 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.874 | 1 | 0.874 | 0.05 | 4.349554586 | 3.801510708 | 0.190075535 | 0.19 | 2.04 | 1 | 2.04 | 0.5 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.488 | 1 | 0.488 | 0.05 | 4.349554586 | 2.122582638 | 0.106129132 | 0.11 | 0.877 | 0 | 0 | 0.5 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.42 | 1 | 1.42 | 0.05 | 4.349554586 | 6.176367512 | 0.308818376 | 0.31 | 3.09 | 1 | 3.09 | 0.5 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.52 | 1 | 6.52 | 0.05 | 4.349554586 | 28.3590959 | 1.417954795 | 1.4 | 13 | 1 | 13 | 0.5 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.12 | 1 | 2.12 | 0.05 | 4.349554586 | 9.221055723 | 0.461052786 | 0.46 | 5.8 | 1 | 5.8 | 0.5 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 1.93 | 1 | 1.93 | 0.05 | 4.349554586 | 8.394640351 | 0.419732018 | 0.42 | 5.315 | 1 | 5.315 | 0.5 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.05 | 4.349554586 | | | | | | | 0.5 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.05 | 4.349554586 | | | | | | | 0.5 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.05 | 4.349554586 | | | | | | | 0.5 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.05 | 4.349554586 | | | | | | | 0.5 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 8.151031584 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 8.151031584 | 159.760219 | 79.88010952 | 80 | 114 | 1 | 114 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 8.151031584 | 2.282288843 | 1.141144422 | 1.1 | 0.65 | 1 | 0.65 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 8.151031584 | 104.3332043 | 52.16660214 | 52 | 16.5 | 1 | 16.5 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 8.151031584 | 16.62810443 | 8.314052216 | 8.3 | 2.08 | 1 | 2.08 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 8.151031584 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 8.151031584 | 25.18668759 | 12.5933438 | 13 | 3.58 | 1 | 3.58 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 8.151031584 | 105.9634106 | 52.9817053 | 53 | 18.4 | 1 | 18.4 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 8.151031584 | 47.27598319 | 23.63799159 | 24 | 10.6 | 1 | 10.6 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 8.151031584 | 43.32273287 | 21.66136643 | 22 | 9.21 | 1 | 9.21 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 114 | 1 | 114 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.65 | 1 | 0.65 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 16.5 | 1 | 16.5 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2.08 | 1 | 2.08 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 3.58 | 1 | 3.58 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 18.4 | 1 | 18.4 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 10.6 | 1 | 10.6 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 9.21 | 1 | 9.21 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 114 | 1 | 114 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.65 | 1 | 0.65 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 16.5 | 1 | 16.5 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 2.08 | 1 | 2.08 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 3.58 | 1 | 3.58 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 18.4 | 1 | 18.4 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 10.6 | 1 | 10.6 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 9.21 | 1 | 9.21 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 2,3,4,7,8-PeCDF | | | | 1,2,3,4,7,8-HxCDF | | | | 1,2,3,4,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 8.151031584 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 8.151031584 | 159.760219 | 79.88010952 | 80 | 114 | 1 | 114 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 8.151031584 | 2.282288843 | 1.141144422 | 1.1 | 0.65 | 1 | 0.65 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 8.151031584 | 104.3332043 | 52.16660214 | 52 | 16.5 | 1 | 16.5 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 8.151031584 | 16.62810443 | 8.314052216 | 8.3 | 2.08 | 1 | 2.08 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 8.151031584 | 0 | 0 | 0 | 1.38 | 1 | 1.38 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 8.151031584 | 25.18668759 | 12.5933438 | 13 | 3.58 | 1 | 3.58 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 8.151031584 | 105.9634106 | 52.9817053 | 53 | 18.4 | 1 | 18.4 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 8.151031584 | 47.27598319 | 23.63799159 | 24 | 10.6 | 1 | 10.6 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 8.151031584 | 43.32273287 | 21.66136643 | 22 | 9.21 | 1 | 9.21 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 8.151031584 | | | | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 | 3.91 | 1 | 3.91 | 0.1 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 0.1 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.114 | 0 | 0 | 0.1 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.191 | 0 | 0 | 0.1 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 | 0.125 | 0 | 0 | 0.1 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 | 0.497 | 0 | 0 | 0.1 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 | 0.273 | 0 | 0 | 0.1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 | 0.408 | 0 | 0 | 0.1 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 | 3.91 | 1 | 3.91 | 0.1 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 0.1 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.114 | 0 | 0 | 0.1 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.191 | 0 | 0 | 0.1 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 | 0.125 | 0 | 0 | 0.1 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 | 0.497 | 0 | 0 | 0.1 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 | 0.273 | 0 | 0 | 0.1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 | 0.408 | 0 | 0 | 0.1 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 | 3.91 | 1 | 3.91 | 0.1 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 0.1 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.114 | 0 | 0 | 0.1 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.191 | 0 | 0 | 0.1 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 | 0.125 | 0 | 0 | 0.1 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 | 0.497 | 0 | 0 | 0.1 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 | 0.273 | 0 | 0 | 0.1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 | 0.408 | 0 | 0 | 0.1 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,6,7,8-HxCDF | | | | 1,2,3,7,8,9-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.11 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.15 | 0 | 0 | 0.1 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 28.2 | 1 | 28.2 | 0.1 | NA | 0 | 0 | 0 | 3.91 | 1 | 3.91 | 0.1 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 0.59 | 1 | 0.59 | 0.1 | NA | 0 | 0 | 0 | 0.26 | 0 | 0 | 0.1 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5.64 | 1 | 5.64 | 0.1 | NA | 0 | 0 | 0 | 0.51 | 0 | 0 | 0.1 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 0.753 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.114 | 0 | 0 | 0.1 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 0.545 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 | 0.191 | 0 | 0 | 0.1 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 1.23 | 1 | 1.23 | 0.1 | NA | 0 | 0 | 0 | 0.125 | 0 | 0 | 0.1 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6.9 | 1 | 6.9 | 0.1 | NA | 0 | 0 | 0 | 0.497 | 0 | 0 | 0.1 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 2.92 | 1 | 2.92 | 0.1 | NA | 0 | 0 | 0 | 0.273 | 0 | 0 | 0.1 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2.835 | 1 | 2.835 | 0.1 | NA | 0 | 0 | 0 | 0.408 | 0 | 0 | 0.1 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.1 | NA | 0 | 0 | 0 | | | | 0.1 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,7,8,9-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | | 2,3,4,6,7,8-HxCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 9.49 | 1 | 9.49 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 4.06 | 1 | 4.06 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 0.551 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 0.332 | 0 | 0 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 0.785 | 1 | 0.785 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 5.7 | 1 | 5.7 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 1.89 | 1 | 1.89 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 1.935 | 1 | 1.935 | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.1 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.55 | 0 | 0 | 0.01 | 0.173358313 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 102 | 1 | 102 | 0.01 | 0.173358313 | 17.68254796 | 0.17682548 | 0.18 | 43.8 | 1 | 43.8 | 0.01 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | 0.173358313 | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | 0.173358313 | 4.559323642 | 0.045593236 | 0.046 | 6.43 | 1 | 6.43 | 0.01 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.43 | 1 | 3.43 | 0.01 | 0.173358313 | 0.594619015 | 0.00594619 | 0.0059 | 0.66 | 1 | 0.66 | 0.01 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.53 | 1 | 1.53 | 0.01 | 0.173358313 | 0.265238219 | 0.002652382 | 0.0027 | 0.686 | 1 | 0.686 | 0.01 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.62 | 1 | 4.62 | 0.01 | 0.173358313 | 0.800915408 | 0.008009154 | 0.008 | 0.978 | 1 | 0.978 | 0.01 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 36.3 | 1 | 36.3 | 0.01 | 0.173358313 | 6.292906775 | 0.062929068 | 0.063 | 5.27 | 1 | 5.27 | 0.01 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.6 | 1 | 13.6 | 0.01 | 0.173358313 | 2.357673062 | 0.023576731 | 0.024 | 3.05 | 1 | 3.05 | 0.01 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.85 | 1 | 11.85 | 0.01 | 0.173358313 | 2.054296013 | 0.02054296 | 0.021 | 3.08 | 1 | 3.08 | 0.01 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | 0.173358313 | | | | | | | 0.01 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 0.173358313 | | | | | | | 0.01 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 0.173358313 | | | | | | | 0.01 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 0.173358313 | | | | | | | 0.01 |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.55 | 0 | 0 | 0.01 | 0.157188862 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 102 | 1 | 102 | 0.01 | 0.157188862 | 16.0332639 | 0.160332639 | 0.16 | 43.8 | 1 | 43.8 | 0.01 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | 0.157188862 | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | 0.157188862 | 4.134067064 | 0.041340671 | 0.041 | 6.43 | 1 | 6.43 | 0.01 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.43 | 1 | 3.43 | 0.01 | 0.157188862 | 0.539157796 | 0.005391578 | 0.0054 | 0.66 | 1 | 0.66 | 0.01 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.53 | 1 | 1.53 | 0.01 | 0.157188862 | 0.240498958 | 0.00240499 | 0.0024 | 0.686 | 1 | 0.686 | 0.01 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.62 | 1 | 4.62 | 0.01 | 0.157188862 | 0.726212541 | 0.007262125 | 0.0073 | 0.978 | 1 | 0.978 | 0.01 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 36.3 | 1 | 36.3 | 0.01 | 0.157188862 | 5.705955681 | 0.057059557 | 0.057 | 5.27 | 1 | 5.27 | 0.01 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.6 | 1 | 13.6 | 0.01 | 0.157188862 | 2.13776852 | 0.021377685 | 0.021 | 3.05 | 1 | 3.05 | 0.01 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.85 | 1 | 11.85 | 0.01 | 0.157188862 | 1.862688012 | 0.01862688 | 0.019 | 3.08 | 1 | 3.08 | 0.01 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | 0.157188862 | | | | | | | 0.01 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 0.157188862 | | | | | | | 0.01 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 0.157188862 | | | | | | | 0.01 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 0.157188862 | | | | | | | 0.01 |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.55 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 102 | 1 | 102 | 0.01 | NA | 0 | 0 | 0 | 43.8 | 1 | 43.8 | 0.01 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | NA | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | NA | 0 | 0 | 0 | 6.43 | 1 | 6.43 | 0.01 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.43 | 1 | 3.43 | 0.01 | NA | 0 | 0 | 0 | 0.66 | 1 | 0.66 | 0.01 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.53 | 1 | 1.53 | 0.01 | NA | 0 | 0 | 0 | 0.686 | 1 | 0.686 | 0.01 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.62 | 1 | 4.62 | 0.01 | NA | 0 | 0 | 0 | 0.978 | 1 | 0.978 | 0.01 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 36.3 | 1 | 36.3 | 0.01 | NA | 0 | 0 | 0 | 5.27 | 1 | 5.27 | 0.01 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.6 | 1 | 13.6 | 0.01 | NA | 0 | 0 | 0 | 3.05 | 1 | 3.05 | 0.01 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.85 | 1 | 11.85 | 0.01 | NA | 0 | 0 | 0 | 3.08 | 1 | 3.08 | 0.01 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,6,7,8-HpCDF | | | | 1,2,3,4,7,8,9-HpCDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | ng/kg dw | | | | | | | | ng/kg dw | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | NA | 0 | 0 | 0 | | | | 0.01 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 0.55 | 0 | 0 | 0.01 | 0.165273588 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0.01 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | 102 | 1 | 102 | 0.01 | 0.165273588 | 16.85790593 | 0.168579059 | 0.17 | 43.8 | 1 | 43.8 | 0.01 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 3.5 | 0 | 0 | 0.01 | 0.165273588 | 0 | 0 | 0 | 0.44 | 1 | 0.44 | 0.01 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 26.3 | 1 | 26.3 | 0.01 | 0.165273588 | 4.346695353 | 0.043466954 | 0.043 | 6.43 | 1 | 6.43 | 0.01 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3.43 | 1 | 3.43 | 0.01 | 0.165273588 | 0.566888405 | 0.005668884 | 0.0057 | 0.66 | 1 | 0.66 | 0.01 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1.53 | 1 | 1.53 | 0.01 | 0.165273588 | 0.252868589 | 0.002528686 | 0.0025 | 0.686 | 1 | 0.686 | 0.01 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4.62 | 1 | 4.62 | 0.01 | 0.165273588 | 0.763563974 | 0.00763564 | 0.0076 | 0.978 | 1 | 0.978 | 0.01 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 36.3 | 1 | 36.3 | 0.01 | 0.165273588 | 5.999431228 | 0.059994312 | 0.06 | 5.27 | 1 | 5.27 | 0.01 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 13.6 | 1 | 13.6 | 0.01 | 0.165273588 | 2.247720791 | 0.022477208 | 0.022 | 3.05 | 1 | 3.05 | 0.01 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 11.85 | 1 | 11.85 | 0.01 | 0.165273588 | 1.958492013 | 0.01958492 | 0.02 | 3.08 | 1 | 3.08 | 0.01 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.01 | 0.165273588 | | | | | | | 0.01 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | | | | 0.01 | 0.165273588 | | | | | | | 0.01 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | | | | 0.01 | 0.165273588 | | | | | | | 0.01 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | | | | 0.01 | 0.165273588 | | | | | | | 0.01 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | 1,2,3,4,7,8,9-HpCDF | | | | Octa CDF | | | | Octa CDF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | | | | | ng/kg dw | | | | | | | |
| | | | | | | | | Count | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | NA | 0 | 0 | 0 | 1.2 | 1 | 1.2 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | NA | 0 | 0 | 0 | 299 | 1 | 299 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | NA | 0 | 0 | 0 | 3.9 | 1 | 3.9 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | NA | 0 | 0 | 0 | 48.5 | 1 | 48.5 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | NA | 0 | 0 | 0 | 5.56 | 1 | 5.56 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | NA | 0 | 0 | 0 | 2.89 | 1 | 2.89 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | NA | 0 | 0 | 0 | 7.71 | 1 | 7.71 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | NA | 0 | 0 | 0 | 61.4 | 1 | 61.4 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | NA | 0 | 0 | 0 | 26.1 | 1 | 26.1 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | NA | 0 | 0 | 0 | 16.15 | 1 | 16.15 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#105 | | | | BZ#105 | | | | BZ#114 | | | | BZ#114 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | 13.000161 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | 13.000161 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | 13.000161 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 44000 | 1 | 44000 | 0.000005 | 13.000161 | 572007.1 | 2.860035 | 2.9 | 5700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 17000 | 1 | 17000 | 0.000005 | 13.000161 | 221002.7 | 1.105014 | 1.1 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 14000 | 1 | 14000 | 0.000005 | 13.000161 | 182002.3 | 0.910011 | 0.91 | 1700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 47000 | 1 | 47000 | 0.000005 | 13.000161 | 611007.6 | 3.055038 | 3.1 | 4800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 46000 | 1 | 46000 | 0.000005 | 13.000161 | 598007.4 | 2.990037 | 3 | 6300 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 36000 | 1 | 36000 | 0.000005 | 13.000161 | 468005.8 | 2.340029 | 2.3 | 3500 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 27000 | 1 | 27000 | 0.000005 | 13.000161 | 351004.3 | 1.755022 | 1.8 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | 13.000161 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.000005 | 13.000161 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.000005 | 13.000161 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 8600 | 1 | 8600 | 0.000005 | 13.000161 | 111801.4 | 0.559007 | 0.56 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | 10.6624017 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | 10.6624017 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | 10.6624017 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 44000 | 1 | 44000 | 0.000005 | 10.6624017 | 469145.7 | 2.345728 | 2.3 | 5700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 17000 | 1 | 17000 | 0.000005 | 10.6624017 | 181260.8 | 0.906304 | 0.91 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 14000 | 1 | 14000 | 0.000005 | 10.6624017 | 149273.6 | 0.746368 | 0.75 | 1700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 47000 | 1 | 47000 | 0.000005 | 10.6624017 | 501132.9 | 2.505664 | 2.5 | 4800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 46000 | 1 | 46000 | 0.000005 | 10.6624017 | 490470.5 | 2.452352 | 2.5 | 6300 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 36000 | 1 | 36000 | 0.000005 | 10.6624017 | 383846.5 | 1.919232 | 1.9 | 3500 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 27000 | 1 | 27000 | 0.000005 | 10.6624017 | 287884.8 | 1.439424 | 1.4 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | 10.6624017 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.000005 | 10.6624017 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.000005 | 10.6624017 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 8600 | 1 | 8600 | 0.000005 | 10.6624017 | 91696.65 | 0.458483 | 0.46 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | 17.5448215 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | 17.5448215 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | 17.5448215 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 44000 | 1 | 44000 | 0.000005 | 17.5448215 | 771972.1 | 3.859861 | 3.9 | 5700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 17000 | 1 | 17000 | 0.000005 | 17.5448215 | 298262 | 1.49131 | 1.5 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 14000 | 1 | 14000 | 0.000005 | 17.5448215 | 245627.5 | 1.228138 | 1.2 | 1700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 47000 | 1 | 47000 | 0.000005 | 17.5448215 | 824606.6 | 4.123033 | 4.1 | 4800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 46000 | 1 | 46000 | 0.000005 | 17.5448215 | 807061.8 | 4.035309 | 4 | 6300 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 36000 | 1 | 36000 | 0.000005 | 17.5448215 | 631613.6 | 3.158068 | 3.2 | 3500 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 27000 | 1 | 27000 | 0.000005 | 17.5448215 | 473710.2 | 2.368551 | 2.4 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | 17.5448215 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.000005 | 17.5448215 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#105 | | | | BZ#105 | | | | BZ#114 | | | | BZ#114 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.000005 | 17.5448215 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 8600 | 1 | 8600 | 0.000005 | 17.5448215 | 150885.5 | 0.754427 | 0.75 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | 10.9928007 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | 10.9928007 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | 10.9928007 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 44000 | 1 | 44000 | 0.000005 | 10.9928007 | 483683.2 | 2.418416 | 2.4 | 5700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 17000 | 1 | 17000 | 0.000005 | 10.9928007 | 186877.6 | 0.934388 | 0.93 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 14000 | 1 | 14000 | 0.000005 | 10.9928007 | 153899.2 | 0.769496 | 0.77 | 1700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 47000 | 1 | 47000 | 0.000005 | 10.9928007 | 516661.6 | 2.583308 | 2.6 | 4800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 46000 | 1 | 46000 | 0.000005 | 10.9928007 | 505668.8 | 2.528344 | 2.5 | 6300 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 36000 | 1 | 36000 | 0.000005 | 10.9928007 | 395740.8 | 1.978704 | 2 | 3500 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 27000 | 1 | 27000 | 0.000005 | 10.9928007 | 296805.6 | 1.484028 | 1.5 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | 10.9928007 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.000005 | 10.9928007 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.000005 | 10.9928007 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 8600 | 1 | 8600 | 0.000005 | 10.9928007 | 94538.09 | 0.47269 | 0.47 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | | | BZ#118 | | | | BZ#123 | | | | | BZ#123 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | | mg/kg dw converted to ng/kg dw | | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | 18.763275 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | 18.763275 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | 18.763275 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 94000 | 1 | 94000 | 0.000005 | 18.763275 | 1763748 | 8.818739 | 8.8 | 5700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 27000 | 1 | 27000 | 0.000005 | 18.763275 | 506608.4 | 2.533042 | 2.5 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 23000 | 1 | 23000 | 0.000005 | 18.763275 | 431555.3 | 2.157777 | 2.2 | 1700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 91000 | 1 | 91000 | 0.000005 | 18.763275 | 1707458 | 8.53729 | 8.5 | 4800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 98000 | 1 | 98000 | 0.000005 | 18.763275 | 1838801 | 9.194005 | 9.2 | 6300 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 72000 | 1 | 72000 | 0.000005 | 18.763275 | 1350956 | 6.754779 | 6.8 | 3500 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 50500 | 1 | 50500 | 0.000005 | 18.763275 | 947545.4 | 4.737727 | 4.7 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | 18.763275 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 13000 | 1 | 13000 | 0.000005 | 18.763275 | 243922.6 | 1.219613 | 1.2 | 5800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 2200 | 1 | 2200 | 0.000005 | 18.763275 | 41279.21 | 0.206396 | 0.21 | 1800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 25000 | 1 | 25000 | 0.000005 | 18.763275 | 469081.9 | 2.345409 | 2.3 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | 15.516951 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | 15.516951 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | 15.516951 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 94000 | 1 | 94000 | 0.000005 | 15.516951 | 1458593 | 7.292967 | 7.3 | 5700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 27000 | 1 | 27000 | 0.000005 | 15.516951 | 418957.7 | 2.094788 | 2.1 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 23000 | 1 | 23000 | 0.000005 | 15.516951 | 356889.9 | 1.784449 | 1.8 | 1700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 91000 | 1 | 91000 | 0.000005 | 15.516951 | 1412043 | 7.060213 | 7.1 | 4800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 98000 | 1 | 98000 | 0.000005 | 15.516951 | 1520661 | 7.603306 | 7.6 | 6300 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 72000 | 1 | 72000 | 0.000005 | 15.516951 | 1117220 | 5.586102 | 5.6 | 3500 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 50500 | 1 | 50500 | 0.000005 | 15.516951 | 783606 | 3.91803 | 3.9 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | 15.516951 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 13000 | 1 | 13000 | 0.000005 | 15.516951 | 201720.4 | 1.008602 | 1 | 5800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 2200 | 1 | 2200 | 0.000005 | 15.516951 | 34137.29 | 0.170686 | 0.17 | 1800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 25000 | 1 | 25000 | 0.000005 | 15.516951 | 387923.8 | 1.939619 | 1.9 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | 26.53473 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | 26.53473 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | 26.53473 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 94000 | 1 | 94000 | 0.000005 | 26.53473 | 2494265 | 12.47132 | 12 | 5700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 27000 | 1 | 27000 | 0.000005 | 26.53473 | 716437.7 | 3.582189 | 3.6 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 23000 | 1 | 23000 | 0.000005 | 26.53473 | 610298.8 | 3.051494 | 3.1 | 1700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 91000 | 1 | 91000 | 0.000005 | 26.53473 | 2414660 | 12.0733 | 12 | 4800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 98000 | 1 | 98000 | 0.000005 | 26.53473 | 2600404 | 13.00202 | 13 | 6300 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 72000 | 1 | 72000 | 0.000005 | 26.53473 | 1910501 | 9.552503 | 9.6 | 3500 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 50500 | 1 | 50500 | 0.000005 | 26.53473 | 1340004 | 6.700019 | 6.7 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | 26.53473 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 13000 | 1 | 13000 | 0.000005 | 26.53473 | 344951.5 | 1.724757 | 1.7 | 5800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#118 | | | | | | | | BZ#123 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 2200 | 1 | 2200 | 0.000005 | 26.53473 | 58376.41 | 0.291882 | 0.29 | 1800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 25000 | 1 | 25000 | 0.000005 | 26.53473 | 663368.3 | 3.316841 | 3.3 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | 16.36909 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | 16.36909 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | 16.36909 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 94000 | 1 | 94000 | 0.000005 | 16.36909 | 1538694 | 7.693472 | 7.7 | 5700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 27000 | 1 | 27000 | 0.000005 | 16.36909 | 441965.4 | 2.209827 | 2.2 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 23000 | 1 | 23000 | 0.000005 | 16.36909 | 376489.1 | 1.882445 | 1.9 | 1700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 91000 | 1 | 91000 | 0.000005 | 16.36909 | 1489587 | 7.447936 | 7.4 | 4800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 98000 | 1 | 98000 | 0.000005 | 16.36909 | 1604171 | 8.020854 | 8 | 6300 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 72000 | 1 | 72000 | 0.000005 | 16.36909 | 1178575 | 5.892873 | 5.9 | 3500 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 50500 | 1 | 50500 | 0.000005 | 16.36909 | 826639.1 | 4.133195 | 4.1 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | 16.36909 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 13000 | 1 | 13000 | 0.000005 | 16.36909 | 212798.2 | 1.063991 | 1.1 | 5800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 2200 | 1 | 2200 | 0.000005 | 16.36909 | 36012 | 0.18006 | 0.18 | 1800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 25000 | 1 | 25000 | 0.000005 | 16.36909 | 409227.3 | 2.046136 | 2 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | | | | | BZ#153 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA | NA | 0 | | |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.005 | NA | 0 | 0 | 0 | | | | NA | NA | 0 | | |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA | NA | 0 | | |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA | 0 | | |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA | NA | 0 | | |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA | NA | 0 | | |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA | 0 | | |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA | 0 | | |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA | 0 | | |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA | NA | 0 | | |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.005 | NA | 0 | 0 | 0 | | | | NA | NA | 0 | | |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.005 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA | 0 | | |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA | NA | 0 | | |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.005 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA | NA | 0 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA | NA | 0 | | |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.005 | NA | 0 | 0 | 0 | | | | NA | NA | 0 | | |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA | NA | 0 | | |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA | 0 | | |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA | NA | 0 | | |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA | NA | 0 | | |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA | 0 | | |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA | 0 | | |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA | 0 | | |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA | NA | 0 | | |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.005 | NA | 0 | 0 | 0 | | | | NA | NA | 0 | | |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.005 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA | 0 | | |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA | NA | 0 | | |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.005 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA | NA | 0 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA | NA | 0 | | |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.005 | NA | 0 | 0 | 0 | | | | NA | NA | 0 | | |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA | NA | 0 | | |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA | 0 | | |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA | NA | 0 | | |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA | NA | 0 | | |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA | 0 | | |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA | 0 | | |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA | 0 | | |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA | NA | 0 | | |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.005 | NA | 0 | 0 | 0 | | | | NA | NA | 0 | | |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.005 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA | 0 | | |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#126 | | | | | | | | BZ#153 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA | NA | 0 | | |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.005 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA | NA | 0 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 3200 | 0 | 0 | NA | NA | 0 | | |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.005 | NA | 0 | 0 | 0 | | | | NA | NA | 0 | | |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 4200 | 0 | 0 | NA | NA | 0 | | |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 130000 | 1 | 130000 | NA | NA | 0 | | |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 22000 | 1 | 22000 | NA | NA | 0 | | |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 23000 | 1 | 23000 | NA | NA | 0 | | |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA | 0 | | |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 140000 | 1 | 140000 | NA | NA | 0 | | |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 88000 | 1 | 88000 | NA | NA | 0 | | |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 66500 | 1 | 66500 | NA | NA | 0 | | |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.005 | NA | 0 | 0 | 0 | | | | NA | NA | 0 | | |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 1 | 12000 | 0.005 | NA | 0 | 0 | 0 | 110000 | 1 | 110000 | NA | NA | 0 | | |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.005 | NA | 0 | 0 | 0 | 4400 | 1 | 4400 | NA | NA | 0 | | |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 6400 | 1 | 6400 | 0.005 | NA | 0 | 0 | 0 | 61000 | 1 | 61000 | NA | NA | 0 | | |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#156 | | | | BZ#156 | | | | BZ#157 | | | | BZ#157 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | 15.360366 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | 15.360366 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | 15.360366 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 15000 | 1 | 15000 | 0.000005 | 15.360366 | 230405.492 | 1.152027 | 1.2 | 5700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3600 | 1 | 3600 | 0.000005 | 15.360366 | 55297.31808 | 0.276487 | 0.28 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 5400 | 1 | 5400 | 0.000005 | 15.360366 | 82945.97711 | 0.41473 | 0.41 | 1700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 11000 | 1 | 11000 | 0.000005 | 15.360366 | 168964.0275 | 0.84482 | 0.84 | 4800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 17000 | 1 | 17000 | 0.000005 | 15.360366 | 261126.2242 | 1.305631 | 1.3 | 6300 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 11000 | 1 | 11000 | 0.000005 | 15.360366 | 168964.0275 | 0.84482 | 0.84 | 3500 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 8800 | 1 | 8800 | 0.000005 | 15.360366 | 135171.222 | 0.675856 | 0.68 | 2100 | 1 | 2100 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | 15.360366 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.000005 | 15.360366 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.000005 | 15.360366 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 3500 | 1 | 3500 | 0.000005 | 15.360366 | 53761.28146 | 0.268806 | 0.27 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | 13.605442 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.000005 | 2.25839324 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | 13.605442 | | | | | | | 0.000005 | 2.25839324 | | | |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | 13.605442 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.000005 | 2.25839324 | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 15000 | 1 | 15000 | 0.000005 | 13.605442 | 204081.6327 | 1.020408 | 1 | 5700 | 0 | 0 | 0.000005 | 2.25839324 | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3600 | 1 | 3600 | 0.000005 | 13.605442 | 48979.59184 | 0.244898 | 0.24 | 2000 | 0 | 0 | 0.000005 | 2.25839324 | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 5400 | 1 | 5400 | 0.000005 | 13.605442 | 73469.38776 | 0.367347 | 0.37 | 1700 | 0 | 0 | 0.000005 | 2.25839324 | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 11000 | 1 | 11000 | 0.000005 | 13.605442 | 149659.8639 | 0.748299 | 0.75 | 4800 | 0 | 0 | 0.000005 | 2.25839324 | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 17000 | 1 | 17000 | 0.000005 | 13.605442 | 231292.517 | 1.156463 | 1.2 | 6300 | 0 | 0 | 0.000005 | 2.25839324 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 11000 | 1 | 11000 | 0.000005 | 13.605442 | 149659.8639 | 0.748299 | 0.75 | 3500 | 0 | 0 | 0.000005 | 2.25839324 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 8800 | 1 | 8800 | 0.000005 | 13.605442 | 119727.8912 | 0.598639 | 0.6 | 2100 | 1 | 2100 | 0.000005 | 2.25839324 | 4742.6258 | 0.023713 | 0.024 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | 13.605442 | | | | | | | 0.000005 | 2.25839324 | | | |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.000005 | 13.605442 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.000005 | 2.25839324 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.000005 | 13.605442 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.000005 | 2.25839324 | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 3500 | 1 | 3500 | 0.000005 | 13.605442 | 47619.04762 | 0.238095 | 0.24 | 2100 | 0 | 0 | 0.000005 | 2.25839324 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | 26.252382 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | 26.252382 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | 26.252382 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 15000 | 1 | 15000 | 0.000005 | 26.252382 | 393785.7374 | 1.968929 | 2 | 5700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3600 | 1 | 3600 | 0.000005 | 26.252382 | 94508.57698 | 0.472543 | 0.47 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 5400 | 1 | 5400 | 0.000005 | 26.252382 | 141762.8655 | 0.708814 | 0.71 | 1700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 11000 | 1 | 11000 | 0.000005 | 26.252382 | 288776.2074 | 1.443881 | 1.4 | 4800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 17000 | 1 | 17000 | 0.000005 | 26.252382 | 446290.5024 | 2.231453 | 2.2 | 6300 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 11000 | 1 | 11000 | 0.000005 | 26.252382 | 288776.2074 | 1.443881 | 1.4 | 3500 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 8800 | 1 | 8800 | 0.000005 | 26.252382 | 231020.9659 | 1.155105 | 1.2 | 2100 | 1 | 2100 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | 26.252382 | | | | | | | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.000005 | 26.252382 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#156 | | | | BZ#156 | | | | BZ#157 | | | | BZ#157 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.000005 | 26.252382 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 3500 | 1 | 3500 | 0.000005 | 26.252382 | 91883.33873 | 0.459417 | 0.46 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | 14.01489 | 0 | 0 | 0 | 1600 | 0 | 0 | 0.000005 | 1.58087527 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | 14.01489 | | | | | | | 0.000005 | 1.58087527 | | | |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | 14.01489 | 0 | 0 | 0 | 2100 | 0 | 0 | 0.000005 | 1.58087527 | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 15000 | 1 | 15000 | 0.000005 | 14.01489 | 210223.3498 | 1.051117 | 1.1 | 5700 | 0 | 0 | 0.000005 | 1.58087527 | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3600 | 1 | 3600 | 0.000005 | 14.01489 | 50453.60394 | 0.252268 | 0.25 | 2000 | 0 | 0 | 0.000005 | 1.58087527 | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 5400 | 1 | 5400 | 0.000005 | 14.01489 | 75680.40592 | 0.378402 | 0.38 | 1700 | 0 | 0 | 0.000005 | 1.58087527 | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 11000 | 1 | 11000 | 0.000005 | 14.01489 | 154163.7898 | 0.770819 | 0.77 | 4800 | 0 | 0 | 0.000005 | 1.58087527 | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 17000 | 1 | 17000 | 0.000005 | 14.01489 | 238253.1297 | 1.191266 | 1.2 | 6300 | 0 | 0 | 0.000005 | 1.58087527 | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 11000 | 1 | 11000 | 0.000005 | 14.01489 | 154163.7898 | 0.770819 | 0.77 | 3500 | 0 | 0 | 0.000005 | 1.58087527 | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 8800 | 1 | 8800 | 0.000005 | 14.01489 | 123331.0319 | 0.616655 | 0.62 | 2100 | 1 | 2100 | 0.000005 | 1.58087527 | 3319.83806 | 0.016599 | 0.017 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | 14.01489 | | | | | | | 0.000005 | 1.58087527 | | | |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.000005 | 14.01489 | 0 | 0 | 0 | 5800 | 0 | 0 | 0.000005 | 1.58087527 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.000005 | 14.01489 | 0 | 0 | 0 | 1800 | 0 | 0 | 0.000005 | 1.58087527 | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 3500 | 1 | 3500 | 0.000005 | 14.01489 | 49052.11495 | 0.245261 | 0.25 | 2100 | 0 | 0 | 0.000005 | 1.58087527 | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | | BZ#167 | | | | BZ#169 | | | | BZ#169 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 3200 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.00005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 4200 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 11000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3900 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 3400 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 9600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 13000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 7000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3900 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.00005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 3600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 4200 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 3200 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.00005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 4200 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 11000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3900 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 3400 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 9600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 13000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 7000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3900 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.00005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 3600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 4200 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 3200 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.00005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 4200 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 11000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3900 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 3400 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 9600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 13000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 7000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3900 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.00005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#167 | | | | | | | | BZ#169 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 3600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 4200 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 3200 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.00005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 4200 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 11000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3900 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 3400 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 9600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 13000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 7000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3900 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.00005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 3600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 4200 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.00005 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | | BZ#77 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#189 | | | | BZ#189 | | | | BZ#77 | | | | BZ#77 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 1600 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1600 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 5700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 1700 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1700 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 4800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 4800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 6300 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 6300 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 3500 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 3500 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 2000 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2000 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.000005 | NA | 0 | 0 | 0 | | | | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 5800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 5800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 1800 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 1800 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 2100 | 0 | 0 | 0.000005 | NA | 0 | 0 | 0 | 2100 | 0 | 0 | 0.0001 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Bottom Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 3200 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 4200 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 11000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Bottom Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3900 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 3400 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 9600 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Bottom Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 13000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 7000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3900 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.0005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 3600 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Bottom Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 4200 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| Forage Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 3200 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 4200 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 11000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Forage Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3900 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 3400 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 9600 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Forage Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 13000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 7000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3900 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.0005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 3600 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Forage Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 4200 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| Predator Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 3200 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 4200 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 11000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Predator Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3900 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 3400 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 9600 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Predator Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 13000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 7000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3900 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.0005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

| Prey Tissue | Assessment Area | Riparian-Assessment Area | Location | Sample ID | Sample Type | Sample Date | Matrix | Chemical | BZ#81 | | | | BZ#81 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Unit | mg/kg dw converted to ng/kg dw | | | | | | | |
| | | | | | | | | Count | Value | Detect | Value/ ND=0 | Fish TEF | BAF (dw/dw) | Modeled Conc | Fish TEC | Fish TEC (2 sig figs) |
| Predator Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 3600 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| Predator Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 4200 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| All Fish | UAA | NA | CU-006-03 | C10519 | Original | 6/9/2007 | SED | 1 | 3200 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-03 | C10552 | Original | 6/10/2007 | SED | 2 | | | | 0.0005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-01 | C10571 | Original | 6/11/2007 | SED | 3 | 4200 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-61 | C10708 | Original | 10/2/2009 | SED | 4 | 11000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| All Fish | LAA | NA | ELA-02-66 | C10713 | Original | 10/2/2009 | SED | 5 | 3900 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-01-02 | C10721 | Original | 9/29/2009 | SED | 6 | 3400 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-02-09 | C10729 | Original | 9/29/2009 | SED | 7 | 9600 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| All Fish | MAA | NA | EMA-03-35 | C10737 | Original | 9/30/2009 | SED | 8 | 13000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-01-24 | C10744 | Original | 9/30/2009 | SED | 9 | 7000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10745 | Original | 10/1/2009 | SED | 10 | 3900 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | EUA-02-43 | C10746 | Field Duplicate | 10/1/2009 | SED | 11 | | | | 0.0005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-008-04 | C10556 | Original | 6/10/2007 | SED | 12 | 12000 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-02 | C10576 | Original | 6/11/2007 | SED | 13 | 3600 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |
| All Fish | UAA | NA | CU-010-04 | C10604 | Original | 6/12/2007 | SED | 14 | 4200 | 0 | 0 | 0.0005 | NA | 0 | 0 | 0 |

**Table F2-6. Modeled Tissue Fish TEQ Concentrations**
**Anniston PCB Site, Anniston, Alabama**

**Notes:**
BAF: bioaccumulation factor
DL-PCB: dioxin-like polychlorinated biphenyls
dw: dry weight
LAA: lower assessment area
MAA: middle assessment area
NA: not applicable
mg/kg dw: milligrams per kilogram dry weight
ND: nondetect
ng/kg dw: nanograms per kilogram dry weight
PCDD: polychlorinated dibenzo-p-dioxin
PCDF: polychlorinated dibenzofuran
SED: sediment
SO: soil
TEC: threshold effect concentration
TEF: toxic equivalency factor
UAA: upper assessment area

# ATTACHMENT F3

## TEQ Food Web Models

**Appendix F Attachment 3**

**Table of Contents**

**Tables**

Table F3-1a. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors, Upper Assessment Area: Dioxin/Furan TEQ

Table F3-1b. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors, Upper Assessment Area: Dioxin/Furan TEQ

Table F3-1c. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors, Upper Assessment Area: Dioxin/Furan TEQ

Table F3-1d. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors, Upper Assessment Area: Dioxin/Furan TEQ

Table F3-1e. Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values, Upper Assessment Area: Dioxin/Furan TEQ

Table F3-2a. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors, Middle Assessment Area: Dioxin/Furan TEQ

Table F3-2b. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors, Middle Assessment Area: Dioxin/Furan TEQ

Table F3-2c. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors, Middle Assessment Area: Dioxin/Furan TEQ

Table F3-2d. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors, Middle Assessment Area: Dioxin/Furan TEQ

Table F3-2e. Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values, Middle Assessment Area: Dioxin/Furan TEQ

Table F3-3a. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors, Lower Assessment Area: Dioxin/Furan TEQ

Table F3-3b. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors, Lower Assessment Area: Dioxin/Furan TEQ

Table F3-3c. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors, Lower Assessment Area: Dioxin/Furan TEQ

Table F3-3d. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors, Lower Assessment Area: Dioxin/Furan TEQ

Table F3-3e. Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values, Lower Assessment Area: Dioxin/Furan TEQ

Table F3-4a. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors, Upper Assessment Area: Dioxin-Like PCB TEQ

Table F3-4b. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors, Upper Assessment Area: Dioxin-Like PCB TEQ

Table F3-4c. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors, Upper Assessment Area: Dioxin-Like PCB TEQ

Table F3-4d. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors, Upper Assessment Area: Dioxin-Like PCB TEQ

Table F3-4e. Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values, Upper Assessment Area: Dioxin-Like PCB TEQ

Table F3-5a. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors, Middle Assessment Area: Dioxin-Like PCB TEQ

Table F3-5b. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors, Middle Assessment Area: Dioxin-Like PCB TEQ

Table F3-5c. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors, Middle Assessment Area: Dioxin-Like PCB TEQ

Table F3-5d. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors, Middle Assessment Area: Dioxin-Like PCB TEQ

Table F3-5e. Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values, Middle Assessment Area: Dioxin-Like PCB TEQ

Table F3-6a. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors, Lower Assessment Area: Dioxin-Like PCB TEQ

Table F3-6b. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors, Lower Assessment Area: Dioxin-Like PCB TEQ

Table F3-6c. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors, Lower Assessment Area: Dioxin-Like PCB TEQ

Table F3-6d. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors, Lower Assessment Area: Dioxin-Like PCB TEQ

Table F3-6e. Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values, Lower Assessment Area: Dioxin-Like PCB TEQ

Table F3-7a. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors, Upper Assessment Area: Total TEQ

Table F3-7b. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors, Upper Assessment Area: Total TEQ

Table F3-7c. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors, Upper Assessment Area: Total TEQ

Table F3-7d. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors, Upper Assessment Area: Total TEQ

Table F3-7e. Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values, Upper Assessment Area: Total TEQ

Table F3-8a. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors, Middle Assessment Area: Total TEQ

Table F3-8b. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors, Middle Assessment Area: Total TEQ

Table F3-8c. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors, Middle Assessment Area: Total TEQ

Table F3-8d. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors, Middle Assessment Area: Total TEQ

Table F3-8e. Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values, Middle Assessment Area: Total TEQ

Table F3-9a. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors, Lower Assessment Area: Total TEQ

Table F3-9b. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors, Lower Assessment Area: Total TEQ

Table F3-9c. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors, Lower Assessment Area: Total TEQ

Table F3-9d. Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors, Lower Assessment Area: Total TEQ

Table F3-9e. Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values, Lower Assessment Area: Total TEQ

**Table F3-1a**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Upper Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow** | **Avian TEQ** | **1.03E+02** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | **1.03E+02** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1** | **Avian TEQ** | **1.03E+02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2** | **Avian TEQ** | **1.03E+02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey** | **Avian TEQ** | **1.03E+02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | **3.14E+01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | **3.14E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table F3-1a**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Upper Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate |
| **Tree Swallow** | **Avian TEQ** | 1.04E+02 | 4.82E+02 | 1.93E+02 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 1.04E+02 | 4.82E+02 | 1.93E+02 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 |
| **Kingfisher - 1** | **Avian TEQ** | 1.04E+02 | 4.82E+02 | 1.93E+02 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Kingfisher - 2** | **Avian TEQ** | 1.04E+02 | 4.82E+02 | 1.93E+02 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Osprey** | **Avian TEQ** | 1.04E+02 | 4.82E+02 | 1.93E+02 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | 1.38E+01 | 6.87E+01 | 3.50E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 8.10E+01 | 6.38E+01 | 3.46E+01 | 1.97E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | 1.38E+01 | 6.87E+01 | 3.50E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 8.10E+01 | 6.38E+01 | 3.46E+01 | 1.97E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 |

**Table F3-1a**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Upper Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Sediment + Prey | NOAEL TRV | NOAEL HQ |
| **Tree Swallow** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 4.64E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E+01 | 1.45E+02 | 3E-01 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 0.00E+00 | 4.29E+01 | 0.00E+00 | 4.29E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.30E+00 | 8.92E+01 | 1.45E+02 | 6E-01 |
| **Kingfisher - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.75E+01 | 0.00E+00 | 0.00E+00 | 3.25E-01 | 9.78E+01 | 1.45E+02 | 7E-01 |
| **Kingfisher - 2** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E+00 | 0.00E+00 | 0.00E+00 | 7.41E+01 | 0.00E+00 | 6.87E-01 | 3.25E-01 | 7.76E+01 | 1.45E+02 | 5E-01 |
| **Osprey** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.86E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.86E+01 | 1.45E+02 | 4E-01 |
| **Bat** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 6.20E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.20E+00 | 2.50E+01 | 2E-01 |
| **Otter** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E+00 | 6.21E-01 | 6.67E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E+00 | 2.50E+01 | 1E-01 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-1b**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Upper Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (ng/kg) | Percent Diet (%) | | | | | | | Modeled Tissue (ng/kg dry weight) | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Terrestrial Spiders/ Detritivores | Riparian Spiders/ Detritivores | Small Mammals | Body Weight (kg) |
| **Mourning Dove** | **Avian TEQ** | **4.65E+01** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.76E+00 | 3.70E+00 | 3.70E+00 | 3.70E+00 | 3.70E+00 | 5.48E+01 | 1.20E-01 |
| **Blue Jay** | **Avian TEQ** | **4.65E+01** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.76E+00 | 3.70E+00 | 3.70E+00 | 3.70E+00 | 3.70E+00 | 5.48E+01 | 8.70E-02 |
| **Carolina Wren - 1** | **Avian TEQ** | **4.65E+01** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.76E+00 | 3.70E+00 | 3.70E+00 | 3.70E+00 | 3.70E+00 | 5.48E+01 | 2.00E-02 |
| **Shrew - 1** | **Mammalian TEQ** | **1.58E+01** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.07E+00 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 1.02E+01 | 1.70E-02 |
| **Deer** | **Mammalian TEQ** | **1.58E+01** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.07E+00 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 1.02E+01 | 5.66E+01 |
| **Weasel** | **Mammalian TEQ** | **1.58E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.07E+00 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 1.02E+01 | 3.00E-01 |
| **Fox - 1** | **Mammalian TEQ** | **1.58E+01** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.07E+00 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 1.02E+01 | 4.50E+00 |
| **Fox - 2** | **Mammalian TEQ** | **1.58E+01** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.07E+00 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 1.02E+01 | 4.50E+00 |

**Table F3-1b**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Upper Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Intake Estimates (kg dw/kg-day) | | Dose From Dietary Components (ng/kg-day) | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values (ng/kg-day) | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/ Detritivores | Riparian Spiders/ Detritivores | Small Mammals | Soil | Soil + Prey | NOAEL TRV | NOAEL HQ |
| **Mourning Dove** | **Avian TEQ** | 1.41E-01 | 1.96E-02 | 3.89E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.13E-01 | 1.30E+00 | 1.45E+02 | 9E-03 |
| **Blue Jay** | **Avian TEQ** | 1.53E-01 | 2.14E-02 | 3.29E-01 | 6.23E-02 | 0.00E+00 | 6.23E-02 | 0.00E+00 | 0.00E+00 | 9.96E-01 | 1.45E+00 | 1.45E+02 | 1E-02 |
| **Carolina Wren - 1** | **Avian TEQ** | 2.44E-01 | 3.41E-02 | 6.04E-02 | 4.06E-01 | 1.35E-01 | 2.80E-01 | 0.00E+00 | 0.00E+00 | 1.59E+00 | 2.47E+00 | 1.45E+02 | 2E-02 |
| **Shrew - 1** | **Mammalian TEQ** | 1.28E-01 | 3.83E-03 | 1.64E-02 | 2.74E-02 | 3.98E-02 | 2.74E-02 | 0.00E+00 | 0.00E+00 | 6.06E-02 | 1.72E-01 | 2.50E+01 | 7E-03 |
| **Deer** | **Mammalian TEQ** | 1.47E-02 | 2.93E-04 | 1.57E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.63E-03 | 2.03E-02 | 2.50E+01 | 8E-04 |
| **Weasel** | **Mammalian TEQ** | 5.94E-02 | 2.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.08E-01 | 4.03E-02 | 6.48E-01 | 2.50E+01 | 3E-02 |
| **Fox - 1** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 6.89E-03 | 0.00E+00 | 1.27E-03 | 0.00E+00 | 0.00E+00 | 3.06E-01 | 1.68E-02 | 3.31E-01 | 2.50E+01 | 1E-02 |
| **Fox - 2** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 2.03E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.68E-01 | 1.68E-02 | 3.87E-01 | 2.50E+01 | 2E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-1c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Upper Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Carolina Wren - 2** | **Avian TEQ** | **4.65E+01** | **1.03E+02** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | **4.65E+01** | **1.03E+02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | **1.58E+01** | **3.14E+01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | **1.58E+01** | **3.14E+01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |

**Table F3-1c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Upper Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) |
| **Carolina Wren - 2** | **Avian TEQ** | 1.04E+02 | 2.76E+00 | 4.82E+02 | 3.70E+00 | 1.93E+02 | 3.70E+00 | 3.70E+00 | 3.70E+00 | 5.48E+01 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 2.00E-02 |
| **Hawk** | **Avian TEQ** | 1.04E+02 | 2.76E+00 | 4.82E+02 | 3.70E+00 | 1.93E+02 | 3.70E+00 | 3.70E+00 | 3.70E+00 | 5.48E+01 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 1.10E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 1.38E+01 | 1.07E+00 | 6.87E+01 | 8.41E-01 | 3.50E+01 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 1.02E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 8.10E+01 | 6.38E+01 | 3.46E+01 | 1.97E+01 | 5.60E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 1.38E+01 | 1.07E+00 | 6.87E+01 | 8.41E-01 | 3.50E+01 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 1.02E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 8.10E+01 | 6.38E+01 | 3.46E+01 | 1.97E+01 | 1.70E-02 |

**Table F3-1c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Upper Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Carolina Wren - 2** | **Avian TEQ** | 2.44E-01 | 3.41E-02 | 0.00E+00 | 2.29E+00 | 0.00E+00 | 0.00E+00 | 1.35E-01 | 0.00E+00 | 4.06E-01 | 0.00E+00 | 2.80E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.59E+00 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | 8.02E-02 | 4.57E-03 | 4.57E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.82E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E+00 | 0.00E+00 | 2.12E-01 | 4.71E-01 |
| **Raccoon - 1** | **Mammalian TEQ** | 2.68E-02 | 2.52E-03 | 0.00E+00 | 0.00E+00 | 1.26E-02 | 0.00E+00 | 2.26E-03 | 0.00E+00 | 2.26E-03 | 2.26E-03 | 0.00E+00 | 1.46E-02 | 0.00E+00 | 0.00E+00 | 4.07E-02 | 6.89E-02 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 1.59E-02 | 3.98E-02 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 1.28E-01 | 3.83E-03 | 3.83E-03 | 0.00E+00 | 2.33E-02 | 0.00E+00 | 4.41E-02 | 0.00E+00 | 1.88E-02 | 1.88E-02 | 0.00E+00 | 6.54E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.42E-02 | 2.52E-02 | 6.06E-02 | 1.20E-01 |

**Table F3-1c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Upper Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Carolina Wren - 2** | **Avian TEQ** | 2.13E+00 | 2.57E+00 | 4.70E+00 | 1.45E+02 | 1E-02 | 2E-02 | 3E-02 |
| **Hawk** | **Avian TEQ** | 4.03E+00 | 1.99E+00 | 6.02E+00 | 1.45E+02 | 3E-02 | 1E-02 | 4E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | 7.38E-02 | 1.44E-01 | 2.18E-01 | 2.50E+01 | 3E-03 | 6E-03 | 9E-03 |
| **Shrew - 2** | **Mammalian TEQ** | 2.31E-01 | 1.90E-01 | 4.21E-01 | 2.50E+01 | 9E-03 | 8E-03 | 2E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-1d**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Upper Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil |
| **Spotted Sandpiper - 1** | **Avian TEQ** | **6.14E+01** | **1.03E+02** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **GBH** | **Avian TEQ** | **6.14E+01** | **1.03E+02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 |
| **Mink - 1** | **Mammalian TEQ** | **1.72E+01** | **3.14E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | **1.72E+01** | **3.14E+01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | **1.72E+01** | **3.14E+01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 |
| **Raccoon - 2** | **Mammalian TEQ** | **1.72E+01** | **3.14E+01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 |

**Table F3-1d**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Upper Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate |
| Spotted Sandpiper - 1 | Avian TEQ | 9.00E-02 | 1.04E+02 | 2.76E+00 | 4.82E+02 | 3.70E+00 | 1.93E+02 | 3.70E+00 | 3.70E+00 | 3.70E+00 | 5.48E+01 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 |
| GBH | Avian TEQ | 2.00E-02 | 1.04E+02 | 2.76E+00 | 4.82E+02 | 3.70E+00 | 1.93E+02 | 3.70E+00 | 3.70E+00 | 3.70E+00 | 5.48E+01 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 |
| Mink - 1 | Mammalian TEQ | 0.00E+00 | 1.38E+01 | 1.07E+00 | 6.87E+01 | 8.41E-01 | 3.50E+01 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 1.02E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 8.10E+01 | 6.38E+01 | 3.46E+01 | 1.97E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| Mink - 2 | Mammalian TEQ | 0.00E+00 | 1.38E+01 | 1.07E+00 | 6.87E+01 | 8.41E-01 | 3.50E+01 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 1.02E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 8.10E+01 | 6.38E+01 | 3.46E+01 | 1.97E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| Raccoon - 1 | Mammalian TEQ | 0.00E+00 | 1.38E+01 | 1.07E+00 | 6.87E+01 | 8.41E-01 | 3.50E+01 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 1.02E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 8.10E+01 | 6.38E+01 | 3.46E+01 | 1.97E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 |
| Raccoon - 2 | Mammalian TEQ | 9.40E-02 | 1.38E+01 | 1.07E+00 | 6.87E+01 | 8.41E-01 | 3.50E+01 | 8.41E-01 | 8.41E-01 | 8.41E-01 | 1.02E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 8.10E+01 | 6.38E+01 | 3.46E+01 | 1.97E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 |

**Table F3-1d**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Upper Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 4.29E+01 | 3.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-01 | 1.65E+00 |
| **GBH** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.64E-02 | 0.00E+00 | 0.00E+00 | 1.47E-01 | 1.37E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.15E-01 | 0.00E+00 | 3.63E-01 |
| **Mink - 1** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.23E-01 | 0.00E+00 | 0.00E+00 | 5.19E-02 | 0.00E+00 | 0.00E+00 | 6.63E-01 | 0.00E+00 | 2.54E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 6.83E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E-02 | 0.00E+00 | 0.00E+00 | 2.31E-02 | 0.00E+00 | 0.00E+00 | 2.71E+00 | 0.00E+00 | 2.93E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 1.26E-02 | 0.00E+00 | 2.26E-03 | 0.00E+00 | 2.26E-03 | 2.26E-03 | 0.00E+00 | 1.46E-02 | 0.00E+00 | 0.00E+00 | 4.07E-02 | 6.89E-02 | 0.00E+00 | 0.00E+00 | 1.85E-02 | 1.59E-02 | 4.34E-02 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 6.30E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-02 | 5.53E-02 | 1.54E+00 | 4.07E-02 | 7.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.35E-02 | 0.00E+00 | 7.92E-02 |

**Table F3-1d**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Upper Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 1.31E+00 | 4.46E+01 | 4.59E+01 | 1.45E+02 | 9E-03 | 3E-01 | 3E-01 |
| **GBH** | **Avian TEQ** | 9.64E-02 | 1.38E+02 | 1.38E+02 | 1.45E+02 | 7E-04 | 1E+00 | 1E+00 |
| **Mink - 1** | **Mammalian TEQ** | 2.23E-01 | 9.68E-01 | 1.19E+00 | 2.50E+01 | 9E-03 | 4E-02 | 5E-02 |
| **Mink - 2** | **Mammalian TEQ** | 3.04E-02 | 2.77E+00 | 2.80E+00 | 2.50E+01 | 1E-03 | 1E-01 | 1E-01 |
| **Raccoon - 1** | **Mammalian TEQ** | 7.73E-02 | 1.44E-01 | 2.21E-01 | 2.50E+01 | 3E-03 | 6E-03 | 9E-03 |
| **Raccoon - 2** | **Mammalian TEQ** | 5.22E-02 | 2.56E+00 | 2.61E+00 | 2.50E+01 | 2E-03 | 1E-01 | 1E-01 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-1e**
**Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values**
**Upper Assessment Area: Dioxin/Furan TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC | Modeled Fish Tissue Fish EPC | Toxicity Reference Values (ng/kg dw) | | Hazard Quotients (unitless) | |
|---|---|---|---|---|---|---|---|
| | | | (ng/kg dw) | Fish NOAEL (Mean Lipid) | Fish NOAEL (Max Lipid) | Fish (Mean Lipid) | Fish (Max Lipid) |
| **All Fish** | **Fish TEQ** | 3.1E+01 | 7.53E+01 | 2.6E+02 | 5.7E+02 | 3.0E-01 | 1.3E-01 |
| **Forage Fish** | **Fish TEQ** | 3.1E+01 | 1.09E+02 | 2.6E+02 | 5.7E+02 | 4.3E-01 | 1.9E-01 |
| **Bottom Fish** | **Fish TEQ** | 3.1E+01 | 5.91E+01 | 2.6E+02 | 5.7E+02 | 2.3E-01 | 1.0E-01 |
| **Predator Fish** | **Fish TEQ** | 3.1E+01 | 2.05E+01 | 2.6E+02 | 5.7E+02 | 8.0E-02 | 3.6E-02 |

**Notes:**
COPC: constituent of potential concern
EPC: exposure point concentration
NOAEL: no observed adverse effect level
ng/kg dw: nanogram per kilogram dry weight
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent

**Table F3-2a**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Middle Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow** | **Avian TEQ** | **5.30E+01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | **5.30E+01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1** | **Avian TEQ** | **5.30E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2** | **Avian TEQ** | **5.30E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey** | **Avian TEQ** | **5.30E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | **1.51E+01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | **1.51E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table F3-2a**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Middle Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate |
| **Tree Swallow** | **Avian TEQ** | 5.30E+01 | 2.54E+02 | 9.66E+01 | 2.54E+02 | 1.90E+03 | 4.50E+01 | 5.28E+02 | 4.20E+02 | 4.33E+02 | 8.62E+01 | 4.59E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 5.30E+01 | 2.54E+02 | 9.66E+01 | 2.54E+02 | 1.90E+03 | 4.50E+01 | 5.28E+02 | 4.20E+02 | 4.33E+02 | 8.62E+01 | 4.59E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 |
| **Kingfisher - 1** | **Avian TEQ** | 5.30E+01 | 2.54E+02 | 9.66E+01 | 2.54E+02 | 1.90E+03 | 4.50E+01 | 5.28E+02 | 4.20E+02 | 4.33E+02 | 8.62E+01 | 4.59E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Kingfisher - 2** | **Avian TEQ** | 5.30E+01 | 2.54E+02 | 9.66E+01 | 2.54E+02 | 1.90E+03 | 4.50E+01 | 5.28E+02 | 4.20E+02 | 4.33E+02 | 8.62E+01 | 4.59E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Osprey** | **Avian TEQ** | 5.30E+01 | 2.54E+02 | 9.66E+01 | 2.54E+02 | 1.90E+03 | 4.50E+01 | 5.28E+02 | 4.20E+02 | 4.33E+02 | 8.62E+01 | 4.59E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | 6.35E+00 | 3.43E+01 | 2.22E+01 | 3.43E+01 | 2.19E+02 | 6.60E+00 | 1.42E+02 | 4.24E+01 | 1.43E+02 | 2.23E+01 | 9.28E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | 6.35E+00 | 3.43E+01 | 2.22E+01 | 3.43E+01 | 2.19E+02 | 6.60E+00 | 1.42E+02 | 4.24E+01 | 1.43E+02 | 2.23E+01 | 9.28E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 |

**Table F3-2a**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Middle Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Sediment + Prey | NOAEL TRV | NOAEL HQ |
| **Tree Swallow** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 2.32E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.32E+01 | 1.45E+02 | 2E-01 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 0.00E+00 | 2.26E+01 | 0.00E+00 | 2.26E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E+00 | 4.69E+01 | 1.45E+02 | 3E-01 |
| **Kingfisher - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.83E+01 | 0.00E+00 | 0.00E+00 | 1.67E-01 | 6.84E+01 | 1.45E+02 | 5E-01 |
| **Kingfisher - 2** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E+00 | 0.00E+00 | 0.00E+00 | 5.19E+01 | 0.00E+00 | 3.61E-01 | 1.67E-01 | 5.37E+01 | 1.45E+02 | 4E-01 |
| **Osprey** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E+01 | 1.45E+02 | 3E-01 |
| **Bat** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 3.94E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.94E+00 | 2.50E+01 | 2E-01 |
| **Otter** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.38E+00 | 3.26E-01 | 1.50E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.21E+00 | 2.50E+01 | 2E-01 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-2b**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Middle Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (ng/kg) | Percent Diet (%) | | | | | | | Modeled Tissue (ng/kg dry weight) | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Terrestrial Spiders/ Detritivores | Riparian Spiders/ Detritivores | Small Mammals | Body Weight (kg) |
| **Mourning Dove** | **Avian TEQ** | **1.28E+02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 8.89E+00 | 1.16E+01 | 1.16E+01 | 1.16E+01 | 1.16E+01 | 1.41E+02 | 1.20E-01 |
| **Blue Jay** | **Avian TEQ** | **1.28E+02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 8.89E+00 | 1.16E+01 | 1.16E+01 | 1.16E+01 | 1.16E+01 | 1.41E+02 | 8.70E-02 |
| **Carolina Wren - 1** | **Avian TEQ** | **1.28E+02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 8.89E+00 | 1.16E+01 | 1.16E+01 | 1.16E+01 | 1.16E+01 | 1.41E+02 | 2.00E-02 |
| **Shrew - 1** | **Mammalian TEQ** | **3.23E+01** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.38E+00 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 1.35E+01 | 1.70E-02 |
| **Deer** | **Mammalian TEQ** | **3.23E+01** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.38E+00 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 1.35E+01 | 5.66E+01 |
| **Weasel** | **Mammalian TEQ** | **3.23E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.38E+00 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 1.35E+01 | 3.00E-01 |
| **Fox - 1** | **Mammalian TEQ** | **3.23E+01** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.38E+00 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 1.35E+01 | 4.50E+00 |
| **Fox - 2** | **Mammalian TEQ** | **3.23E+01** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.38E+00 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 1.35E+01 | 4.50E+00 |

**Table F3-2b**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Middle Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Intake Estimates (kg dw/kg-day) | | Dose From Dietary Components (ng/kg-day) | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values (ng/kg-day) | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/ Detritivores | Riparian Spiders/ Detritivores | Small Mammals | Soil | Soil + Prey | NOAEL TRV | NOAEL HQ |
| **Mourning Dove** | **Avian TEQ** | 1.41E-01 | 1.96E-02 | 1.26E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E+00 | 3.77E+00 | 1.45E+02 | 3E-02 |
| **Blue Jay** | **Avian TEQ** | 1.53E-01 | 2.14E-02 | 1.06E+00 | 1.96E-01 | 0.00E+00 | 1.96E-01 | 0.00E+00 | 0.00E+00 | 2.74E+00 | 4.19E+00 | 1.45E+02 | 3E-02 |
| **Carolina Wren - 1** | **Avian TEQ** | 2.44E-01 | 3.41E-02 | 1.95E-01 | 1.28E+00 | 4.25E-01 | 8.79E-01 | 0.00E+00 | 0.00E+00 | 4.37E+00 | 7.14E+00 | 1.45E+02 | 5E-02 |
| **Shrew - 1** | **Mammalian TEQ** | 1.28E-01 | 3.83E-03 | 3.65E-02 | 6.94E-02 | 1.01E-01 | 6.94E-02 | 0.00E+00 | 0.00E+00 | 1.24E-01 | 4.00E-01 | 2.50E+01 | 2E-02 |
| **Deer** | **Mammalian TEQ** | 1.47E-02 | 2.93E-04 | 3.48E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.47E-03 | 4.43E-02 | 2.50E+01 | 2E-03 |
| **Weasel** | **Mammalian TEQ** | 5.94E-02 | 2.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.00E-01 | 8.24E-02 | 8.82E-01 | 2.50E+01 | 4E-02 |
| **Fox - 1** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 1.53E-02 | 0.00E+00 | 3.22E-03 | 0.00E+00 | 0.00E+00 | 4.03E-01 | 3.42E-02 | 4.56E-01 | 2.50E+01 | 2E-02 |
| **Fox - 2** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 4.50E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.85E-01 | 3.42E-02 | 5.23E-01 | 2.50E+01 | 2E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-2c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Middle Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Carolina Wren - 2** | **Avian TEQ** | **1.28E+02** | **5.30E+01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | **1.28E+02** | **5.30E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 | 5.70E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | **3.23E+01** | **1.51E+01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | **3.23E+01** | **1.51E+01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 | 3.00E-02 |

**Table F3-2c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Middle Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians |
| **Carolina Wren - 2** | **Avian TEQ** | 5.30E+01 | 8.89E+00 | 2.54E+02 | 1.16E+01 | 9.66E+01 | 1.16E+01 | 1.16E+01 | 1.16E+01 | 1.41E+02 | 2.54E+02 | 1.90E+03 | 4.50E+01 | 5.28E+02 | 4.20E+02 | 4.33E+02 | 8.62E+01 | 4.59E+01 |
| **Hawk** | **Avian TEQ** | 5.30E+01 | 8.89E+00 | 2.54E+02 | 1.16E+01 | 9.66E+01 | 1.16E+01 | 1.16E+01 | 1.16E+01 | 1.41E+02 | 2.54E+02 | 1.90E+03 | 4.50E+01 | 5.28E+02 | 4.20E+02 | 4.33E+02 | 8.62E+01 | 4.59E+01 |
| **Raccoon - 1** | **Mammalian TEQ** | 6.35E+00 | 2.38E+00 | 3.43E+01 | 2.13E+00 | 2.22E+01 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 1.35E+01 | 3.43E+01 | 2.19E+02 | 6.60E+00 | 1.42E+02 | 4.24E+01 | 1.43E+02 | 2.23E+01 | 9.28E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 6.35E+00 | 2.38E+00 | 3.43E+01 | 2.13E+00 | 2.22E+01 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 1.35E+01 | 3.43E+01 | 2.19E+02 | 6.60E+00 | 1.42E+02 | 4.24E+01 | 1.43E+02 | 2.23E+01 | 9.28E+00 |

**Table F3-2c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Middle Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Carolina Wren - 2** | **Avian TEQ** | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 | 1.16E+00 | 0.00E+00 | 0.00E+00 | 4.25E-01 | 0.00E+00 | 1.28E+00 | 0.00E+00 | 8.79E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.37E+00 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.86E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.98E-01 | 0.00E+00 | 5.85E-01 | 2.42E-01 |
| **Raccoon - 1** | **Mammalian TEQ** | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 | 0.00E+00 | 2.81E-02 | 0.00E+00 | 5.71E-03 | 0.00E+00 | 5.71E-03 | 5.71E-03 | 0.00E+00 | 1.92E-02 | 0.00E+00 | 0.00E+00 | 2.30E-02 | 8.40E-02 | 0.00E+00 | 0.00E+00 | 1.19E-02 | 7.47E-03 | 8.15E-02 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 | 0.00E+00 | 5.17E-02 | 0.00E+00 | 1.12E-01 | 0.00E+00 | 4.76E-02 | 4.76E-02 | 0.00E+00 | 8.61E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.85E-02 | 1.19E-02 | 1.24E-01 | 5.79E-02 |

**Table F3-2c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Middle Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Carolina Wren - 2** | **Avian TEQ** | 6.07E+00 | 2.04E+00 | 8.11E+00 | 1.45E+02 | 4E-02 | 1E-02 | 6E-02 |
| **Hawk** | **Avian TEQ** | 1.04E+01 | 1.14E+00 | 1.16E+01 | 1.45E+02 | 7E-02 | 8E-03 | 8E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | 1.46E-01 | 1.26E-01 | 2.72E-01 | 2.50E+01 | 6E-03 | 5E-03 | 1E-02 |
| **Shrew - 2** | **Mammalian TEQ** | 4.68E-01 | 9.82E-02 | 5.67E-01 | 2.50E+01 | 2E-02 | 4E-03 | 2E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-2d**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Middle Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil |
| **Spotted Sandpiper - 1** | **Avian TEQ** | **1.51E+02** | **5.30E+01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **GBH** | **Avian TEQ** | **1.51E+02** | **5.30E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 |
| **Mink - 1** | **Mammalian TEQ** | **3.86E+01** | **1.51E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | **3.86E+01** | **1.51E+01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | **3.86E+01** | **1.51E+01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 |
| **Raccoon - 2** | **Mammalian TEQ** | **3.86E+01** | **1.51E+01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 |

**Table F3-2d**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Middle Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 9.00E-02 | 5.30E+01 | 8.89E+00 | 2.54E+02 | 1.16E+01 | 9.66E+01 | 1.16E+01 | 1.16E+01 | 1.16E+01 | 1.41E+02 | 2.54E+02 | 1.90E+03 | 4.50E+01 | 5.28E+02 | 4.20E+02 | 4.33E+02 | 8.62E+01 | 4.59E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 |
| **GBH** | **Avian TEQ** | 2.00E-02 | 5.30E+01 | 8.89E+00 | 2.54E+02 | 1.16E+01 | 9.66E+01 | 1.16E+01 | 1.16E+01 | 1.16E+01 | 1.41E+02 | 2.54E+02 | 1.90E+03 | 4.50E+01 | 5.28E+02 | 4.20E+02 | 4.33E+02 | 8.62E+01 | 4.59E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 |
| **Mink - 1** | **Mammalian TEQ** | 0.00E+00 | 6.35E+00 | 2.38E+00 | 3.43E+01 | 2.13E+00 | 2.22E+01 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 1.35E+01 | 3.43E+01 | 2.19E+02 | 6.60E+00 | 1.42E+02 | 4.24E+01 | 1.43E+02 | 2.23E+01 | 9.28E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 0.00E+00 | 6.35E+00 | 2.38E+00 | 3.43E+01 | 2.13E+00 | 2.22E+01 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 1.35E+01 | 3.43E+01 | 2.19E+02 | 6.60E+00 | 1.42E+02 | 4.24E+01 | 1.43E+02 | 2.23E+01 | 9.28E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 6.35E+00 | 2.38E+00 | 3.43E+01 | 2.13E+00 | 2.22E+01 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 1.35E+01 | 3.43E+01 | 2.19E+02 | 6.60E+00 | 1.42E+02 | 4.24E+01 | 1.43E+02 | 2.23E+01 | 9.28E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 9.40E-02 | 6.35E+00 | 2.38E+00 | 3.43E+01 | 2.13E+00 | 2.22E+01 | 2.13E+00 | 2.13E+00 | 2.13E+00 | 1.35E+01 | 3.43E+01 | 2.19E+02 | 6.60E+00 | 1.42E+02 | 4.24E+01 | 1.43E+02 | 2.23E+01 | 9.28E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 |

**Table F3-2d**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Middle Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 2.26E+01 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.42E+00 | 8.49E-01 |
| **GBH** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.49E-01 | 0.00E+00 | 0.00E+00 | 7.91E-02 | 8.74E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.23E-01 | 0.00E+00 | 1.87E-01 |
| **Mink - 1** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-01 | 0.00E+00 | 0.00E+00 | 2.94E-02 | 0.00E+00 | 0.00E+00 | 1.49E+00 | 0.00E+00 | 1.19E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 3.14E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 1.31E-02 | 0.00E+00 | 0.00E+00 | 6.10E+00 | 0.00E+00 | 1.38E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 2.81E-02 | 0.00E+00 | 5.71E-03 | 0.00E+00 | 5.71E-03 | 5.71E-03 | 0.00E+00 | 1.92E-02 | 0.00E+00 | 0.00E+00 | 2.30E-02 | 8.40E-02 | 0.00E+00 | 0.00E+00 | 1.19E-02 | 7.47E-03 | 9.73E-02 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 2.90E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.87E-02 | 2.76E-02 | 7.63E-01 | 2.30E-02 | 8.79E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E-02 | 0.00E+00 | 3.81E-02 |

**Table F3-2d**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Middle Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 3.45E+00 | 2.35E+01 | 2.69E+01 | 1.45E+02 | 2E-02 | 2E-01 | 2E-01 |
| **GBH** | **Avian TEQ** | 2.49E-01 | 8.80E+01 | 8.82E+01 | 1.45E+02 | 2E-03 | 6E-01 | 6E-01 |
| **Mink - 1** | **Mammalian TEQ** | 2.93E-01 | 1.64E+00 | 1.93E+00 | 2.50E+01 | 1E-02 | 7E-02 | 8E-02 |
| **Mink - 2** | **Mammalian TEQ** | 4.00E-02 | 6.13E+00 | 6.17E+00 | 2.50E+01 | 2E-03 | 2E-01 | 2E-01 |
| **Raccoon - 1** | **Mammalian TEQ** | 1.62E-01 | 1.26E-01 | 2.88E-01 | 2.50E+01 | 6E-03 | 5E-03 | 1E-02 |
| **Raccoon - 2** | **Mammalian TEQ** | 6.87E-02 | 1.79E+00 | 1.86E+00 | 2.50E+01 | 3E-03 | 7E-02 | 7E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-2e**
**Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values**
**Middle Assessment Area: Dioxin/Furan TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC | Modeled Fish Tissue Fish EPC | Toxicity Reference Values (ng/kg dw) | | Hazard Quotients (unitless) | |
|---|---|---|---|---|---|---|---|
| | | | (ng/kg dw) | Fish NOAEL (Mean Lipid) | Fish NOAEL (Max Lipid) | Fish (Mean Lipid) | Fish (Max Lipid) |
| **All Fish** | **Fish TEQ** | 1.5E+01 | 7.53E+01 | 2.6E+02 | 5.7E+02 | 3.0E-01 | 1.3E-01 |
| **Forage Fish** | **Fish TEQ** | 1.5E+01 | 1.09E+02 | 2.6E+02 | 5.7E+02 | 4.3E-01 | 1.9E-01 |
| **Bottom Fish** | **Fish TEQ** | 1.5E+01 | 5.91E+01 | 2.6E+02 | 5.7E+02 | 2.3E-01 | 1.0E-01 |
| **Predator Fish** | **Fish TEQ** | 1.5E+01 | 2.05E+01 | 2.6E+02 | 5.7E+02 | 8.0E-02 | 3.6E-02 |

**Notes:**
COPC: constituent of potential concern
EPC: exposure point concentration
NOAEL: no observed adverse effect level
ng/kg dw: nanogram per kilogram dry weight
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent

**Table F3-3a**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Lower Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow** | **Avian TEQ** | **4.91E+01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | **4.91E+01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1** | **Avian TEQ** | **4.91E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2** | **Avian TEQ** | **4.91E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey** | **Avian TEQ** | **4.91E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | **1.39E+01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | **1.39E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table F3-3a**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Lower Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate |
| **Tree Swallow** | **Avian TEQ** | 4.89E+01 | 2.32E+02 | 8.90E+01 | 2.32E+02 | 1.80E+03 | 4.27E+01 | 4.23E+02 | 3.90E+02 | 2.93E+02 | 8.05E+01 | 4.35E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 4.89E+01 | 2.32E+02 | 8.90E+01 | 2.32E+02 | 1.80E+03 | 4.27E+01 | 4.23E+02 | 3.90E+02 | 2.93E+02 | 8.05E+01 | 4.35E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 |
| **Kingfisher - 1** | **Avian TEQ** | 4.89E+01 | 2.32E+02 | 8.90E+01 | 2.32E+02 | 1.80E+03 | 4.27E+01 | 4.23E+02 | 3.90E+02 | 2.93E+02 | 8.05E+01 | 4.35E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Kingfisher - 2** | **Avian TEQ** | 4.89E+01 | 2.32E+02 | 8.90E+01 | 2.32E+02 | 1.80E+03 | 4.27E+01 | 4.23E+02 | 3.90E+02 | 2.93E+02 | 8.05E+01 | 4.35E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Osprey** | **Avian TEQ** | 4.89E+01 | 2.32E+02 | 8.90E+01 | 2.32E+02 | 1.80E+03 | 4.27E+01 | 4.23E+02 | 3.90E+02 | 2.93E+02 | 8.05E+01 | 4.35E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | 5.97E+00 | 3.20E+01 | 2.18E+01 | 3.20E+01 | 2.07E+02 | 6.39E+00 | 6.42E+01 | 3.94E+01 | 3.02E+01 | 1.93E+01 | 8.81E+00 | 9.00E-03 | 1.77E-01 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | 5.97E+00 | 3.20E+01 | 2.18E+01 | 3.20E+01 | 2.07E+02 | 6.39E+00 | 6.42E+01 | 3.94E+01 | 3.02E+01 | 1.93E+01 | 8.81E+00 | 7.40E+00 | 3.49E-02 | 0.00E+00 |

**Table F3-3a**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Lower Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Sediment + Prey | NOAEL TRV | NOAEL HQ |
| **Tree Swallow** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 2.14E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E+01 | 1.45E+02 | 1E-01 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 0.00E+00 | 2.07E+01 | 0.00E+00 | 2.07E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E+00 | 4.29E+01 | 1.45E+02 | 3E-01 |
| **Kingfisher - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.61E+01 | 0.00E+00 | 0.00E+00 | 1.55E-01 | 4.62E+01 | 1.45E+02 | 3E-01 |
| **Kingfisher - 2** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E+00 | 0.00E+00 | 0.00E+00 | 3.50E+01 | 0.00E+00 | 3.43E-01 | 1.55E-01 | 3.68E+01 | 1.45E+02 | 3E-01 |
| **Osprey** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E+01 | 1.45E+02 | 2E-01 |
| **Bat** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 3.86E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E+00 | 2.50E+01 | 2E-01 |
| **Otter** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E+00 | 3.02E-01 | 3.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E+00 | 2.50E+01 | 7E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-3b**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Lower Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (ng/kg) | Percent Diet (%) | | | | | | | Modeled Tissue (ng/kg dry weight) | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Terrestrial Spiders/ Detritivores | Riparian Spiders/ Detritivores | Small Mammals | Body Weight (kg) |
| **Mourning Dove** | **Avian TEQ** | **2.47E+02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.94E+01 | 3.13E+01 | 3.13E+01 | 3.13E+01 | 3.13E+01 | 7.24E+01 | 1.20E-01 |
| **Blue Jay** | **Avian TEQ** | **2.47E+02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.94E+01 | 3.13E+01 | 3.13E+01 | 3.13E+01 | 3.13E+01 | 7.24E+01 | 8.70E-02 |
| **Carolina Wren - 1** | **Avian TEQ** | **2.47E+02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.94E+01 | 3.13E+01 | 3.13E+01 | 3.13E+01 | 3.13E+01 | 7.24E+01 | 2.00E-02 |
| **Shrew - 1** | **Mammalian TEQ** | **3.89E+01** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.98E+00 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 8.19E+00 | 1.70E-02 |
| **Deer** | **Mammalian TEQ** | **3.89E+01** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.98E+00 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 8.19E+00 | 5.66E+01 |
| **Weasel** | **Mammalian TEQ** | **3.89E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.98E+00 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 8.19E+00 | 3.00E-01 |
| **Fox - 1** | **Mammalian TEQ** | **3.89E+01** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.98E+00 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 8.19E+00 | 4.50E+00 |
| **Fox - 2** | **Mammalian TEQ** | **3.89E+01** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.98E+00 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 8.19E+00 | 4.50E+00 |

**Table F3-3b**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Lower Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Intake Estimates (kg dw/kg-day) | | Dose From Dietary Components (ng/kg-day) | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values (ng/kg-day) | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/ Detritivores | Riparian Spiders/ Detritivores | Small Mammals | Soil | Soil + Prey | NOAEL TRV | NOAEL HQ |
| **Mourning Dove** | **Avian TEQ** | 1.41E-01 | 1.96E-02 | 2.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.85E+00 | 7.59E+00 | 1.45E+02 | 5E-02 |
| **Blue Jay** | **Avian TEQ** | 1.53E-01 | 2.14E-02 | 2.31E+00 | 5.26E-01 | 0.00E+00 | 5.26E-01 | 0.00E+00 | 0.00E+00 | 5.29E+00 | 8.66E+00 | 1.45E+02 | 6E-02 |
| **Carolina Wren - 1** | **Avian TEQ** | 2.44E-01 | 3.41E-02 | 4.26E-01 | 3.43E+00 | 1.14E+00 | 2.36E+00 | 0.00E+00 | 0.00E+00 | 8.43E+00 | 1.58E+01 | 1.45E+02 | 1E-01 |
| **Shrew - 1** | **Mammalian TEQ** | 1.28E-01 | 3.83E-03 | 4.57E-02 | 1.11E-01 | 1.62E-01 | 1.11E-01 | 0.00E+00 | 0.00E+00 | 1.49E-01 | 5.79E-01 | 2.50E+01 | 2E-02 |
| **Deer** | **Mammalian TEQ** | 1.47E-02 | 2.93E-04 | 4.37E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 5.51E-02 | 2.50E+01 | 2E-03 |
| **Weasel** | **Mammalian TEQ** | 5.94E-02 | 2.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.86E-01 | 9.93E-02 | 5.86E-01 | 2.50E+01 | 2E-02 |
| **Fox - 1** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 1.92E-02 | 0.00E+00 | 5.18E-03 | 0.00E+00 | 0.00E+00 | 2.45E-01 | 4.12E-02 | 3.11E-01 | 2.50E+01 | 1E-02 |
| **Fox - 2** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 5.65E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-01 | 4.12E-02 | 3.42E-01 | 2.50E+01 | 1E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-3c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Lower Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil |
| **Carolina Wren - 2** | **Avian TEQ** | **2.47E+02** | **4.91E+01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Hawk** | **Avian TEQ** | **2.47E+02** | **4.91E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | **3.89E+01** | **1.39E+01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 |
| **Shrew - 2** | **Mammalian TEQ** | **3.89E+01** | **1.39E+01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 |

**Table F3-3c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Lower Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate |
| **Carolina Wren - 2** | **Avian TEQ** | 0.00E+00 | 4.89E+01 | 1.94E+01 | 2.32E+02 | 3.13E+01 | 8.90E+01 | 3.13E+01 | 3.13E+01 | 3.13E+01 | 7.24E+01 | 2.32E+02 | 1.80E+03 | 4.27E+01 | 4.23E+02 | 3.90E+02 | 2.93E+02 | 8.05E+01 | 4.35E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | 5.70E-02 | 4.89E+01 | 1.94E+01 | 2.32E+02 | 3.13E+01 | 8.90E+01 | 3.13E+01 | 3.13E+01 | 3.13E+01 | 7.24E+01 | 2.32E+02 | 1.80E+03 | 4.27E+01 | 4.23E+02 | 3.90E+02 | 2.93E+02 | 8.05E+01 | 4.35E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 5.97E+00 | 2.98E+00 | 3.20E+01 | 3.42E+00 | 2.18E+01 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 8.19E+00 | 3.20E+01 | 2.07E+02 | 6.39E+00 | 6.42E+01 | 3.94E+01 | 3.02E+01 | 1.93E+01 | 8.81E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 3.00E-02 | 5.97E+00 | 2.98E+00 | 3.20E+01 | 3.42E+00 | 2.18E+01 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 8.19E+00 | 3.20E+01 | 2.07E+02 | 6.39E+00 | 6.42E+01 | 3.94E+01 | 3.02E+01 | 1.93E+01 | 8.81E+00 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 |

**Table F3-3c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Lower Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Carolina Wren - 2** | **Avian TEQ** | 1.07E+00 | 0.00E+00 | 0.00E+00 | 1.14E+00 | 0.00E+00 | 3.43E+00 | 0.00E+00 | 2.36E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.43E+00 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.05E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.39E-01 | 0.00E+00 | 1.13E+00 | 2.24E-01 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 3.52E-02 | 0.00E+00 | 9.17E-03 | 0.00E+00 | 9.17E-03 | 9.17E-03 | 0.00E+00 | 1.17E-02 | 0.00E+00 | 0.00E+00 | 2.23E-02 | 3.79E-02 | 0.00E+00 | 0.00E+00 | 1.04E-02 | 7.09E-03 | 9.81E-02 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 0.00E+00 | 6.48E-02 | 0.00E+00 | 1.79E-01 | 0.00E+00 | 7.65E-02 | 7.65E-02 | 0.00E+00 | 5.24E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-02 | 1.13E-02 | 1.49E-01 | 5.33E-02 |

**Table F3-3c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Lower Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Carolina Wren - 2** | **Avian TEQ** | 1.30E+01 | 3.44E+00 | 1.64E+01 | 1.45E+02 | 9E-02 | 2E-02 | 1E-01 |
| **Hawk** | **Avian TEQ** | 6.18E+00 | 1.06E+00 | 7.24E+00 | 1.45E+02 | 4E-02 | 7E-03 | 5E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | 1.72E-01 | 7.76E-02 | 2.50E-01 | 2.50E+01 | 7E-03 | 3E-03 | 1E-02 |
| **Shrew - 2** | **Mammalian TEQ** | 5.98E-01 | 8.93E-02 | 6.88E-01 | 2.50E+01 | 2E-02 | 4E-03 | 3E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-3d**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Lower Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil |
| **Spotted Sandpiper - 1** | **Avian TEQ** | **4.03E+02** | **4.91E+01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 |
| **GBH** | **Avian TEQ** | **4.03E+02** | **4.91E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 |
| **Mink - 1** | **Mammalian TEQ** | **6.32E+01** | **1.39E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | **6.32E+01** | **1.39E+01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | **6.32E+01** | **1.39E+01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 |
| **Raccoon - 2** | **Mammalian TEQ** | **6.32E+01** | **1.39E+01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 |

**Table F3-3d**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Lower Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 9.00E-02 | 4.89E+01 | 1.94E+01 | 2.32E+02 | 3.13E+01 | 8.90E+01 | 3.13E+01 | 3.13E+01 | 3.13E+01 | 7.24E+01 | 2.32E+02 | 1.80E+03 | 4.27E+01 | 4.23E+02 | 3.90E+02 | 2.93E+02 | 8.05E+01 | 4.35E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 |
| **GBH** | **Avian TEQ** | 2.00E-02 | 4.89E+01 | 1.94E+01 | 2.32E+02 | 3.13E+01 | 8.90E+01 | 3.13E+01 | 3.13E+01 | 3.13E+01 | 7.24E+01 | 2.32E+02 | 1.80E+03 | 4.27E+01 | 4.23E+02 | 3.90E+02 | 2.93E+02 | 8.05E+01 | 4.35E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 |
| **Mink - 1** | **Mammalian TEQ** | 0.00E+00 | 5.97E+00 | 2.98E+00 | 3.20E+01 | 3.42E+00 | 2.18E+01 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 8.19E+00 | 3.20E+01 | 2.07E+02 | 6.39E+00 | 6.42E+01 | 3.94E+01 | 3.02E+01 | 1.93E+01 | 8.81E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 0.00E+00 | 5.97E+00 | 2.98E+00 | 3.20E+01 | 3.42E+00 | 2.18E+01 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 8.19E+00 | 3.20E+01 | 2.07E+02 | 6.39E+00 | 6.42E+01 | 3.94E+01 | 3.02E+01 | 1.93E+01 | 8.81E+00 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 5.97E+00 | 2.98E+00 | 3.20E+01 | 3.42E+00 | 2.18E+01 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 8.19E+00 | 3.20E+01 | 2.07E+02 | 6.39E+00 | 6.42E+01 | 3.94E+01 | 3.02E+01 | 1.93E+01 | 8.81E+00 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 9.40E-02 | 5.97E+00 | 2.98E+00 | 3.20E+01 | 3.42E+00 | 2.18E+01 | 3.42E+00 | 3.42E+00 | 3.42E+00 | 8.19E+00 | 3.20E+01 | 2.07E+02 | 6.39E+00 | 6.42E+01 | 3.94E+01 | 3.02E+01 | 1.93E+01 | 8.81E+00 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 |

**Table F3-3d**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Lower Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 2.07E+01 | 2.79E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.46E+00 | 7.87E-01 |
| **GBH** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-01 | 0.00E+00 | 0.00E+00 | 7.53E-02 | 6.99E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.07E-01 | 0.00E+00 | 1.73E-01 |
| **Mink - 1** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-01 | 0.00E+00 | 0.00E+00 | 2.84E-02 | 0.00E+00 | 0.00E+00 | 3.14E-01 | 0.00E+00 | 1.13E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 2.95E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.43E-02 | 0.00E+00 | 0.00E+00 | 1.26E-02 | 0.00E+00 | 0.00E+00 | 1.29E+00 | 0.00E+00 | 1.31E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 3.52E-02 | 0.00E+00 | 9.17E-03 | 0.00E+00 | 9.17E-03 | 9.17E-03 | 0.00E+00 | 1.17E-02 | 0.00E+00 | 0.00E+00 | 2.23E-02 | 3.79E-02 | 0.00E+00 | 0.00E+00 | 1.04E-02 | 7.09E-03 | 1.59E-01 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 2.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.18E-02 | 2.58E-02 | 7.22E-01 | 2.23E-02 | 3.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.84E-02 | 0.00E+00 | 3.51E-02 |

**Table F3-3d**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Lower Assessment Area: Dioxin/Furan TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 9.24E+00 | 2.15E+01 | 3.07E+01 | 1.45E+02 | 6E-02 | 1E-01 | 2E-01 |
| **GBH** | **Avian TEQ** | 1.27E-01 | 7.05E+01 | 7.06E+01 | 1.45E+02 | 9E-04 | 5E-01 | 5E-01 |
| **Mink - 1** | **Mammalian TEQ** | 1.78E-01 | 4.56E-01 | 6.34E-01 | 2.50E+01 | 7E-03 | 2E-02 | 3E-02 |
| **Mink - 2** | **Mammalian TEQ** | 2.43E-02 | 1.31E+00 | 1.34E+00 | 2.50E+01 | 1E-03 | 5E-02 | 5E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | 2.34E-01 | 7.76E-02 | 3.11E-01 | 2.50E+01 | 9E-03 | 3E-03 | 1E-02 |
| **Raccoon - 2** | **Mammalian TEQ** | 4.18E-02 | 1.26E+00 | 1.30E+00 | 2.50E+01 | 2E-03 | 5E-02 | 5E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-3e**
**Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values**
**Lower Assessment Area: Dioxin/Furan TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC | Modeled Fish Tissue Fish EPC | Toxicity Reference Values (ng/kg dw) | | Hazard Quotients (unitless) | |
|---|---|---|---|---|---|---|---|
| | | | (ng/kg dw) | Fish NOAEL (Mean Lipid) | Fish NOAEL (Max Lipid) | Fish (Mean Lipid) | Fish (Max Lipid) |
| **All Fish** | **Fish TEQ** | 1.3E+01 | 7.53E+01 | 2.6E+02 | 5.7E+02 | 3.0E-01 | 1.3E-01 |
| **Forage Fish** | **Fish TEQ** | 1.3E+01 | 1.09E+02 | 2.6E+02 | 5.7E+02 | 4.3E-01 | 1.9E-01 |
| **Bottom Fish** | **Fish TEQ** | 1.3E+01 | 5.91E+01 | 2.6E+02 | 5.7E+02 | 2.3E-01 | 1.0E-01 |
| **Predator Fish** | **Fish TEQ** | 1.3E+01 | 2.05E+01 | 2.6E+02 | 5.7E+02 | 8.0E-02 | 3.6E-02 |

**Notes:**
COPC: constituent of potential concern
EPC: exposure point concentration
NOAEL: no observed adverse effect level
ng/kg dw: nanogram per kilogram dry weight
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent

**Table F3-4a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**
**Upper Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow** | **Avian TEQ** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | **1.20E+03** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1** | **Avian TEQ** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2** | **Avian TEQ** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey** | **Avian TEQ** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table F3-4a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**
**Upper Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate |
| **Tree Swallow** | **Avian TEQ** | 2.63E+00 | 7.56E+00 | 9.86E+01 | 7.56E+00 | 4.27E+01 | 4.31E+00 | 6.68E+01 | 1.11E+02 | 6.45E+01 | 6.82E+01 | 1.98E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 2.63E+00 | 7.56E+00 | 9.86E+01 | 7.56E+00 | 4.27E+01 | 4.31E+00 | 6.68E+01 | 1.11E+02 | 6.45E+01 | 6.82E+01 | 1.98E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 |
| **Kingfisher - 1** | **Avian TEQ** | 2.63E+00 | 7.56E+00 | 9.86E+01 | 7.56E+00 | 4.27E+01 | 4.31E+00 | 6.68E+01 | 1.11E+02 | 6.45E+01 | 6.82E+01 | 1.98E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Kingfisher - 2** | **Avian TEQ** | 2.63E+00 | 7.56E+00 | 9.86E+01 | 7.56E+00 | 4.27E+01 | 4.31E+00 | 6.68E+01 | 1.11E+02 | 6.45E+01 | 6.82E+01 | 1.98E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Osprey** | **Avian TEQ** | 2.63E+00 | 7.56E+00 | 9.86E+01 | 7.56E+00 | 4.27E+01 | 4.31E+00 | 6.68E+01 | 1.11E+02 | 6.45E+01 | 6.82E+01 | 1.98E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | 1.81E+00 | 4.12E+00 | 6.95E+01 | 4.12E+00 | 3.70E+01 | 3.01E+00 | 5.19E+01 | 8.49E+01 | 4.95E+01 | 5.27E+01 | 1.74E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | 1.81E+00 | 4.12E+00 | 6.95E+01 | 4.12E+00 | 3.70E+01 | 3.01E+00 | 5.19E+01 | 8.49E+01 | 4.95E+01 | 5.27E+01 | 1.74E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 |

**Table F3-4a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**
**Upper Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Sediment + Prey | NOAEL TRV | NOAEL HQ |
| **Tree Swallow** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 2.37E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.37E+01 | 1.45E+02 | 2E-01 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 0.00E+00 | 6.73E-01 | 0.00E+00 | 6.73E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.85E+01 | 3.98E+01 | 1.45E+02 | 3E-01 |
| **Kingfisher - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E+01 | 0.00E+00 | 0.00E+00 | 3.78E+00 | 1.39E+01 | 1.45E+02 | 1E-01 |
| **Kingfisher - 2** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 7.73E+00 | 0.00E+00 | 1.56E-01 | 3.78E+00 | 1.18E+01 | 1.45E+02 | 8E-02 |
| **Osprey** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.72E+00 | 1.45E+02 | 3E-02 |
| **Bat** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 1.23E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E+01 | 2.50E+01 | 5E-01 |
| **Otter** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.68E-01 | 6.51E-01 | 5.18E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E+00 | 2.50E+01 | 8E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-4b**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Upper Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (ng/kg) | Percent Diet (%) | | | | | | | Modeled Tissue (ng/kg dry weight) | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Terrestrial Spiders/ Detritivores | Riparian Spiders/ Detritivores | Small Mammals | Body Weight (kg) |
| **Mourning Dove** | **Avian TEQ** | **6.65E+02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 1.23E+00 | 2.06E+01 | 2.06E+01 | 2.06E+01 | 2.06E+01 | 2.14E+01 | 1.20E-01 |
| **Blue Jay** | **Avian TEQ** | **6.65E+02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.23E+00 | 2.06E+01 | 2.06E+01 | 2.06E+01 | 2.06E+01 | 2.14E+01 | 8.70E-02 |
| **Carolina Wren - 1** | **Avian TEQ** | **6.65E+02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 1.23E+00 | 2.06E+01 | 2.06E+01 | 2.06E+01 | 2.06E+01 | 2.14E+01 | 2.00E-02 |
| **Shrew - 1** | **Mammalian TEQ** | **6.62E+02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 8.55E-01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 5.55E+00 | 1.70E-02 |
| **Deer** | **Mammalian TEQ** | **6.62E+02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 8.55E-01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 5.55E+00 | 5.66E+01 |
| **Weasel** | **Mammalian TEQ** | **6.62E+02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 8.55E-01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 5.55E+00 | 3.00E-01 |
| **Fox - 1** | **Mammalian TEQ** | **6.62E+02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 8.55E-01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 5.55E+00 | 4.50E+00 |
| **Fox - 2** | **Mammalian TEQ** | **6.62E+02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 8.55E-01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 5.55E+00 | 4.50E+00 |

**Table F3-4b**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Upper Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Intake Estimates (kg dw/kg-day) | | Dose From Dietary Components (ng/kg-day) | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values (ng/kg-day) | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/ Detritivores | Riparian Spiders/ Detritivores | Small Mammals | Soil | Soil + Prey | NOAEL TRV | NOAEL HQ |
| **Mourning Dove** | **Avian TEQ** | 1.41E-01 | 1.96E-02 | 1.74E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E+01 | 1.32E+01 | 1.45E+02 | 9E-02 |
| **Blue Jay** | **Avian TEQ** | 1.53E-01 | 2.14E-02 | 1.47E-01 | 3.47E-01 | 0.00E+00 | 3.47E-01 | 0.00E+00 | 0.00E+00 | 1.42E+01 | 1.51E+01 | 1.45E+02 | 1E-01 |
| **Carolina Wren - 1** | **Avian TEQ** | 2.44E-01 | 3.41E-02 | 2.70E-02 | 2.26E+00 | 7.54E-01 | 1.56E+00 | 0.00E+00 | 0.00E+00 | 2.27E+01 | 2.73E+01 | 1.45E+02 | 2E-01 |
| **Shrew - 1** | **Mammalian TEQ** | 1.28E-01 | 3.83E-03 | 1.31E-02 | 6.69E-01 | 9.70E-01 | 6.69E-01 | 0.00E+00 | 0.00E+00 | 2.54E+00 | 4.86E+00 | 2.50E+01 | 2E-01 |
| **Deer** | **Mammalian TEQ** | 1.47E-02 | 2.93E-04 | 1.25E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-01 | 2.07E-01 | 2.50E+01 | 8E-03 |
| **Weasel** | **Mammalian TEQ** | 5.94E-02 | 2.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.30E-01 | 1.69E+00 | 2.02E+00 | 2.50E+01 | 8E-02 |
| **Fox - 1** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 5.50E-03 | 0.00E+00 | 3.11E-02 | 0.00E+00 | 0.00E+00 | 1.66E-01 | 7.02E-01 | 9.05E-01 | 2.50E+01 | 4E-02 |
| **Fox - 2** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 1.62E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-01 | 7.02E-01 | 9.03E-01 | 2.50E+01 | 4E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-4c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**
**Upper Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil |
| **Carolina Wren - 2** | **Avian TEQ** | **6.65E+02** | **1.20E+03** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Hawk** | **Avian TEQ** | **6.65E+02** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | **6.62E+02** | **1.20E+03** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 |
| **Shrew - 2** | **Mammalian TEQ** | **6.62E+02** | **1.20E+03** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 |

**Table F3-4c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**
**Upper Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate |
| **Carolina Wren - 2** | **Avian TEQ** | 0.00E+00 | 2.63E+00 | 1.23E+00 | 7.56E+00 | 2.06E+01 | 9.86E+01 | 2.06E+01 | 2.06E+01 | 2.06E+01 | 2.14E+01 | 7.56E+00 | 4.27E+01 | 4.31E+00 | 6.68E+01 | 1.11E+02 | 6.45E+01 | 6.82E+01 | 1.98E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | 5.70E-02 | 2.63E+00 | 1.23E+00 | 7.56E+00 | 2.06E+01 | 9.86E+01 | 2.06E+01 | 2.06E+01 | 2.06E+01 | 2.14E+01 | 7.56E+00 | 4.27E+01 | 4.31E+00 | 6.68E+01 | 1.11E+02 | 6.45E+01 | 6.82E+01 | 1.98E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 1.81E+00 | 8.55E-01 | 4.12E+00 | 2.05E+01 | 6.95E+01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 5.55E+00 | 4.12E+00 | 3.70E+01 | 3.01E+00 | 5.19E+01 | 8.49E+01 | 4.95E+01 | 5.27E+01 | 1.74E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 3.00E-02 | 1.81E+00 | 8.55E-01 | 4.12E+00 | 2.05E+01 | 6.95E+01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 5.55E+00 | 4.12E+00 | 3.70E+01 | 3.01E+00 | 5.19E+01 | 8.49E+01 | 4.95E+01 | 5.27E+01 | 1.74E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 |

**Table F3-4c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**
**Upper Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Carolina Wren - 2** | **Avian TEQ** | 5.77E-02 | 0.00E+00 | 0.00E+00 | 7.54E-01 | 0.00E+00 | 2.26E+00 | 0.00E+00 | 1.56E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.27E+01 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.10E-01 | 0.00E+00 | 3.04E+00 | 5.48E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 1.01E-02 | 0.00E+00 | 5.50E-02 | 0.00E+00 | 5.50E-02 | 5.50E-02 | 0.00E+00 | 7.90E-03 | 0.00E+00 | 0.00E+00 | 1.05E-02 | 3.06E-02 | 0.00E+00 | 0.00E+00 | 2.83E-02 | 1.40E-02 | 1.67E+00 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 0.00E+00 | 1.86E-02 | 0.00E+00 | 1.08E+00 | 0.00E+00 | 4.59E-01 | 4.59E-01 | 0.00E+00 | 3.55E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.74E-02 | 2.22E-02 | 2.54E+00 | 4.60E+00 |

**Table F3-4c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**
**Upper Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Carolina Wren - 2** | **Avian TEQ** | 2.57E+01 | 1.62E+00 | 2.73E+01 | 1.45E+02 | 2E-01 | 1E-02 | 2E-01 |
| **Hawk** | **Avian TEQ** | 4.53E+00 | 6.19E+00 | 1.07E+01 | 1.45E+02 | 3E-02 | 4E-02 | 7E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | 1.85E+00 | 8.34E-02 | 1.94E+00 | 2.50E+01 | 7E-02 | 3E-03 | 8E-02 |
| **Shrew - 2** | **Mammalian TEQ** | 4.59E+00 | 4.69E+00 | 9.28E+00 | 2.50E+01 | 2E-01 | 2E-01 | 4E-01 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-4d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**
**Upper Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1** | **Avian TEQ** | **1.05E+01** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| **GBH** | **Avian TEQ** | **1.05E+01** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| **Mink - 1** | **Mammalian TEQ** | **6.28E+00** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | **6.28E+00** | **1.20E+03** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | **6.28E+00** | **1.20E+03** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | **6.28E+00** | **1.20E+03** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table F3-4d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**
**Upper Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 2.63E+00 | 1.23E+00 | 7.56E+00 | 2.06E+01 | 9.86E+01 | 2.06E+01 | 2.06E+01 | 2.06E+01 | 2.14E+01 | 7.56E+00 | 4.27E+01 | 4.31E+00 | 6.68E+01 | 1.11E+02 | 6.45E+01 | 6.82E+01 | 1.98E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 |
| **GBH** | **Avian TEQ** | 2.63E+00 | 1.23E+00 | 7.56E+00 | 2.06E+01 | 9.86E+01 | 2.06E+01 | 2.06E+01 | 2.06E+01 | 2.14E+01 | 7.56E+00 | 4.27E+01 | 4.31E+00 | 6.68E+01 | 1.11E+02 | 6.45E+01 | 6.82E+01 | 1.98E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 |
| **Mink - 1** | **Mammalian TEQ** | 1.81E+00 | 8.55E-01 | 4.12E+00 | 2.05E+01 | 6.95E+01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 5.55E+00 | 4.12E+00 | 3.70E+01 | 3.01E+00 | 5.19E+01 | 8.49E+01 | 4.95E+01 | 5.27E+01 | 1.74E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 1.81E+00 | 8.55E-01 | 4.12E+00 | 2.05E+01 | 6.95E+01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 5.55E+00 | 4.12E+00 | 3.70E+01 | 3.01E+00 | 5.19E+01 | 8.49E+01 | 4.95E+01 | 5.27E+01 | 1.74E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 1.81E+00 | 8.55E-01 | 4.12E+00 | 2.05E+01 | 6.95E+01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 5.55E+00 | 4.12E+00 | 3.70E+01 | 3.01E+00 | 5.19E+01 | 8.49E+01 | 4.95E+01 | 5.27E+01 | 1.74E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 1.81E+00 | 8.55E-01 | 4.12E+00 | 2.05E+01 | 6.95E+01 | 2.05E+01 | 2.05E+01 | 2.05E+01 | 5.55E+00 | 4.12E+00 | 3.70E+01 | 3.01E+00 | 5.19E+01 | 8.49E+01 | 4.95E+01 | 5.27E+01 | 1.74E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 |

**Table F3-4d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**
**Upper Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 6.73E-01 | 1.84E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-01 | 1.92E+01 |
| **GBH** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.76E-02 | 0.00E+00 | 0.00E+00 | 7.58E-03 | 1.11E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 4.23E+00 |
| **Mink - 1** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-01 | 0.00E+00 | 0.00E+00 | 1.34E-02 | 0.00E+00 | 0.00E+00 | 5.14E-01 | 0.00E+00 | 2.23E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 8.97E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.65E-02 | 0.00E+00 | 0.00E+00 | 5.95E-03 | 0.00E+00 | 0.00E+00 | 2.11E+00 | 0.00E+00 | 2.58E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 1.01E-02 | 0.00E+00 | 5.50E-02 | 0.00E+00 | 5.50E-02 | 5.50E-02 | 0.00E+00 | 7.90E-03 | 0.00E+00 | 0.00E+00 | 1.05E-02 | 3.06E-02 | 0.00E+00 | 0.00E+00 | 2.83E-02 | 1.40E-02 | 1.58E-02 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 8.27E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.83E-02 | 3.32E-03 | 1.29E-01 | 1.05E-02 | 3.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.59E-02 | 0.00E+00 | 3.03E+00 |

**Table F3-4d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**
**Upper Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 2.00E+00 | 1.99E+01 | 2.19E+01 | 1.45E+02 | 1E-02 | 1E-01 | 2E-01 |
| **GBH** | **Avian TEQ** | 3.76E-02 | 1.54E+01 | 1.55E+01 | 1.45E+02 | 3E-04 | 1E-01 | 1E-01 |
| **Mink - 1** | **Mammalian TEQ** | 1.21E-01 | 7.51E-01 | 8.72E-01 | 2.50E+01 | 5E-03 | 3E-02 | 3E-02 |
| **Mink - 2** | **Mammalian TEQ** | 1.65E-02 | 2.14E+00 | 2.16E+00 | 2.50E+01 | 7E-04 | 9E-02 | 9E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | 1.99E-01 | 8.34E-02 | 2.82E-01 | 2.50E+01 | 8E-03 | 3E-03 | 1E-02 |
| **Raccoon - 2** | **Mammalian TEQ** | 2.83E-02 | 3.55E+00 | 3.58E+00 | 2.50E+01 | 1E-03 | 1E-01 | 1E-01 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-4e**
**Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values**
**Upper Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC | Modeled Fish Tissue Fish EPC | Toxicity Reference Values (ng/kg dw) | | Hazard Quotients (unitless) | |
|---|---|---|---|---|---|---|---|
| | | | (ng/kg dw) | Fish NOAEL (Mean Lipid) | Fish NOAEL (Max Lipid) | Fish (Mean Lipid) | Fish (Max Lipid) |
| **All Fish** | **Fish TEQ** | 6.0E+01 | 8.45E+00 | 2.6E+02 | 5.7E+02 | 3.3E-02 | 1.5E-02 |
| **Forage Fish** | **Fish TEQ** | 6.0E+01 | 8.07E+00 | 2.6E+02 | 5.7E+02 | 3.2E-02 | 1.4E-02 |
| **Bottom Fish** | **Fish TEQ** | 6.0E+01 | 9.72E+00 | 2.6E+02 | 5.7E+02 | 3.8E-02 | 1.7E-02 |
| **Predator Fish** | **Fish TEQ** | 6.0E+01 | 1.38E+01 | 2.6E+02 | 5.7E+02 | 5.4E-02 | 2.4E-02 |

**Notes:**
COPC: constituent of potential concern
EPC: exposure point concentration
NOAEL: no observed adverse effect level
ng/kg dw: nanogram per kilogram dry weight
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent

**Table F3-5a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Middle Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow** | **Avian TEQ** | **7.28E+00** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | **7.28E+00** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1** | **Avian TEQ** | **7.28E+00** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2** | **Avian TEQ** | **7.28E+00** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey** | **Avian TEQ** | **7.28E+00** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | **4.83E+00** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | **4.83E+00** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table F3-5a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Middle Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate |
| **Tree Swallow** | **Avian TEQ** | 3.42E+00 | 1.06E+01 | 1.32E+02 | 1.06E+01 | 5.78E+01 | 5.75E+00 | 9.04E+01 | 1.51E+02 | 8.74E+01 | 9.29E+01 | 2.69E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 3.42E+00 | 1.06E+01 | 1.32E+02 | 1.06E+01 | 5.78E+01 | 5.75E+00 | 9.04E+01 | 1.51E+02 | 8.74E+01 | 9.29E+01 | 2.69E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 |
| **Kingfisher - 1** | **Avian TEQ** | 3.42E+00 | 1.06E+01 | 1.32E+02 | 1.06E+01 | 5.78E+01 | 5.75E+00 | 9.04E+01 | 1.51E+02 | 8.74E+01 | 9.29E+01 | 2.69E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Kingfisher - 2** | **Avian TEQ** | 3.42E+00 | 1.06E+01 | 1.32E+02 | 1.06E+01 | 5.78E+01 | 5.75E+00 | 9.04E+01 | 1.51E+02 | 8.74E+01 | 9.29E+01 | 2.69E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Osprey** | **Avian TEQ** | 3.42E+00 | 1.06E+01 | 1.32E+02 | 1.06E+01 | 5.78E+01 | 5.75E+00 | 9.04E+01 | 1.51E+02 | 8.74E+01 | 9.29E+01 | 2.69E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | 2.41E+00 | 5.69E+00 | 9.41E+01 | 5.69E+00 | 5.03E+01 | 4.06E+00 | 7.04E+01 | 1.16E+02 | 6.73E+01 | 7.18E+01 | 2.36E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | 2.41E+00 | 5.69E+00 | 9.41E+01 | 5.69E+00 | 5.03E+01 | 4.06E+00 | 7.04E+01 | 1.16E+02 | 6.73E+01 | 7.18E+01 | 2.36E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 |

**Table F3-5a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Middle Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Sediment + Prey | NOAEL TRV | NOAEL HQ |
| **Tree Swallow** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 3.18E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.18E+01 | 1.45E+02 | 2E-01 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 0.00E+00 | 9.40E-01 | 0.00E+00 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.33E-01 | 2.11E+00 | 1.45E+02 | 1E-02 |
| **Kingfisher - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E+01 | 0.00E+00 | 0.00E+00 | 2.29E-02 | 1.38E+01 | 1.45E+02 | 1E-01 |
| **Kingfisher - 2** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.72E-01 | 0.00E+00 | 0.00E+00 | 1.05E+01 | 0.00E+00 | 2.12E-01 | 2.29E-02 | 1.09E+01 | 1.45E+02 | 7E-02 |
| **Osprey** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.39E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.39E+00 | 1.45E+02 | 4E-02 |
| **Bat** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 1.67E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E+01 | 2.50E+01 | 7E-01 |
| **Otter** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.18E+00 | 8.87E-01 | 7.04E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.77E+00 | 2.50E+01 | 1E-01 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-5b**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Middle Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (ng/kg) | Percent Diet (%) | | | | | | | Modeled Tissue (ng/kg dry weight) | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Body Weight (kg) |
| **Mourning Dove** | **Avian TEQ** | **5.50E+02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 9.71E-01 | 1.71E+01 | 1.71E+01 | 1.71E+01 | 1.71E+01 | 1.84E+01 | 1.20E-01 |
| **Blue Jay** | **Avian TEQ** | **5.50E+02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 9.71E-01 | 1.71E+01 | 1.71E+01 | 1.71E+01 | 1.71E+01 | 1.84E+01 | 8.70E-02 |
| **Carolina Wren - 1** | **Avian TEQ** | **5.50E+02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 9.71E-01 | 1.71E+01 | 1.71E+01 | 1.71E+01 | 1.71E+01 | 1.84E+01 | 2.00E-02 |
| **Shrew - 1** | **Mammalian TEQ** | **5.79E+00** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 6.79E-01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 4.49E+00 | 1.70E-02 |
| **Deer** | **Mammalian TEQ** | **5.79E+00** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 6.79E-01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 4.49E+00 | 5.66E+01 |
| **Weasel** | **Mammalian TEQ** | **5.79E+00** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 6.79E-01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 4.49E+00 | 3.00E-01 |
| **Fox - 1** | **Mammalian TEQ** | **5.79E+00** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 6.79E-01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 4.49E+00 | 4.50E+00 |
| **Fox - 2** | **Mammalian TEQ** | **5.79E+00** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 6.79E-01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 4.49E+00 | 4.50E+00 |

**Table F3-5b**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Middle Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Intake Estimates (kg dw/kg-day) | | Dose From Dietary Components (ng/kg-day) | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values (ng/kg-day) | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Soil | Soil + Prey | NOAEL TRV | NOAEL HQ |
| **Mourning Dove** | **Avian TEQ** | 1.41E-01 | 1.96E-02 | 1.37E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E+01 | 1.09E+01 | 1.45E+02 | 8E-02 |
| **Blue Jay** | **Avian TEQ** | 1.53E-01 | 2.14E-02 | 1.16E-01 | 2.87E-01 | 0.00E+00 | 2.87E-01 | 0.00E+00 | 0.00E+00 | 1.18E+01 | 1.25E+01 | 1.45E+02 | 9E-02 |
| **Carolina Wren - 1** | **Avian TEQ** | 2.44E-01 | 3.41E-02 | 2.13E-02 | 1.87E+00 | 6.24E-01 | 1.29E+00 | 0.00E+00 | 0.00E+00 | 1.88E+01 | 2.26E+01 | 1.45E+02 | 2E-01 |
| **Shrew - 1** | **Mammalian TEQ** | 1.28E-01 | 3.83E-03 | 1.04E-02 | 5.87E-03 | 8.51E-03 | 5.87E-03 | 0.00E+00 | 0.00E+00 | 2.22E-02 | 5.29E-02 | 2.50E+01 | 2E-03 |
| **Deer** | **Mammalian TEQ** | 1.47E-02 | 2.93E-04 | 9.95E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E-03 | 1.16E-02 | 2.50E+01 | 5E-04 |
| **Weasel** | **Mammalian TEQ** | 5.94E-02 | 2.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.66E-01 | 1.48E-02 | 2.81E-01 | 2.50E+01 | 1E-02 |
| **Fox - 1** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 4.37E-03 | 0.00E+00 | 2.73E-04 | 0.00E+00 | 0.00E+00 | 1.34E-01 | 6.14E-03 | 1.45E-01 | 2.50E+01 | 6E-03 |
| **Fox - 2** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 1.29E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-01 | 6.14E-03 | 1.69E-01 | 2.50E+01 | 7E-03 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-5c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Middle Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil |
| **Carolina Wren - 2** | **Avian TEQ** | **5.50E+02** | **7.28E+00** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Hawk** | **Avian TEQ** | **5.50E+02** | **7.28E+00** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | **5.79E+00** | **4.83E+00** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 |
| **Shrew - 2** | **Mammalian TEQ** | **5.79E+00** | **4.83E+00** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 |

**Table F3-5c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Middle Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) |
| **Carolina Wren - 2** | **Avian TEQ** | 0.00E+00 | 3.42E+00 | 9.71E-01 | 1.06E+01 | 1.71E+01 | 1.32E+02 | 1.71E+01 | 1.71E+01 | 1.71E+01 | 1.84E+01 | 1.06E+01 | 5.78E+01 | 5.75E+00 | 9.04E+01 | 1.51E+02 | 8.74E+01 | 9.29E+01 | 2.69E+01 | 2.00E-02 |
| **Hawk** | **Avian TEQ** | 5.70E-02 | 3.42E+00 | 9.71E-01 | 1.06E+01 | 1.71E+01 | 1.32E+02 | 1.71E+01 | 1.71E+01 | 1.71E+01 | 1.84E+01 | 1.06E+01 | 5.78E+01 | 5.75E+00 | 9.04E+01 | 1.51E+02 | 8.74E+01 | 9.29E+01 | 2.69E+01 | 1.10E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 2.41E+00 | 6.79E-01 | 5.69E+00 | 1.80E-01 | 9.41E+01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 4.49E+00 | 5.69E+00 | 5.03E+01 | 4.06E+00 | 7.04E+01 | 1.16E+02 | 6.73E+01 | 7.18E+01 | 2.36E+01 | 5.60E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 3.00E-02 | 2.41E+00 | 6.79E-01 | 5.69E+00 | 1.80E-01 | 9.41E+01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 4.49E+00 | 5.69E+00 | 5.03E+01 | 4.06E+00 | 7.04E+01 | 1.16E+02 | 6.73E+01 | 7.18E+01 | 2.36E+01 | 1.70E-02 |

**Table F3-5c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Middle Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Intake Estimates (kg dw/kg-day) | | | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| Carolina Wren - 2 | Avian TEQ | 2.44E-01 | 3.41E-02 | 0.00E+00 | 7.49E-02 | 0.00E+00 | 0.00E+00 | 6.24E-01 | 0.00E+00 | 1.87E+00 | 0.00E+00 | 1.29E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.88E+01 | 0.00E+00 |
| Hawk | Avian TEQ | 8.02E-02 | 4.57E-03 | 4.57E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.68E-01 | 0.00E+00 | 2.51E+00 | 3.33E-02 |
| Raccoon - 1 | Mammalian TEQ | 2.68E-02 | 2.52E-03 | 0.00E+00 | 0.00E+00 | 8.01E-03 | 0.00E+00 | 4.83E-04 | 0.00E+00 | 4.83E-04 | 4.83E-04 | 0.00E+00 | 6.38E-03 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 4.16E-02 | 0.00E+00 | 0.00E+00 | 3.85E-02 | 1.90E-02 | 1.46E-02 | 0.00E+00 |
| Shrew - 2 | Mammalian TEQ | 1.28E-01 | 3.83E-03 | 3.83E-03 | 0.00E+00 | 1.48E-02 | 0.00E+00 | 9.43E-03 | 0.00E+00 | 4.03E-03 | 4.03E-03 | 0.00E+00 | 2.87E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-02 | 3.02E-02 | 2.22E-02 | 1.85E-02 |

**Table F3-5c**

**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Middle Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Carolina Wren - 2** | **Avian TEQ** | 2.13E+01 | 1.36E+00 | 2.26E+01 | 1.45E+02 | 1E-01 | 9E-03 | 2E-01 |
| **Hawk** | **Avian TEQ** | 3.80E+00 | 1.00E+00 | 4.80E+00 | 1.45E+02 | 3E-02 | 7E-03 | 3E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | 3.04E-02 | 1.13E-01 | 1.44E-01 | 2.50E+01 | 1E-03 | 5E-03 | 6E-03 |
| **Shrew - 2** | **Mammalian TEQ** | 8.31E-02 | 1.40E-01 | 2.24E-01 | 2.50E+01 | 3E-03 | 6E-03 | 9E-03 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-5d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Middle Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1** | **Avian TEQ** | **9.56E+02** | **7.28E+00** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| **GBH** | **Avian TEQ** | **9.56E+02** | **7.28E+00** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| **Mink - 1** | **Mammalian TEQ** | **5.60E+00** | **4.83E+00** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | **5.60E+00** | **4.83E+00** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | **5.60E+00** | **4.83E+00** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | **5.60E+00** | **4.83E+00** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table F3-5d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Middle Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 3.42E+00 | 9.71E-01 | 1.06E+01 | 1.71E+01 | 1.32E+02 | 1.71E+01 | 1.71E+01 | 1.71E+01 | 1.84E+01 | 1.06E+01 | 5.78E+01 | 5.75E+00 | 9.04E+01 | 1.51E+02 | 8.74E+01 | 9.29E+01 | 2.69E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 |
| **GBH** | **Avian TEQ** | 3.42E+00 | 9.71E-01 | 1.06E+01 | 1.71E+01 | 1.32E+02 | 1.71E+01 | 1.71E+01 | 1.71E+01 | 1.84E+01 | 1.06E+01 | 5.78E+01 | 5.75E+00 | 9.04E+01 | 1.51E+02 | 8.74E+01 | 9.29E+01 | 2.69E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 |
| **Mink - 1** | **Mammalian TEQ** | 2.41E+00 | 6.79E-01 | 5.69E+00 | 1.80E-01 | 9.41E+01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 4.49E+00 | 5.69E+00 | 5.03E+01 | 4.06E+00 | 7.04E+01 | 1.16E+02 | 6.73E+01 | 7.18E+01 | 2.36E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 2.41E+00 | 6.79E-01 | 5.69E+00 | 1.80E-01 | 9.41E+01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 4.49E+00 | 5.69E+00 | 5.03E+01 | 4.06E+00 | 7.04E+01 | 1.16E+02 | 6.73E+01 | 7.18E+01 | 2.36E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 2.41E+00 | 6.79E-01 | 5.69E+00 | 1.80E-01 | 9.41E+01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 4.49E+00 | 5.69E+00 | 5.03E+01 | 4.06E+00 | 7.04E+01 | 1.16E+02 | 6.73E+01 | 7.18E+01 | 2.36E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 2.41E+00 | 6.79E-01 | 5.69E+00 | 1.80E-01 | 9.41E+01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 4.49E+00 | 5.69E+00 | 5.03E+01 | 4.06E+00 | 7.04E+01 | 1.16E+02 | 6.73E+01 | 7.18E+01 | 2.36E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 |

**Table F3-5d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Middle Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 9.40E-01 | 1.52E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.53E+01 | 1.17E-01 |
| **GBH** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.25E-02 | 0.00E+00 | 0.00E+00 | 1.01E-02 | 1.50E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-01 | 0.00E+00 | 2.56E-02 |
| **Mink - 1** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.77E-02 | 0.00E+00 | 0.00E+00 | 1.81E-02 | 0.00E+00 | 0.00E+00 | 6.99E-01 | 0.00E+00 | 3.04E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 1.19E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 0.00E+00 | 8.03E-03 | 0.00E+00 | 0.00E+00 | 2.86E+00 | 0.00E+00 | 3.50E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 8.01E-03 | 0.00E+00 | 4.83E-04 | 0.00E+00 | 4.83E-04 | 4.83E-04 | 0.00E+00 | 6.38E-03 | 0.00E+00 | 0.00E+00 | 1.41E-02 | 4.16E-02 | 0.00E+00 | 0.00E+00 | 3.85E-02 | 1.90E-02 | 1.41E-02 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 1.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-02 | 4.58E-03 | 1.75E-01 | 1.41E-02 | 4.35E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.60E-02 | 0.00E+00 | 1.22E-02 |

**Table F3-5d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Middle Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 1.68E+01 | 1.06E+00 | 1.79E+01 | 1.45E+02 | 1E-01 | 7E-03 | 1E-01 |
| **GBH** | **Avian TEQ** | 3.25E-02 | 1.52E+01 | 1.52E+01 | 1.45E+02 | 2E-04 | 1E-01 | 1E-01 |
| **Mink - 1** | **Mammalian TEQ** | 9.77E-02 | 1.02E+00 | 1.12E+00 | 2.50E+01 | 4E-03 | 4E-02 | 4E-02 |
| **Mink - 2** | **Mammalian TEQ** | 1.33E-02 | 2.91E+00 | 2.92E+00 | 2.50E+01 | 5E-04 | 1E-01 | 1E-01 |
| **Raccoon - 1** | **Mammalian TEQ** | 3.00E-02 | 1.13E-01 | 1.43E-01 | 2.50E+01 | 1E-03 | 5E-03 | 6E-03 |
| **Raccoon - 2** | **Mammalian TEQ** | 2.29E-02 | 7.28E-01 | 7.51E-01 | 2.50E+01 | 9E-04 | 3E-02 | 3E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-5e**
**Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values**
**Middle Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC | Modeled Fish Tissue Fish EPC | Toxicity Reference Values (ng/kg dw) | | Hazard Quotients (unitless) | |
|---|---|---|---|---|---|---|---|
| | | | (ng/kg dw) | Fish NOAEL (Mean Lipid) | Fish NOAEL (Max Lipid) | Fish (Mean Lipid) | Fish (Max Lipid) |
| **All Fish** | **Fish TEQ** | 8.1E-01 | 8.45E+00 | 2.6E+02 | 5.7E+02 | 3.3E-02 | 1.5E-02 |
| **Forage Fish** | **Fish TEQ** | 8.1E-01 | 8.07E+00 | 2.6E+02 | 5.7E+02 | 3.2E-02 | 1.4E-02 |
| **Bottom Fish** | **Fish TEQ** | 8.1E-01 | 9.72E+00 | 2.6E+02 | 5.7E+02 | 3.8E-02 | 1.7E-02 |
| **Predator Fish** | **Fish TEQ** | 8.1E-01 | 1.38E+01 | 2.6E+02 | 5.7E+02 | 5.4E-02 | 2.4E-02 |

**Notes:**
COPC: constituent of potential concern
EPC: exposure point concentration
NOAEL: no observed adverse effect level
ng/kg dw: nanogram per kilogram dry weight
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent

**Table F3-6a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Lower Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow** | **Avian TEQ** | **6.84E+00** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | **6.84E+00** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1** | **Avian TEQ** | **6.84E+00** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2** | **Avian TEQ** | **6.84E+00** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey** | **Avian TEQ** | **6.84E+00** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | **4.59E+00** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | **4.59E+00** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table F3-6a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Lower Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate |
| **Tree Swallow** | **Avian TEQ** | 3.25E+00 | 9.74E+00 | 1.25E+02 | 9.74E+00 | 5.43E+01 | 5.42E+00 | 8.48E+01 | 1.42E+02 | 8.19E+01 | 8.69E+01 | 2.52E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 3.25E+00 | 9.74E+00 | 1.25E+02 | 9.74E+00 | 5.43E+01 | 5.42E+00 | 8.48E+01 | 1.42E+02 | 8.19E+01 | 8.69E+01 | 2.52E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 |
| **Kingfisher - 1** | **Avian TEQ** | 3.25E+00 | 9.74E+00 | 1.25E+02 | 9.74E+00 | 5.43E+01 | 5.42E+00 | 8.48E+01 | 1.42E+02 | 8.19E+01 | 8.69E+01 | 2.52E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Kingfisher - 2** | **Avian TEQ** | 3.25E+00 | 9.74E+00 | 1.25E+02 | 9.74E+00 | 5.43E+01 | 5.42E+00 | 8.48E+01 | 1.42E+02 | 8.19E+01 | 8.69E+01 | 2.52E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Osprey** | **Avian TEQ** | 3.25E+00 | 9.74E+00 | 1.25E+02 | 9.74E+00 | 5.43E+01 | 5.42E+00 | 8.48E+01 | 1.42E+02 | 8.19E+01 | 8.69E+01 | 2.52E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | 2.31E+00 | 5.34E+00 | 8.95E+01 | 5.34E+00 | 4.79E+01 | 3.86E+00 | 6.70E+01 | 1.10E+02 | 6.40E+01 | 6.82E+01 | 2.25E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | 2.31E+00 | 5.34E+00 | 8.95E+01 | 5.34E+00 | 4.79E+01 | 3.86E+00 | 6.70E+01 | 1.10E+02 | 6.40E+01 | 6.82E+01 | 2.25E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 |

**Table F3-6a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Lower Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Sediment + Prey | NOAEL TRV | NOAEL HQ |
| **Tree Swallow** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 2.99E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E+01 | 1.45E+02 | 2E-01 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 0.00E+00 | 8.67E-01 | 0.00E+00 | 8.67E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-01 | 1.95E+00 | 1.45E+02 | 1E-02 |
| **Kingfisher - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E+01 | 0.00E+00 | 0.00E+00 | 2.16E-02 | 1.29E+01 | 1.45E+02 | 9E-02 |
| **Kingfisher - 2** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E-01 | 0.00E+00 | 0.00E+00 | 9.81E+00 | 0.00E+00 | 1.99E-01 | 2.16E-02 | 1.02E+01 | 1.45E+02 | 7E-02 |
| **Osprey** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E+00 | 1.45E+02 | 4E-02 |
| **Bat** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 1.58E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E+01 | 2.50E+01 | 6E-01 |
| **Otter** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E+00 | 8.42E-01 | 6.69E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E+00 | 2.50E+01 | 1E-01 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-6b**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Lower Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (ng/kg) | Percent Diet (%) | | | | | | | Modeled Tissue (ng/kg dry weight) | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Terrestrial Spiders/ Detritivores | Riparian Spiders/ Detritivores | Small Mammals | Body Weight (kg) |
| **Mourning Dove** | **Avian TEQ** | **4.09E+03** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 7.36E-01 | 1.97E+02 | 1.97E+02 | 1.97E+02 | 1.97E+02 | 1.85E+01 | 1.20E-01 |
| **Blue Jay** | **Avian TEQ** | **4.09E+03** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 7.36E-01 | 1.97E+02 | 1.97E+02 | 1.97E+02 | 1.97E+02 | 1.85E+01 | 8.70E-02 |
| **Carolina Wren - 1** | **Avian TEQ** | **4.09E+03** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 7.36E-01 | 1.97E+02 | 1.97E+02 | 1.97E+02 | 1.97E+02 | 1.85E+01 | 2.00E-02 |
| **Shrew - 1** | **Mammalian TEQ** | **1.28E+03** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 4.98E-01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 3.41E+00 | 1.70E-02 |
| **Deer** | **Mammalian TEQ** | **1.28E+03** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 4.98E-01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 3.41E+00 | 5.66E+01 |
| **Weasel** | **Mammalian TEQ** | **1.28E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 4.98E-01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 3.41E+00 | 3.00E-01 |
| **Fox - 1** | **Mammalian TEQ** | **1.28E+03** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 4.98E-01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 3.41E+00 | 4.50E+00 |
| **Fox - 2** | **Mammalian TEQ** | **1.28E+03** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 4.98E-01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 3.41E+00 | 4.50E+00 |

**Table F3-6b**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Lower Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Intake Estimates (kg dw/kg-day) | | Dose From Dietary Components (ng/kg-day) | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values (ng/kg-day) | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/ Detritivores | Riparian Spiders/ Detritivores | Small Mammals | Soil | Soil + Prey | NOAEL TRV | NOAEL HQ |
| **Mourning Dove** | **Avian TEQ** | 1.41E-01 | 1.96E-02 | 1.04E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.03E+01 | 8.04E+01 | 1.45E+02 | 6E-01 |
| **Blue Jay** | **Avian TEQ** | 1.53E-01 | 2.14E-02 | 8.78E-02 | 3.32E+00 | 0.00E+00 | 3.32E+00 | 0.00E+00 | 0.00E+00 | 8.76E+01 | 9.44E+01 | 1.45E+02 | 7E-01 |
| **Carolina Wren - 1** | **Avian TEQ** | 2.44E-01 | 3.41E-02 | 1.61E-02 | 2.16E+01 | 7.21E+00 | 1.49E+01 | 0.00E+00 | 0.00E+00 | 1.40E+02 | 1.83E+02 | 1.45E+02 | **1E+00** |
| **Shrew - 1** | **Mammalian TEQ** | 1.28E-01 | 3.83E-03 | 7.64E-03 | 2.88E+00 | 4.17E+00 | 2.88E+00 | 0.00E+00 | 0.00E+00 | 4.90E+00 | 1.48E+01 | 2.50E+01 | 6E-01 |
| **Deer** | **Mammalian TEQ** | 1.47E-02 | 2.93E-04 | 7.30E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.75E-01 | 3.82E-01 | 2.50E+01 | 2E-02 |
| **Weasel** | **Mammalian TEQ** | 5.94E-02 | 2.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-01 | 3.26E+00 | 3.47E+00 | 2.50E+01 | 1E-01 |
| **Fox - 1** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 3.21E-03 | 0.00E+00 | 1.34E-01 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 1.36E+00 | 1.59E+00 | 2.50E+01 | 6E-02 |
| **Fox - 2** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 9.43E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-01 | 1.36E+00 | 1.48E+00 | 2.50E+01 | 6E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-6c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Lower Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil |
| **Carolina Wren - 2** | **Avian TEQ** | **4.09E+03** | **6.84E+00** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Hawk** | **Avian TEQ** | **4.09E+03** | **6.84E+00** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | **1.28E+03** | **4.59E+00** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 |
| **Shrew - 2** | **Mammalian TEQ** | **1.28E+03** | **4.59E+00** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 |

**Table F3-6c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Lower Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate |
| **Carolina Wren - 2** | **Avian TEQ** | 0.00E+00 | 3.25E+00 | 7.36E-01 | 9.74E+00 | 1.97E+02 | 1.25E+02 | 1.97E+02 | 1.97E+02 | 1.97E+02 | 1.85E+01 | 9.74E+00 | 5.43E+01 | 5.42E+00 | 8.48E+01 | 1.42E+02 | 8.19E+01 | 8.69E+01 | 2.52E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | 5.70E-02 | 3.25E+00 | 7.36E-01 | 9.74E+00 | 1.97E+02 | 1.25E+02 | 1.97E+02 | 1.97E+02 | 1.97E+02 | 1.85E+01 | 9.74E+00 | 5.43E+01 | 5.42E+00 | 8.48E+01 | 1.42E+02 | 8.19E+01 | 8.69E+01 | 2.52E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 2.31E+00 | 4.98E-01 | 5.34E+00 | 8.83E+01 | 8.95E+01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 3.41E+00 | 5.34E+00 | 4.79E+01 | 3.86E+00 | 6.70E+01 | 1.10E+02 | 6.40E+01 | 6.82E+01 | 2.25E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 3.00E-02 | 2.31E+00 | 4.98E-01 | 5.34E+00 | 8.83E+01 | 8.95E+01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 3.41E+00 | 5.34E+00 | 4.79E+01 | 3.86E+00 | 6.70E+01 | 1.10E+02 | 6.40E+01 | 6.82E+01 | 2.25E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 |

**Table F3-6c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Lower Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Carolina Wren - 2** | **Avian TEQ** | 7.12E-02 | 0.00E+00 | 0.00E+00 | 7.21E+00 | 0.00E+00 | 2.16E+01 | 0.00E+00 | 1.49E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E+02 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.05E-01 | 0.00E+00 | 1.87E+01 | 3.13E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 5.88E-03 | 0.00E+00 | 2.37E-01 | 0.00E+00 | 2.37E-01 | 2.37E-01 | 0.00E+00 | 4.84E-03 | 0.00E+00 | 0.00E+00 | 1.35E-02 | 3.95E-02 | 0.00E+00 | 0.00E+00 | 3.66E-02 | 1.81E-02 | 3.23E+00 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 0.00E+00 | 1.08E-02 | 0.00E+00 | 4.63E+00 | 0.00E+00 | 1.97E+00 | 1.97E+00 | 0.00E+00 | 2.18E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-02 | 2.87E-02 | 4.90E+00 | 1.76E-02 |

**Table F3-6c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**
**Lower Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

**Table F3-6c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**
**Lower Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Carolina Wren - 2** | **Avian TEQ** | 1.69E+02 | 1.50E+01 | 1.83E+02 | 1.45E+02 | **1E+00** | 1E-01 | **1E+00** |
| **Hawk** | **Avian TEQ** | 2.00E+01 | 9.37E-01 | 2.09E+01 | 1.45E+02 | 1E-01 | 6E-03 | 1E-01 |
| **Raccoon - 1** | **Mammalian TEQ** | 3.95E+00 | 1.08E-01 | 4.05E+00 | 2.50E+01 | 2E-01 | 4E-03 | 2E-01 |
| **Shrew - 2** | **Mammalian TEQ** | 1.35E+01 | 1.34E-01 | 1.36E+01 | 2.50E+01 | 5E-01 | 5E-03 | 5E-01 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-6d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Lower Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians |
| **Spotted Sandpiper - 1** | **Avian TEQ** | **8.03E+03** | **6.84E+00** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **GBH** | **Avian TEQ** | **8.03E+03** | **6.84E+00** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 |
| **Mink - 1** | **Mammalian TEQ** | **2.46E+03** | **4.59E+00** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 |
| **Mink - 2** | **Mammalian TEQ** | **2.46E+03** | **4.59E+00** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | **2.46E+03** | **4.59E+00** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 |
| **Raccoon - 2** | **Mammalian TEQ** | **2.46E+03** | **4.59E+00** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 |

**Table F3-6d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Lower Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Soil | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 9.00E-02 | 9.00E-02 | 3.25E+00 | 7.36E-01 | 9.74E+00 | 1.97E+02 | 1.25E+02 | 1.97E+02 | 1.97E+02 | 1.97E+02 | 1.85E+01 | 9.74E+00 | 5.43E+01 | 5.42E+00 | 8.48E+01 | 1.42E+02 | 8.19E+01 | 8.69E+01 | 2.52E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 |
| **GBH** | **Avian TEQ** | 0.00E+00 | 2.00E-02 | 3.25E+00 | 7.36E-01 | 9.74E+00 | 1.97E+02 | 1.25E+02 | 1.97E+02 | 1.97E+02 | 1.97E+02 | 1.85E+01 | 9.74E+00 | 5.43E+01 | 5.42E+00 | 8.48E+01 | 1.42E+02 | 8.19E+01 | 8.69E+01 | 2.52E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 |
| **Mink - 1** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 2.31E+00 | 4.98E-01 | 5.34E+00 | 8.83E+01 | 8.95E+01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 3.41E+00 | 5.34E+00 | 4.79E+01 | 3.86E+00 | 6.70E+01 | 1.10E+02 | 6.40E+01 | 6.82E+01 | 2.25E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 2.31E+00 | 4.98E-01 | 5.34E+00 | 8.83E+01 | 8.95E+01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 3.41E+00 | 5.34E+00 | 4.79E+01 | 3.86E+00 | 6.70E+01 | 1.10E+02 | 6.40E+01 | 6.82E+01 | 2.25E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 9.40E-02 | 0.00E+00 | 2.31E+00 | 4.98E-01 | 5.34E+00 | 8.83E+01 | 8.95E+01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 3.41E+00 | 5.34E+00 | 4.79E+01 | 3.86E+00 | 6.70E+01 | 1.10E+02 | 6.40E+01 | 6.82E+01 | 2.25E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 0.00E+00 | 9.40E-02 | 2.31E+00 | 4.98E-01 | 5.34E+00 | 8.83E+01 | 8.95E+01 | 8.83E+01 | 8.83E+01 | 8.83E+01 | 3.41E+00 | 5.34E+00 | 4.79E+01 | 3.86E+00 | 6.70E+01 | 1.10E+02 | 6.40E+01 | 6.82E+01 | 2.25E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 |

**Table F3-6d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Lower Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 8.67E-01 | 1.76E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E+02 | 1.10E-01 |
| **GBH** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.25E-02 | 0.00E+00 | 0.00E+00 | 9.54E-03 | 1.40E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-01 | 0.00E+00 | 2.41E-02 |
| **Mink - 1** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.42E-02 | 0.00E+00 | 0.00E+00 | 1.72E-02 | 0.00E+00 | 0.00E+00 | 6.64E-01 | 0.00E+00 | 2.89E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 1.14E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-02 | 0.00E+00 | 0.00E+00 | 7.64E-03 | 0.00E+00 | 0.00E+00 | 2.72E+00 | 0.00E+00 | 3.33E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 5.88E-03 | 0.00E+00 | 2.37E-01 | 0.00E+00 | 2.37E-01 | 2.37E-01 | 0.00E+00 | 4.84E-03 | 0.00E+00 | 0.00E+00 | 1.35E-02 | 3.95E-02 | 0.00E+00 | 0.00E+00 | 3.66E-02 | 1.81E-02 | 6.21E+00 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 1.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-02 | 4.30E-03 | 1.67E-01 | 1.35E-02 | 4.13E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.23E-02 | 0.00E+00 | 1.16E-02 |

**Table F3-6d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Lower Assessment Area: Dioxin-Like PCB TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 1.46E+02 | 9.77E-01 | 1.47E+02 | 1.45E+02 | 1E+00 | 7E-03 | 1E+00 |
| **GBH** | **Avian TEQ** | 3.25E-02 | 1.42E+01 | 1.43E+01 | 1.45E+02 | 2E-04 | 1E-01 | 1E-01 |
| **Mink - 1** | **Mammalian TEQ** | 7.42E-02 | 9.70E-01 | 1.04E+00 | 2.50E+01 | 3E-03 | 4E-02 | 4E-02 |
| **Mink - 2** | **Mammalian TEQ** | 1.01E-02 | 2.76E+00 | 2.77E+00 | 2.50E+01 | 4E-04 | 1E-01 | 1E-01 |
| **Raccoon - 1** | **Mammalian TEQ** | 6.93E+00 | 1.08E-01 | 7.04E+00 | 2.50E+01 | 3E-01 | 4E-03 | 3E-01 |
| **Raccoon - 2** | **Mammalian TEQ** | 1.74E-02 | 6.92E-01 | 7.10E-01 | 2.50E+01 | 7E-04 | 3E-02 | 3E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-6e**
**Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values**
**Lower Assessment Area: Dioxin-Like PCB TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC | Modeled Fish Tissue Fish EPC | Toxicity Reference Values (ng/kg dw) | | Hazard Quotients (unitless) | |
|---|---|---|---|---|---|---|---|
| | | | (ng/kg dw) | Fish NOAEL (Mean Lipid) | Fish NOAEL (Max Lipid) | Fish (Mean Lipid) | Fish (Max Lipid) |
| **All Fish** | **Fish TEQ** | 7.7E-01 | 8.45E+00 | 2.6E+02 | 5.7E+02 | 3.3E-02 | 1.5E-02 |
| **Forage Fish** | **Fish TEQ** | 7.7E-01 | 8.07E+00 | 2.6E+02 | 5.7E+02 | 3.2E-02 | 1.4E-02 |
| **Bottom Fish** | **Fish TEQ** | 7.7E-01 | 9.72E+00 | 2.6E+02 | 5.7E+02 | 3.8E-02 | 1.7E-02 |
| **Predator Fish** | **Fish TEQ** | 7.7E-01 | 1.38E+01 | 2.6E+02 | 5.7E+02 | 5.4E-02 | 2.4E-02 |

**Notes:**
COPC: constituent of potential concern
EPC: exposure point concentration
NOAEL: no observed adverse effect level
ng/kg dw: nanogram per kilogram dry weight
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent

**Table F3-7a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Upper Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow** | **Avian TEQ** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | **1.20E+03** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1** | **Avian TEQ** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2** | **Avian TEQ** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey** | **Avian TEQ** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table F3-7a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Upper Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate |
| **Tree Swallow** | **Avian TEQ** | 1.04E+02 | 4.82E+02 | 1.93E+02 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 1.04E+02 | 4.82E+02 | 1.93E+02 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 |
| **Kingfisher - 1** | **Avian TEQ** | 1.04E+02 | 4.82E+02 | 1.93E+02 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Kingfisher - 2** | **Avian TEQ** | 1.04E+02 | 4.82E+02 | 1.93E+02 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Osprey** | **Avian TEQ** | 1.04E+02 | 4.82E+02 | 1.93E+02 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | 1.38E+01 | 6.87E+01 | 4.37E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 1.01E+02 | 4.32E+01 | 3.66E+01 | 1.44E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | 1.38E+01 | 6.87E+01 | 4.37E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 1.01E+02 | 4.32E+01 | 3.66E+01 | 1.44E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 |

**Table F3-7a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Upper Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Sediment + Prey | NOAEL TRV | NOAEL HQ |
| **Tree Swallow** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 4.64E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E+01 | 1.45E+02 | 3E-01 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 0.00E+00 | 4.29E+01 | 0.00E+00 | 4.29E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.85E+01 | 1.24E+02 | 1.45E+02 | 9E-01 |
| **Kingfisher - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.75E+01 | 0.00E+00 | 0.00E+00 | 3.78E+00 | 1.01E+02 | 1.45E+02 | 7E-01 |
| **Kingfisher - 2** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E+00 | 0.00E+00 | 0.00E+00 | 7.41E+01 | 0.00E+00 | 6.87E-01 | 3.78E+00 | 8.11E+01 | 1.45E+02 | 6E-01 |
| **Osprey** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.86E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.86E+01 | 1.45E+02 | 4E-01 |
| **Bat** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 7.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.73E+00 | 2.50E+01 | 3E-01 |
| **Otter** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E+00 | 7.75E-01 | 4.52E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.18E+00 | 2.50E+01 | 1E-01 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-7b**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Upper Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (ng/kg) | Percent Diet (%) | | | | | | | Modeled Tissue (ng/kg dry weight) | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Terrestrial Spiders/ Detritivores | Riparian Spiders/ Detritivores | Small Mammals | Body Weight (kg) |
| **Mourning Dove** | **Avian TEQ** | **7.05E+02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 3.77E+00 | 2.38E+01 | 2.38E+01 | 2.38E+01 | 2.38E+01 | 7.25E+01 | 1.20E-01 |
| **Blue Jay** | **Avian TEQ** | **7.05E+02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 3.77E+00 | 2.38E+01 | 2.38E+01 | 2.38E+01 | 2.38E+01 | 7.25E+01 | 8.70E-02 |
| **Carolina Wren - 1** | **Avian TEQ** | **7.05E+02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 3.77E+00 | 2.38E+01 | 2.38E+01 | 2.38E+01 | 2.38E+01 | 7.25E+01 | 2.00E-02 |
| **Shrew - 1** | **Mammalian TEQ** | **6.76E+02** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.89E+00 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 1.55E+01 | 1.70E-02 |
| **Deer** | **Mammalian TEQ** | **6.76E+02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 1.89E+00 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 1.55E+01 | 5.66E+01 |
| **Weasel** | **Mammalian TEQ** | **6.76E+02** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 1.89E+00 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 1.55E+01 | 3.00E-01 |
| **Fox - 1** | **Mammalian TEQ** | **6.76E+02** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 1.89E+00 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 1.55E+01 | 4.50E+00 |
| **Fox - 2** | **Mammalian TEQ** | **6.76E+02** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 1.89E+00 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 1.55E+01 | 4.50E+00 |

**Table F3-7b**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Upper Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Intake Estimates (kg dw/kg-day) | | Dose From Dietary Components (ng/kg-day) | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values (ng/kg-day) | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/ Detritivores | Riparian Spiders/ Detritivores | Small Mammals | Soil | Soil + Prey | NOAEL TRV | NOAEL HQ |
| **Mourning Dove** | **Avian TEQ** | 1.41E-01 | 1.96E-02 | 5.32E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E+01 | 1.44E+01 | 1.45E+02 | 1E-01 |
| **Blue Jay** | **Avian TEQ** | 1.53E-01 | 2.14E-02 | 4.50E-01 | 4.01E-01 | 0.00E+00 | 4.01E-01 | 0.00E+00 | 0.00E+00 | 1.51E+01 | 1.63E+01 | 1.45E+02 | 1E-01 |
| **Carolina Wren - 1** | **Avian TEQ** | 2.44E-01 | 3.41E-02 | 8.27E-02 | 2.61E+00 | 8.72E-01 | 1.80E+00 | 0.00E+00 | 0.00E+00 | 2.41E+01 | 2.94E+01 | 1.45E+02 | 2E-01 |
| **Shrew - 1** | **Mammalian TEQ** | 1.28E-01 | 3.83E-03 | 2.89E-02 | 6.92E-01 | 1.00E+00 | 6.92E-01 | 0.00E+00 | 0.00E+00 | 2.59E+00 | 5.01E+00 | 2.50E+01 | 2E-01 |
| **Deer** | **Mammalian TEQ** | 1.47E-02 | 2.93E-04 | 2.76E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-01 | 2.26E-01 | 2.50E+01 | 9E-03 |
| **Weasel** | **Mammalian TEQ** | 5.94E-02 | 2.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.18E-01 | 1.73E+00 | 2.64E+00 | 2.50E+01 | 1E-01 |
| **Fox - 1** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 1.21E-02 | 0.00E+00 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 4.63E-01 | 7.17E-01 | 1.22E+00 | 2.50E+01 | 5E-02 |
| **Fox - 2** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 3.57E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.57E-01 | 7.17E-01 | 1.28E+00 | 2.50E+01 | 5E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-7c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Upper Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil |
| **Carolina Wren - 2** | **Avian TEQ** | **7.05E+02** | **1.20E+03** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Hawk** | **Avian TEQ** | **7.05E+02** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | **6.76E+02** | **1.20E+03** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 |
| **Shrew - 2** | **Mammalian TEQ** | **6.76E+02** | **1.20E+03** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 |

**Table F3-7c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Upper Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate |
| **Carolina Wren - 2** | **Avian TEQ** | 0.00E+00 | 1.04E+02 | 3.77E+00 | 4.82E+02 | 2.38E+01 | 1.93E+02 | 2.38E+01 | 2.38E+01 | 2.38E+01 | 7.25E+01 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | 5.70E-02 | 1.04E+02 | 3.77E+00 | 4.82E+02 | 2.38E+01 | 1.93E+02 | 2.38E+01 | 2.38E+01 | 2.38E+01 | 7.25E+01 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 1.38E+01 | 1.89E+00 | 6.87E+01 | 2.12E+01 | 4.37E+01 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 1.55E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 1.01E+02 | 4.32E+01 | 3.66E+01 | 1.44E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 3.00E-02 | 1.38E+01 | 1.89E+00 | 6.87E+01 | 2.12E+01 | 4.37E+01 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 1.55E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 1.01E+02 | 4.32E+01 | 3.66E+01 | 1.44E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 |

**Table F3-7c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Upper Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Carolina Wren - 2** | **Avian TEQ** | 2.29E+00 | 0.00E+00 | 0.00E+00 | 8.72E-01 | 0.00E+00 | 2.61E+00 | 0.00E+00 | 1.80E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.41E+01 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.05E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E+00 | 0.00E+00 | 3.22E+00 | 5.48E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 2.23E-02 | 0.00E+00 | 5.70E-02 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 0.00E+00 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 4.07E-02 | 6.89E-02 | 0.00E+00 | 0.00E+00 | 1.96E-02 | 1.16E-02 | 1.70E+00 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 0.00E+00 | 4.10E-02 | 0.00E+00 | 1.11E+00 | 0.00E+00 | 4.75E-01 | 4.75E-01 | 0.00E+00 | 9.89E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.68E-02 | 1.84E-02 | 2.59E+00 | 4.60E+00 |

**Table F3-7c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Upper Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Carolina Wren - 2** | **Avian TEQ** | 2.75E+01 | 4.09E+00 | 3.16E+01 | 1.45E+02 | 2E-01 | 3E-02 | 2E-01 |
| **Hawk** | **Avian TEQ** | 8.27E+00 | 7.00E+00 | 1.53E+01 | 1.45E+02 | 6E-02 | 5E-02 | 1E-01 |
| **Raccoon - 1** | **Mammalian TEQ** | 1.92E+00 | 1.41E-01 | 2.06E+00 | 2.50E+01 | 8E-02 | 6E-03 | 8E-02 |
| **Shrew - 2** | **Mammalian TEQ** | 4.80E+00 | 4.67E+00 | 9.46E+00 | 2.50E+01 | 2E-01 | 2E-01 | 4E-01 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-7d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Upper Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1** | **Avian TEQ** | **7.01E+01** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| **GBH** | **Avian TEQ** | **7.01E+01** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| **Mink - 1** | **Mammalian TEQ** | **2.30E+01** | **1.20E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | **2.30E+01** | **1.20E+03** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | **2.30E+01** | **1.20E+03** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | **2.30E+01** | **1.20E+03** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table F3-7d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Upper Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 1.04E+02 | 3.77E+00 | 4.82E+02 | 2.38E+01 | 1.93E+02 | 2.38E+01 | 2.38E+01 | 2.38E+01 | 7.25E+01 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 |
| **GBH** | **Avian TEQ** | 1.04E+02 | 3.77E+00 | 4.82E+02 | 2.38E+01 | 1.93E+02 | 2.38E+01 | 2.38E+01 | 2.38E+01 | 7.25E+01 | 4.82E+02 | 3.69E+03 | 8.36E+01 | 8.29E+02 | 8.10E+02 | 6.19E+02 | 1.45E+02 | 8.73E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 |
| **Mink - 1** | **Mammalian TEQ** | 1.38E+01 | 1.89E+00 | 6.87E+01 | 2.12E+01 | 4.37E+01 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 1.55E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 1.01E+02 | 4.32E+01 | 3.66E+01 | 1.44E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 1.38E+01 | 1.89E+00 | 6.87E+01 | 2.12E+01 | 4.37E+01 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 1.55E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 1.01E+02 | 4.32E+01 | 3.66E+01 | 1.44E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 1.38E+01 | 1.89E+00 | 6.87E+01 | 2.12E+01 | 4.37E+01 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 1.55E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 1.01E+02 | 4.32E+01 | 3.66E+01 | 1.44E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 1.38E+01 | 1.89E+00 | 6.87E+01 | 2.12E+01 | 4.37E+01 | 2.12E+01 | 2.12E+01 | 2.12E+01 | 1.55E+01 | 6.87E+01 | 4.40E+02 | 1.17E+01 | 1.17E+02 | 1.01E+02 | 4.32E+01 | 3.66E+01 | 1.44E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 |

**Table F3-7d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Upper Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 4.29E+01 | 2.12E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E+00 | 1.92E+01 |
| **GBH** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-01 | 0.00E+00 | 0.00E+00 | 1.47E-01 | 1.37E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.15E-01 | 0.00E+00 | 4.23E+00 |
| **Mink - 1** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.37E-01 | 0.00E+00 | 0.00E+00 | 5.19E-02 | 0.00E+00 | 0.00E+00 | 4.49E-01 | 0.00E+00 | 1.85E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 6.83E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.59E-02 | 0.00E+00 | 0.00E+00 | 2.31E-02 | 0.00E+00 | 0.00E+00 | 1.84E+00 | 0.00E+00 | 2.14E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 2.23E-02 | 0.00E+00 | 5.70E-02 | 0.00E+00 | 5.70E-02 | 5.70E-02 | 0.00E+00 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 4.07E-02 | 6.89E-02 | 0.00E+00 | 0.00E+00 | 1.96E-02 | 1.16E-02 | 5.80E-02 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 6.30E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.89E-02 | 5.53E-02 | 1.54E+00 | 4.07E-02 | 7.21E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 3.03E+00 |

**Table F3-7d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Upper Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 3.25E+00 | 6.22E+01 | 6.54E+01 | 1.45E+02 | 2E-02 | 4E-01 | 5E-01 |
| **GBH** | **Avian TEQ** | 1.28E-01 | 1.42E+02 | 1.42E+02 | 1.45E+02 | 9E-04 | 1E+00 | 1E+00 |
| **Mink - 1** | **Mammalian TEQ** | 3.37E-01 | 6.86E-01 | 1.02E+00 | 2.50E+01 | 1E-02 | 3E-02 | 4E-02 |
| **Mink - 2** | **Mammalian TEQ** | 4.59E-02 | 1.89E+00 | 1.93E+00 | 2.50E+01 | 2E-03 | 8E-02 | 8E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | 2.73E-01 | 1.41E-01 | 4.14E-01 | 2.50E+01 | 1E-02 | 6E-03 | 2E-02 |
| **Raccoon - 2** | **Mammalian TEQ** | 7.89E-02 | 5.49E+00 | 5.57E+00 | 2.50E+01 | 3E-03 | 2E-01 | 2E-01 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-7e**
**Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values**
**Upper Assessment Area: Total TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC | Modeled Fish Tissue Fish EPC | Toxicity Reference Values (ng/kg dw) | | Hazard Quotients (unitless) | |
|---|---|---|---|---|---|---|---|
| | | | (ng/kg dw) | Fish NOAEL (Mean Lipid) | Fish NOAEL (Max Lipid) | Fish (Mean Lipid) | Fish (Max Lipid) |
| **All Fish** | **Fish TEQ** | 6.0E+01 | 6.49E+01 | 2.6E+02 | 5.7E+02 | 2.5E-01 | 1.1E-01 |
| **Forage Fish** | **Fish TEQ** | 6.0E+01 | 7.60E+01 | 2.6E+02 | 5.7E+02 | 3.0E-01 | 1.3E-01 |
| **Bottom Fish** | **Fish TEQ** | 6.0E+01 | 5.27E+01 | 2.6E+02 | 5.7E+02 | 2.1E-01 | 9.2E-02 |
| **Predator Fish** | **Fish TEQ** | 6.0E+01 | 2.57E+01 | 2.6E+02 | 5.7E+02 | 1.0E-01 | 4.5E-02 |

**Notes:**
COPC: constituent of potential concern
EPC: exposure point concentration
NOAEL: no observed adverse effect level
ng/kg dw: nanogram per kilogram dry weight
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent

**Table F3-8a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Middle Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow** | **Avian TEQ** | **6.03E+01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | **6.03E+01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1** | **Avian TEQ** | **6.03E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2** | **Avian TEQ** | **6.03E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey** | **Avian TEQ** | **6.03E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | **1.99E+01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | **1.99E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table F3-8a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Middle Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate |
| **Tree Swallow** | **Avian TEQ** | 5.64E+01 | 2.65E+02 | 2.29E+02 | 2.65E+02 | 1.96E+03 | 5.07E+01 | 6.19E+02 | 5.72E+02 | 5.21E+02 | 1.79E+02 | 7.27E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 5.64E+01 | 2.65E+02 | 2.29E+02 | 2.65E+02 | 1.96E+03 | 5.07E+01 | 6.19E+02 | 5.72E+02 | 5.21E+02 | 1.79E+02 | 7.27E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 |
| **Kingfisher - 1** | **Avian TEQ** | 5.64E+01 | 2.65E+02 | 2.29E+02 | 2.65E+02 | 1.96E+03 | 5.07E+01 | 6.19E+02 | 5.72E+02 | 5.21E+02 | 1.79E+02 | 7.27E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Kingfisher - 2** | **Avian TEQ** | 5.64E+01 | 2.65E+02 | 2.29E+02 | 2.65E+02 | 1.96E+03 | 5.07E+01 | 6.19E+02 | 5.72E+02 | 5.21E+02 | 1.79E+02 | 7.27E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Osprey** | **Avian TEQ** | 5.64E+01 | 2.65E+02 | 2.29E+02 | 2.65E+02 | 1.96E+03 | 5.07E+01 | 6.19E+02 | 5.72E+02 | 5.21E+02 | 1.79E+02 | 7.27E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | 8.76E+00 | 4.00E+01 | 1.16E+02 | 4.00E+01 | 2.69E+02 | 1.07E+01 | 2.13E+02 | 1.58E+02 | 2.11E+02 | 9.41E+01 | 3.29E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | 8.76E+00 | 4.00E+01 | 1.16E+02 | 4.00E+01 | 2.69E+02 | 1.07E+01 | 2.13E+02 | 1.58E+02 | 2.11E+02 | 9.41E+01 | 3.29E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 |

**Table F3-8a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Middle Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Sediment + Prey | NOAEL TRV | NOAEL HQ |
| **Tree Swallow** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 5.50E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.50E+01 | 1.45E+02 | 4E-01 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 0.00E+00 | 2.36E+01 | 0.00E+00 | 2.36E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.93E+00 | 4.90E+01 | 1.45E+02 | 3E-01 |
| **Kingfisher - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.20E+01 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 8.22E+01 | 1.45E+02 | 6E-01 |
| **Kingfisher - 2** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E+00 | 0.00E+00 | 0.00E+00 | 6.23E+01 | 0.00E+00 | 5.73E-01 | 1.90E-01 | 6.46E+01 | 1.45E+02 | 4E-01 |
| **Osprey** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.37E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.37E+01 | 1.45E+02 | 3E-01 |
| **Bat** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 2.06E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E+01 | 2.50E+01 | 8E-01 |
| **Otter** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.56E+00 | 1.21E+00 | 2.20E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.98E+00 | 2.50E+01 | 3E-01 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-8b**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Middle Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (ng/kg) | Percent Diet (%) | | | | | | | Modeled Tissue (ng/kg dry weight) | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Body Weight (kg) |
| **Mourning Dove** | **Avian TEQ** | **2.54E+02** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 9.50E+00 | 2.15E+01 | 2.15E+01 | 2.15E+01 | 2.15E+01 | 1.47E+02 | 1.20E-01 |
| **Blue Jay** | **Avian TEQ** | **2.54E+02** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 9.50E+00 | 2.15E+01 | 2.15E+01 | 2.15E+01 | 2.15E+01 | 1.47E+02 | 8.70E-02 |
| **Carolina Wren - 1** | **Avian TEQ** | **2.54E+02** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 9.50E+00 | 2.15E+01 | 2.15E+01 | 2.15E+01 | 2.15E+01 | 1.47E+02 | 2.00E-02 |
| **Shrew - 1** | **Mammalian TEQ** | **3.71E+01** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 2.96E+00 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 1.74E+01 | 1.70E-02 |
| **Deer** | **Mammalian TEQ** | **3.71E+01** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 2.96E+00 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 1.74E+01 | 5.66E+01 |
| **Weasel** | **Mammalian TEQ** | **3.71E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 2.96E+00 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 1.74E+01 | 3.00E-01 |
| **Fox - 1** | **Mammalian TEQ** | **3.71E+01** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 2.96E+00 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 1.74E+01 | 4.50E+00 |
| **Fox - 2** | **Mammalian TEQ** | **3.71E+01** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 2.96E+00 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 1.74E+01 | 4.50E+00 |

**Table F3-8b**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Middle Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Intake Estimates (kg dw/kg-day) | | Dose From Dietary Components (ng/kg-day) | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values (ng/kg-day) | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/Detritivores | Riparian Spiders/Detritivores | Small Mammals | Soil | Soil + Prey | NOAEL TRV | NOAEL HQ |
| **Mourning Dove** | **Avian TEQ** | 1.41E-01 | 1.96E-02 | 1.34E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.99E+00 | 6.33E+00 | 1.45E+02 | 4E-02 |
| **Blue Jay** | **Avian TEQ** | 1.53E-01 | 2.14E-02 | 1.13E+00 | 3.62E-01 | 0.00E+00 | 3.62E-01 | 0.00E+00 | 0.00E+00 | 5.44E+00 | 7.29E+00 | 1.45E+02 | 5E-02 |
| **Carolina Wren - 1** | **Avian TEQ** | 2.44E-01 | 3.41E-02 | 2.08E-01 | 2.36E+00 | 7.86E-01 | 1.62E+00 | 0.00E+00 | 0.00E+00 | 8.67E+00 | 1.36E+01 | 1.45E+02 | 9E-02 |
| **Shrew - 1** | **Mammalian TEQ** | 1.28E-01 | 3.83E-03 | 4.53E-02 | 7.36E-02 | 1.07E-01 | 7.36E-02 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 4.42E-01 | 2.50E+01 | 2E-02 |
| **Deer** | **Mammalian TEQ** | 1.47E-02 | 2.93E-04 | 4.33E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-02 | 5.42E-02 | 2.50E+01 | 2E-03 |
| **Weasel** | **Mammalian TEQ** | 5.94E-02 | 2.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E+00 | 9.47E-02 | 1.13E+00 | 2.50E+01 | 5E-02 |
| **Fox - 1** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 1.90E-02 | 0.00E+00 | 3.42E-03 | 0.00E+00 | 0.00E+00 | 5.21E-01 | 3.93E-02 | 5.83E-01 | 2.50E+01 | 2E-02 |
| **Fox - 2** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 5.59E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.27E-01 | 3.93E-02 | 6.72E-01 | 2.50E+01 | 3E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-8c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Middle Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil |
| **Carolina Wren - 2** | **Avian TEQ** | **2.54E+02** | **6.03E+01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Hawk** | **Avian TEQ** | **2.54E+02** | **6.03E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | **3.71E+01** | **1.99E+01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 |
| **Shrew - 2** | **Mammalian TEQ** | **3.71E+01** | **1.99E+01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 |

**Table F3-8c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Middle Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate |
| **Carolina Wren - 2** | **Avian TEQ** | 0.00E+00 | 5.64E+01 | 9.50E+00 | 2.65E+02 | 2.15E+01 | 2.29E+02 | 2.15E+01 | 2.15E+01 | 2.15E+01 | 1.47E+02 | 2.65E+02 | 1.96E+03 | 5.07E+01 | 6.19E+02 | 5.72E+02 | 5.21E+02 | 1.79E+02 | 7.27E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | 5.70E-02 | 5.64E+01 | 9.50E+00 | 2.65E+02 | 2.15E+01 | 2.29E+02 | 2.15E+01 | 2.15E+01 | 2.15E+01 | 1.47E+02 | 2.65E+02 | 1.96E+03 | 5.07E+01 | 6.19E+02 | 5.72E+02 | 5.21E+02 | 1.79E+02 | 7.27E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 8.76E+00 | 2.96E+00 | 4.00E+01 | 2.26E+00 | 1.16E+02 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 1.74E+01 | 4.00E+01 | 2.69E+02 | 1.07E+01 | 2.13E+02 | 1.58E+02 | 2.11E+02 | 9.41E+01 | 3.29E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 3.00E-02 | 8.76E+00 | 2.96E+00 | 4.00E+01 | 2.26E+00 | 1.16E+02 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 1.74E+01 | 4.00E+01 | 2.69E+02 | 1.07E+01 | 2.13E+02 | 1.58E+02 | 2.11E+02 | 9.41E+01 | 3.29E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 |

**Table F3-8c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Middle Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Carolina Wren - 2** | **Avian TEQ** | 1.24E+00 | 0.00E+00 | 0.00E+00 | 7.86E-01 | 0.00E+00 | 2.36E+00 | 0.00E+00 | 1.62E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.67E+00 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E+00 | 0.00E+00 | 1.16E+00 | 2.76E-01 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 3.49E-02 | 0.00E+00 | 6.06E-03 | 0.00E+00 | 6.06E-03 | 6.06E-03 | 0.00E+00 | 2.48E-02 | 0.00E+00 | 0.00E+00 | 3.72E-02 | 1.26E-01 | 0.00E+00 | 0.00E+00 | 5.05E-02 | 2.65E-02 | 9.36E-02 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 0.00E+00 | 6.42E-02 | 0.00E+00 | 1.18E-01 | 0.00E+00 | 5.05E-02 | 5.05E-02 | 0.00E+00 | 1.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 4.20E-02 | 1.42E-01 | 7.63E-02 |

**Table F3-8c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Middle Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Carolina Wren - 2** | **Avian TEQ** | 1.18E+01 | 2.86E+00 | 1.47E+01 | 1.45E+02 | 8E-02 | 2E-02 | 1E-01 |
| **Hawk** | **Avian TEQ** | 1.14E+01 | 2.14E+00 | 1.35E+01 | 1.45E+02 | 8E-02 | 1E-02 | 9E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | 1.71E-01 | 2.40E-01 | 4.11E-01 | 2.50E+01 | 7E-03 | 1E-02 | 2E-02 |
| **Shrew - 2** | **Mammalian TEQ** | 5.37E-01 | 2.39E-01 | 7.76E-01 | 2.50E+01 | 2E-02 | 1E-02 | 3E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-8d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Middle Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1** | **Avian TEQ** | **1.06E+03** | **6.03E+01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| **GBH** | **Avian TEQ** | **1.06E+03** | **6.03E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| **Mink - 1** | **Mammalian TEQ** | **4.35E+01** | **1.99E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | **4.35E+01** | **1.99E+01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | **4.35E+01** | **1.99E+01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | **4.35E+01** | **1.99E+01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table F3-8d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Middle Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 5.64E+01 | 9.50E+00 | 2.65E+02 | 2.15E+01 | 2.29E+02 | 2.15E+01 | 2.15E+01 | 2.15E+01 | 1.47E+02 | 2.65E+02 | 1.96E+03 | 5.07E+01 | 6.19E+02 | 5.72E+02 | 5.21E+02 | 1.79E+02 | 7.27E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 |
| **GBH** | **Avian TEQ** | 5.64E+01 | 9.50E+00 | 2.65E+02 | 2.15E+01 | 2.29E+02 | 2.15E+01 | 2.15E+01 | 2.15E+01 | 1.47E+02 | 2.65E+02 | 1.96E+03 | 5.07E+01 | 6.19E+02 | 5.72E+02 | 5.21E+02 | 1.79E+02 | 7.27E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 |
| **Mink - 1** | **Mammalian TEQ** | 8.76E+00 | 2.96E+00 | 4.00E+01 | 2.26E+00 | 1.16E+02 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 1.74E+01 | 4.00E+01 | 2.69E+02 | 1.07E+01 | 2.13E+02 | 1.58E+02 | 2.11E+02 | 9.41E+01 | 3.29E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 8.76E+00 | 2.96E+00 | 4.00E+01 | 2.26E+00 | 1.16E+02 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 1.74E+01 | 4.00E+01 | 2.69E+02 | 1.07E+01 | 2.13E+02 | 1.58E+02 | 2.11E+02 | 9.41E+01 | 3.29E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 8.76E+00 | 2.96E+00 | 4.00E+01 | 2.26E+00 | 1.16E+02 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 1.74E+01 | 4.00E+01 | 2.69E+02 | 1.07E+01 | 2.13E+02 | 1.58E+02 | 2.11E+02 | 9.41E+01 | 3.29E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 8.76E+00 | 2.96E+00 | 4.00E+01 | 2.26E+00 | 1.16E+02 | 2.26E+00 | 2.26E+00 | 2.26E+00 | 1.74E+01 | 4.00E+01 | 2.69E+02 | 1.07E+01 | 2.13E+02 | 1.58E+02 | 2.11E+02 | 9.41E+01 | 3.29E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 |

**Table F3-8d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Middle Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 2.36E+01 | 1.91E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E+01 | 9.66E-01 |
| **GBH** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.58E-01 | 0.00E+00 | 0.00E+00 | 8.93E-02 | 1.02E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.12E-01 | 0.00E+00 | 2.12E-01 |
| **Mink - 1** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.79E-01 | 0.00E+00 | 0.00E+00 | 4.75E-02 | 0.00E+00 | 0.00E+00 | 2.19E+00 | 0.00E+00 | 4.23E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 4.33E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.17E-02 | 0.00E+00 | 0.00E+00 | 2.11E-02 | 0.00E+00 | 0.00E+00 | 8.96E+00 | 0.00E+00 | 4.88E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 3.49E-02 | 0.00E+00 | 6.06E-03 | 0.00E+00 | 6.06E-03 | 6.06E-03 | 0.00E+00 | 2.48E-02 | 0.00E+00 | 0.00E+00 | 3.72E-02 | 1.26E-01 | 0.00E+00 | 0.00E+00 | 5.05E-02 | 2.65E-02 | 1.10E-01 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 4.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.88E-02 | 3.22E-02 | 9.38E-01 | 3.72E-02 | 1.31E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-01 | 0.00E+00 | 5.02E-02 |

**Table F3-8d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Middle Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 1.89E+01 | 2.45E+01 | 4.35E+01 | 1.45E+02 | 1E-01 | 2E-01 | 3E-01 |
| **GBH** | **Avian TEQ** | 2.58E-01 | 1.03E+02 | 1.03E+02 | 1.45E+02 | 2E-03 | 7E-01 | 7E-01 |
| **Mink - 1** | **Mammalian TEQ** | 3.79E-01 | 2.66E+00 | 3.04E+00 | 2.50E+01 | 2E-02 | 1E-01 | 1E-01 |
| **Mink - 2** | **Mammalian TEQ** | 5.17E-02 | 9.04E+00 | 9.09E+00 | 2.50E+01 | 2E-03 | 4E-01 | 4E-01 |
| **Raccoon - 1** | **Mammalian TEQ** | 1.88E-01 | 2.40E-01 | 4.27E-01 | 2.50E+01 | 8E-03 | 1E-02 | 2E-02 |
| **Raccoon - 2** | **Mammalian TEQ** | 8.88E-02 | 2.52E+00 | 2.61E+00 | 2.50E+01 | 4E-03 | 1E-01 | 1E-01 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-8e**
**Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values**
**Middle Assessment Area: Total TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC | Modeled Fish Tissue Fish EPC | Toxicity Reference Values (ng/kg dw) | | Hazard Quotients (unitless) | |
|---|---|---|---|---|---|---|---|
| | | | (ng/kg dw) | Fish NOAEL (Mean Lipid) | Fish NOAEL (Max Lipid) | Fish (Mean Lipid) | Fish (Max Lipid) |
| **All Fish** | **Fish TEQ** | 1.6E+01 | 6.49E+01 | 2.6E+02 | 5.7E+02 | 2.5E-01 | 1.1E-01 |
| **Forage Fish** | **Fish TEQ** | 1.6E+01 | 7.60E+01 | 2.6E+02 | 5.7E+02 | 3.0E-01 | 1.3E-01 |
| **Bottom Fish** | **Fish TEQ** | 1.6E+01 | 5.27E+01 | 2.6E+02 | 5.7E+02 | 2.1E-01 | 9.2E-02 |
| **Predator Fish** | **Fish TEQ** | 1.6E+01 | 2.57E+01 | 2.6E+02 | 5.7E+02 | 1.0E-01 | 4.5E-02 |

**Notes:**
COPC: constituent of potential concern
EPC: exposure point concentration
NOAEL: no observed adverse effect level
ng/kg dw: nanogram per kilogram dry weight
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent

**Table F3-9a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Lower Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment |
| **Tree Swallow** | **Avian TEQ** | **5.59E+01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | **5.59E+01** | 0.00E+00 | 5.00E-01 | 0.00E+00 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-01 |
| **Kingfisher - 1** | **Avian TEQ** | **5.59E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 |
| **Kingfisher - 2** | **Avian TEQ** | **5.59E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 7.60E-01 | 0.00E+00 | 5.00E-02 | 2.00E-02 |
| **Osprey** | **Avian TEQ** | **5.59E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | **1.85E+01** | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | **1.85E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.80E-01 | 2.20E-01 | 3.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

**Table F3-9a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Lower Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Sediment Ingestion Rate |
| **Tree Swallow** | **Avian TEQ** | 5.21E+01 | 2.42E+02 | 2.14E+02 | 2.42E+02 | 1.85E+03 | 4.82E+01 | 5.07E+02 | 5.32E+02 | 3.74E+02 | 1.67E+02 | 6.88E+01 | 2.10E-02 | 2.40E-01 | 0.00E+00 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 5.21E+01 | 2.42E+02 | 2.14E+02 | 2.42E+02 | 1.85E+03 | 4.82E+01 | 5.07E+02 | 5.32E+02 | 3.74E+02 | 1.67E+02 | 6.88E+01 | 4.30E-02 | 1.78E-01 | 3.20E-02 |
| **Kingfisher - 1** | **Avian TEQ** | 5.21E+01 | 2.42E+02 | 2.14E+02 | 2.42E+02 | 1.85E+03 | 4.82E+01 | 5.07E+02 | 5.32E+02 | 3.74E+02 | 1.67E+02 | 6.88E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Kingfisher - 2** | **Avian TEQ** | 5.21E+01 | 2.42E+02 | 2.14E+02 | 2.42E+02 | 1.85E+03 | 4.82E+01 | 5.07E+02 | 5.32E+02 | 3.74E+02 | 1.67E+02 | 6.88E+01 | 1.48E-01 | 1.58E-01 | 3.15E-03 |
| **Osprey** | **Avian TEQ** | 5.21E+01 | 2.42E+02 | 2.14E+02 | 2.42E+02 | 1.85E+03 | 4.82E+01 | 5.07E+02 | 5.32E+02 | 3.74E+02 | 1.67E+02 | 6.88E+01 | 1.60E+00 | 7.07E-02 | 0.00E+00 |
| **Bat** | **Mammalian TEQ** | 8.29E+00 | 3.74E+01 | 1.11E+02 | 3.74E+01 | 2.55E+02 | 1.03E+01 | 1.31E+02 | 1.49E+02 | 9.42E+01 | 8.75E+01 | 3.13E+01 | 9.00E-03 | 1.77E-01 | 0.00E+00 |
| **Otter** | **Mammalian TEQ** | 8.29E+00 | 3.74E+01 | 1.11E+02 | 3.74E+01 | 2.55E+02 | 1.03E+01 | 1.31E+02 | 1.49E+02 | 9.42E+01 | 8.75E+01 | 3.13E+01 | 7.40E+00 | 3.49E-02 | 0.00E+00 |

**Table F3-9a**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic Receptors**

**Lower Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Benthic Invertebrates (odonata larvae) | Aquatic Emergent Insects | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Sediment | Sediment + Prey | NOAEL TRV | NOAEL HQ |
| **Tree Swallow** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 5.12E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.12E+01 | 1.45E+02 | 4E-01 |
| **Spotted Sandpiper - 2** | **Avian TEQ** | 0.00E+00 | 2.15E+01 | 0.00E+00 | 2.15E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E+00 | 4.49E+01 | 1.45E+02 | 3E-01 |
| **Kingfisher - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.90E+01 | 0.00E+00 | 0.00E+00 | 1.76E-01 | 5.92E+01 | 1.45E+02 | 4E-01 |
| **Kingfisher - 2** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.44E+00 | 0.00E+00 | 0.00E+00 | 4.48E+01 | 0.00E+00 | 5.42E-01 | 1.76E-01 | 4.70E+01 | 1.45E+02 | 3E-01 |
| **Osprey** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.58E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.58E+01 | 1.45E+02 | 2E-01 |
| **Bat** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 1.97E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E+01 | 2.50E+01 | 8E-01 |
| **Otter** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.20E+00 | 1.14E+00 | 9.85E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.33E+00 | 2.50E+01 | 2E-01 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-9b**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Lower Assessment Area: Total TEQ**

**Baseline Ecological Risk Assessment for OU-4**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Soil EPC (ng/kg) | Percent Diet (%) | | | | | | | Modeled Tissue (ng/kg dry weight) | | | | | | Body Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small Mammals | Soil | Terrestrial Plants | Terrestrial Insects | Worms / Spiders / Detritivores | Terrestrial Spiders/ Detritivores | Riparian Spiders/ Detritivores | Small Mammals | Body Weight (kg) |
| **Mourning Dove** | **Avian TEQ** | **8.37E+03** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-01 | 2.02E+01 | 2.81E+02 | 2.81E+02 | 2.81E+02 | 2.81E+02 | 8.78E+01 | 1.20E-01 |
| **Blue Jay** | **Avian TEQ** | **8.37E+03** | 7.80E-01 | 1.10E-01 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.02E+01 | 2.81E+02 | 2.81E+02 | 2.81E+02 | 2.81E+02 | 8.78E+01 | 8.70E-02 |
| **Carolina Wren - 1** | **Avian TEQ** | **8.37E+03** | 9.00E-02 | 4.50E-01 | 1.50E-01 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 1.40E-01 | 2.02E+01 | 2.81E+02 | 2.81E+02 | 2.81E+02 | 2.81E+02 | 8.78E+01 | 2.00E-02 |
| **Shrew - 1** | **Mammalian TEQ** | **1.72E+03** | 1.20E-01 | 2.55E-01 | 3.70E-01 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 3.76E+00 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 1.11E+01 | 1.70E-02 |
| **Deer** | **Mammalian TEQ** | **1.72E+03** | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.76E+00 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 1.11E+01 | 5.66E+01 |
| **Weasel** | **Mammalian TEQ** | **1.72E+03** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 4.30E-02 | 3.76E+00 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 1.11E+01 | 3.00E-01 |
| **Fox - 1** | **Mammalian TEQ** | **1.72E+03** | 1.70E-01 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 7.90E-01 | 2.80E-02 | 3.76E+00 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 1.11E+01 | 4.50E+00 |
| **Fox - 2** | **Mammalian TEQ** | **1.72E+03** | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 2.80E-02 | 3.76E+00 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 1.11E+01 | 4.50E+00 |

**Table F3-9b**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Terrestrial Receptors**

**Lower Assessment Area: Total TEQ**

**Baseline Ecological Risk Assessment for OU-4**
**Anniston PCB Site, Anniston, Alabama**

| Terrestrial Receptors | COPC | Intake Estimates (kg dw/kg-day) | | Dose From Dietary Components (ng/kg-day) | | | | | | | Total Dose (ng/kg-day) | Toxicity Reference Values (ng/kg-day) | Hazard Quotients |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Food Ingestion Rate | Soil Ingestion Rate | Terrestrial Plants | Terrestrial Insects | Worms | Terrestrial Spiders/ Detritivores | Riparian Spiders/ Detritivores | Small Mammals | Soil | Soil + Prey | NOAEL TRV | NOAEL HQ |
| **Mourning Dove** | **Avian TEQ** | 1.41E-01 | 1.96E-02 | 2.85E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E+02 | 1.67E+02 | 1.45E+02 | **1E+00** |
| **Blue Jay** | **Avian TEQ** | 1.53E-01 | 2.14E-02 | 2.40E+00 | 4.73E+00 | 0.00E+00 | 4.73E+00 | 0.00E+00 | 0.00E+00 | 1.79E+02 | 1.91E+02 | 1.45E+02 | **1E+00** |
| **Carolina Wren - 1** | **Avian TEQ** | 2.44E-01 | 3.41E-02 | 4.42E-01 | 3.09E+01 | 1.03E+01 | 2.13E+01 | 0.00E+00 | 0.00E+00 | 2.86E+02 | 3.48E+02 | 1.45E+02 | **2E+00** |
| **Shrew - 1** | **Mammalian TEQ** | 1.28E-01 | 3.83E-03 | 5.76E-02 | 1.82E+00 | 2.64E+00 | 1.82E+00 | 0.00E+00 | 0.00E+00 | 6.60E+00 | 1.29E+01 | 2.50E+01 | 5E-01 |
| **Deer** | **Mammalian TEQ** | 1.47E-02 | 2.93E-04 | 5.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.04E-01 | 5.59E-01 | 2.50E+01 | 2E-02 |
| **Weasel** | **Mammalian TEQ** | 5.94E-02 | 2.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.59E-01 | 4.39E+00 | 5.05E+00 | 2.50E+01 | 2E-01 |
| **Fox - 1** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 2.42E-02 | 0.00E+00 | 8.46E-02 | 0.00E+00 | 0.00E+00 | 3.32E-01 | 1.82E+00 | 2.27E+00 | 2.50E+01 | 9E-02 |
| **Fox - 2** | **Mammalian TEQ** | 3.79E-02 | 1.06E-03 | 7.12E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-01 | 1.82E+00 | 2.23E+00 | 2.50E+01 | 9E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-9c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Lower Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil |
| **Carolina Wren - 2** | **Avian TEQ** | **8.37E+03** | **5.59E+01** | 9.00E-02 | 0.00E+00 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 4.50E-01 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-01 |
| **Hawk** | **Avian TEQ** | **8.37E+03** | **5.59E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 5.70E-02 |
| **Raccoon - 1** | **Mammalian TEQ** | **1.72E+03** | **1.85E+01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 |
| **Shrew - 2** | **Mammalian TEQ** | **1.72E+03** | **1.85E+01** | 0.00E+00 | 1.70E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 1.75E-01 | 1.75E-01 | 0.00E+00 | 5.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 1.00E-02 | 3.00E-02 |

**Table F3-9c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Lower Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Percent Diet (%) | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sediment | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/ birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate |
| **Carolina Wren - 2** | **Avian TEQ** | 0.00E+00 | 5.21E+01 | 2.02E+01 | 2.42E+02 | 2.81E+02 | 2.14E+02 | 2.81E+02 | 2.81E+02 | 2.81E+02 | 8.78E+01 | 2.42E+02 | 1.85E+03 | 4.82E+01 | 5.07E+02 | 5.32E+02 | 3.74E+02 | 1.67E+02 | 6.88E+01 | 2.00E-02 | 2.44E-01 | 3.41E-02 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | 5.70E-02 | 5.21E+01 | 2.02E+01 | 2.42E+02 | 2.81E+02 | 2.14E+02 | 2.81E+02 | 2.81E+02 | 2.81E+02 | 8.78E+01 | 2.42E+02 | 1.85E+03 | 4.82E+01 | 5.07E+02 | 5.32E+02 | 3.74E+02 | 1.67E+02 | 6.88E+01 | 1.10E+00 | 8.02E-02 | 4.57E-03 | 4.57E-03 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 8.29E+00 | 3.76E+00 | 3.74E+01 | 5.58E+01 | 1.11E+02 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 1.11E+01 | 3.74E+01 | 2.55E+02 | 1.03E+01 | 1.31E+02 | 1.49E+02 | 9.42E+01 | 8.75E+01 | 3.13E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 3.00E-02 | 8.29E+00 | 3.76E+00 | 3.74E+01 | 5.58E+01 | 1.11E+02 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 1.11E+01 | 3.74E+01 | 2.55E+02 | 1.03E+01 | 1.31E+02 | 1.49E+02 | 9.42E+01 | 8.75E+01 | 3.13E+01 | 1.70E-02 | 1.28E-01 | 3.83E-03 | 3.83E-03 |

**Table F3-9c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Lower Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Carolina Wren - 2** | **Avian TEQ** | 1.14E+00 | 0.00E+00 | 0.00E+00 | 1.03E+01 | 0.00E+00 | 3.09E+01 | 0.00E+00 | 2.13E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.86E+02 | 0.00E+00 |
| **Hawk** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.12E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E+00 | 0.00E+00 | 3.82E+01 | 2.55E-01 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 4.44E-02 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 1.50E-01 | 1.50E-01 | 0.00E+00 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 3.57E-02 | 7.74E-02 | 0.00E+00 | 0.00E+00 | 4.70E-02 | 2.52E-02 | 4.34E+00 | 0.00E+00 |
| **Shrew - 2** | **Mammalian TEQ** | 0.00E+00 | 8.17E-02 | 0.00E+00 | 2.93E+00 | 0.00E+00 | 1.25E+00 | 1.25E+00 | 0.00E+00 | 7.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-01 | 4.00E-02 | 6.60E+00 | 7.09E-02 |

**Table F3-9c**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Aquatic+Terrestrial Receptors**

**Lower Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Carolina Wren - 2** | **Avian TEQ** | 3.27E+02 | 2.24E+01 | 3.49E+02 | 1.45E+02 | **2E+00** | 2E-01 | **2E+00** |
| **Hawk** | **Avian TEQ** | 4.44E+01 | 2.00E+00 | 4.64E+01 | 1.45E+02 | 3E-01 | 1E-02 | 3E-01 |
| **Raccoon - 1** | **Mammalian TEQ** | 4.85E+00 | 1.85E-01 | 5.03E+00 | 2.50E+01 | 2E-01 | 7E-03 | 2E-01 |
| **Shrew - 2** | **Mammalian TEQ** | 1.22E+01 | 2.23E-01 | 1.24E+01 | 2.50E+01 | 5E-01 | 9E-03 | 5E-01 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-9d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Lower Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Soil EPC (ng/kg) | Sediment EPC (ng/kg) | Percent Diet (%) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects (Grasshoppers) | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1** | **Avian TEQ** | **7.40E+03** | **5.59E+01** | 0.00E+00 | 0.00E+00 | 5.00E-01 | 5.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 9.00E-02 |
| **GBH** | **Avian TEQ** | **7.40E+03** | **5.59E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 1.00E-02 | 9.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 2.00E-02 |
| **Mink - 1** | **Mammalian TEQ** | **2.65E+03** | **1.85E+01** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-01 | 0.00E+00 | 0.00E+00 | 9.00E-02 | 0.00E+00 | 0.00E+00 | 2.10E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | **2.65E+03** | **1.85E+01** | 1.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 8.60E-01 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | **2.65E+03** | **1.85E+01** | 0.00E+00 | 4.40E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 1.00E-01 | 1.00E-01 | 0.00E+00 | 5.30E-02 | 0.00E+00 | 0.00E+00 | 1.30E-01 | 2.20E-02 | 0.00E+00 | 0.00E+00 | 2.00E-02 | 3.00E-02 | 9.40E-02 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | **2.65E+03** | **1.85E+01** | 1.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-01 | 3.00E-02 | 1.30E-01 | 1.30E-01 | 2.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-01 | 0.00E+00 | 9.40E-02 |

**Table F3-9d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Lower Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Modeled Tissue (ng/kg dry weight) | | | | | | | | | | | | | | | | | Body Weight (kg) | Intake Estimates (kg dw/kg-day) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (Worms / Spiders / Detritivores) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals/birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Body Weight (kg) | Food Ingestion Rate | Soil Ingestion | Sediment Ingestion Rate |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 5.21E+01 | 2.02E+01 | 2.42E+02 | 2.81E+02 | 2.14E+02 | 2.81E+02 | 2.81E+02 | 2.81E+02 | 8.78E+01 | 2.42E+02 | 1.85E+03 | 4.82E+01 | 5.07E+02 | 5.32E+02 | 3.74E+02 | 1.67E+02 | 6.88E+01 | 4.30E-02 | 1.78E-01 | 1.60E-02 | 1.60E-02 |
| **GBH** | **Avian TEQ** | 5.21E+01 | 2.02E+01 | 2.42E+02 | 2.81E+02 | 2.14E+02 | 2.81E+02 | 2.81E+02 | 2.81E+02 | 8.78E+01 | 2.42E+02 | 1.85E+03 | 4.82E+01 | 5.07E+02 | 5.32E+02 | 3.74E+02 | 1.67E+02 | 6.88E+01 | 2.30E+00 | 1.76E-01 | 0.00E+00 | 3.52E-03 |
| **Mink - 1** | **Mammalian TEQ** | 8.29E+00 | 3.76E+00 | 3.74E+01 | 5.58E+01 | 1.11E+02 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 1.11E+01 | 3.74E+01 | 2.55E+02 | 1.03E+01 | 1.31E+02 | 1.49E+02 | 9.42E+01 | 8.75E+01 | 3.13E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 8.29E+00 | 3.76E+00 | 3.74E+01 | 5.58E+01 | 1.11E+02 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 1.11E+01 | 3.74E+01 | 2.55E+02 | 1.03E+01 | 1.31E+02 | 1.49E+02 | 9.42E+01 | 8.75E+01 | 3.13E+01 | 9.00E-01 | 4.95E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 8.29E+00 | 3.76E+00 | 3.74E+01 | 5.58E+01 | 1.11E+02 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 1.11E+01 | 3.74E+01 | 2.55E+02 | 1.03E+01 | 1.31E+02 | 1.49E+02 | 9.42E+01 | 8.75E+01 | 3.13E+01 | 5.60E+00 | 2.68E-02 | 2.52E-03 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 8.29E+00 | 3.76E+00 | 3.74E+01 | 5.58E+01 | 1.11E+02 | 5.58E+01 | 5.58E+01 | 5.58E+01 | 1.11E+01 | 3.74E+01 | 2.55E+02 | 1.03E+01 | 1.31E+02 | 1.49E+02 | 9.42E+01 | 8.75E+01 | 3.13E+01 | 5.60E+00 | 2.68E-02 | 0.00E+00 | 2.52E-03 |

**Table F3-9d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Lower Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Dose From Dietary Components (ng/kg-day) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Aquatic Plants | Terrestrial Plants | Benthic Invertebrates (odonata larvae) | Soil Invertebrates (worms) | Aquatic Emergent Insects | Terrestrial Insects | Terrestrial Spiders / Detritivores | Riparian Spiders / Detritivores | Small mammals / birds | Aquatic Oligochaetes | Mollusc | Crayfish | Fish (all sizes) | Predator Fish | Forage Fish | Reptiles | Amphibians | Soil | Sediment |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 2.15E+01 | 2.51E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.19E+02 | 8.96E-01 |
| **GBH** | **Avian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.55E-01 | 0.00E+00 | 0.00E+00 | 8.48E-02 | 8.40E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.84E-01 | 0.00E+00 | 1.97E-01 |
| **Mink - 1** | **Mammalian TEQ** | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.42E-01 | 0.00E+00 | 0.00E+00 | 4.56E-02 | 0.00E+00 | 0.00E+00 | 9.78E-01 | 0.00E+00 | 4.02E-01 | 0.00E+00 | 0.00E+00 |
| **Mink - 2** | **Mammalian TEQ** | 4.10E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.30E-02 | 0.00E+00 | 0.00E+00 | 2.03E-02 | 0.00E+00 | 0.00E+00 | 4.01E+00 | 0.00E+00 | 4.64E-02 | 0.00E+00 | 0.00E+00 |
| **Raccoon - 1** | **Mammalian TEQ** | 0.00E+00 | 4.44E-02 | 0.00E+00 | 1.50E-01 | 0.00E+00 | 1.50E-01 | 1.50E-01 | 0.00E+00 | 1.58E-02 | 0.00E+00 | 0.00E+00 | 3.57E-02 | 7.74E-02 | 0.00E+00 | 0.00E+00 | 4.70E-02 | 2.52E-02 | 6.67E+00 | 0.00E+00 |
| **Raccoon - 2** | **Mammalian TEQ** | 3.78E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.66E-02 | 3.01E-02 | 8.89E-01 | 3.57E-02 | 8.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-01 | 0.00E+00 | 4.67E-02 |

**Table F3-9d**
**Risk Calculations Based on Modeled Tissue and Dietary Toxicity Reference Values for Riparian Receptors**

**Lower Assessment Area: Total TEQ**

**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Total Dose (ng/kg-day) | | | Toxicity Reference Values (ng/kg-day) | Hazard Quotients | | |
|---|---|---|---|---|---|---|---|---|
| | | Soil + Prey | Sediment + Prey | Soil + Sediment + Prey | NOAEL TRV | Soil NOAEL HQ | Sediment NOAEL HQ | NOAEL HQ |
| **Spotted Sandpiper - 1** | **Avian TEQ** | 1.44E+02 | 2.24E+01 | 1.66E+02 | 1.45E+02 | 1E+00 | 2E-01 | **1E+00** |
| **GBH** | **Avian TEQ** | 1.55E-01 | 8.47E+01 | 8.49E+01 | 1.45E+02 | 1E-03 | 6E-01 | 6E-01 |
| **Mink - 1** | **Mammalian TEQ** | 2.42E-01 | 1.43E+00 | 1.67E+00 | 2.50E+01 | 1E-02 | 6E-02 | 7E-02 |
| **Mink - 2** | **Mammalian TEQ** | 3.30E-02 | 4.08E+00 | 4.11E+00 | 2.50E+01 | 1E-03 | 2E-01 | 2E-01 |
| **Raccoon - 1** | **Mammalian TEQ** | 7.18E+00 | 1.85E-01 | 7.37E+00 | 2.50E+01 | 3E-01 | 7E-03 | 3E-01 |
| **Raccoon - 2** | **Mammalian TEQ** | 5.66E-02 | 1.95E+00 | 2.01E+00 | 2.50E+01 | 2E-03 | 8E-02 | 8E-02 |

**Notes:**
COPC: constituent of potential concern
dw: dry weight
EPC: exposure point concentration
kg: kilogram
kg dw/kg-day: kilograms dry weight per kilograms per day
ng/kg: nanogram per kilogram
NOAEL: no observed adverse effect level
OU: Operable Unit
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent
TRV: toxicity reference value
**Bold indicates hazard quotients greater than 1**

**Table F3-9e**
**Risk Calculations Based on Modeled Tissue and Tissue Toxicity Reference Values**
**Lower Assessment Area: Total TEQ**
**Anniston PCB Site, Anniston, Alabama**

| Aquatic Receptors | COPC | Sediment EPC | Modeled Fish Tissue Fish EPC | Toxicity Reference Values (ng/kg dw) | | Hazard Quotients (unitless) | |
|---|---|---|---|---|---|---|---|
| | | | (ng/kg dw) | Fish NOAEL (Mean Lipid) | Fish NOAEL (Max Lipid) | Fish (Mean Lipid) | Fish (Max Lipid) |
| **All Fish** | **Fish TEQ** | 1.4E+01 | 6.49E+01 | 2.6E+02 | 5.7E+02 | 2.5E-01 | 1.1E-01 |
| **Forage Fish** | **Fish TEQ** | 1.4E+01 | 7.60E+01 | 2.6E+02 | 5.7E+02 | 3.0E-01 | 1.3E-01 |
| **Bottom Fish** | **Fish TEQ** | 1.4E+01 | 5.27E+01 | 2.6E+02 | 5.7E+02 | 2.1E-01 | 9.2E-02 |
| **Predator Fish** | **Fish TEQ** | 1.4E+01 | 2.57E+01 | 2.6E+02 | 5.7E+02 | 1.0E-01 | 4.5E-02 |

**Notes:**
COPC: constituent of potential concern
EPC: exposure point concentration
NOAEL: no observed adverse effect level
ng/kg dw: nanogram per kilogram dry weight
TEQ: 2,3,7,8-polychlorinated dibenzo-p-dioxin toxic equivalent

# APPENDIX G

## Indicators of Recovery in the Stream Minnow, *Campostoma oligolepis*, Inhabiting Snow Creek, Calhoun County, Alabama

# Indicators of recovery in the stream minnow, *Campostoma oligolepis*, inhabiting Snow Creek, Calhoun County, Alabama.

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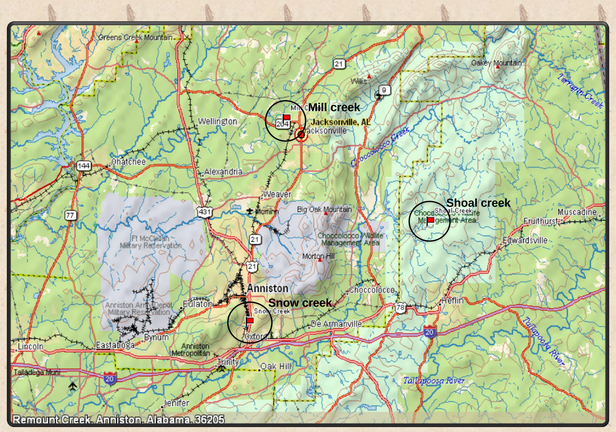
## Abstract

Snow creek is a perennial tributary of Choccolocco creek, Oxford, Alabama. In the 1970s, Snow creek was polluted by industrial heavy metals and PCBs. In those years, high concentrations of contaminants resulted in the death and/or migration of many aquatic organisms from the creek. Cleanup efforts began in the 1980s and the water conditions in the creek are better, nonetheless, mercury (Hg) and PCBs can still be measured in stream soils. A diversity of aquatic organisms currently inhabit the creek, including many sensitive species. We have been examining oxygen consumption rates in fishes currently inhabiting Snow creek and other unimpacted regional streams. Our goal was to determine if fishes inhabiting Snow creek had altered metabolic rates, indicating potential stress. Fish examined from unimpacted streams included those inhabiting Shoal creek, a relatively pristine site in the Talladega National Forest, AL, and Mill creek, a relatively unimpacted site in Jacksonville, AL. Weight specific metabolic rates for fishes inhabiting Snow, Shoal, and Mill creeks, respectively, range from 200-400 $mgO_2/kg*hr$. Data is variable at all three sites and no apparent trends have been determined at this time. We have also been examining gill malformations using SEM. Previous studies have demonstrated gill damage and osmoregulatory stress in fishes chronically exposed to Hg and PCBs. In our study, alterations in gill morphology of fishes from Snow creek are inconclusive. We hypothesize that, although contaminants may linger, the stream appears suitable for aquatic life, as indicated by the number of species currently inhabiting the stream. Fishes in the stream show no apparent physiological stress, further indicating the stream may be recovering.

Stoneroller, *Campostoma oligolepis*

## Introduction

Snow creek is a tributary within the Choccolocco creek watershed that was victim to industrial pollution in the 1970s. Both PCBs and heavy metals were once found in high concentrations in the creek and surrounding soils. During the height of pollution no species were known to inhabit the creek. Since that time, release of contaminants by responsible industries has ceased. Monitoring of the creek chemistry including water quality and soil sampling has remained constant since the time of impact, although recovery of organisms living within the system has not been evaluated. 30 years later, we are interested in assessing recovery of fishes inhabiting the creek. Current community populations show an increase in species diversity similar to other undisturbed regional streams indicating the stream is at least inhabitable. Recovery will be determined through comparison of metabolic rates and gill morphology. Metabolism, as determined by oxygen consumption rates has been shown to increase in response to exposure to heavy metals and PCBs. Alterations in gill morphology has also been shown in fishes exposed to these contaminants resulting in osmoregulatory stress. The goal of this project is to determine the extent of recovery seen in fishes inhabiting a historically impacted site.




Map showing relative location of three sites.

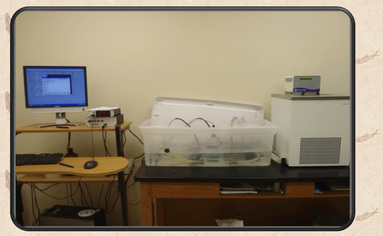
## Methods

Stonerollers were collected from Snow creek and two other regional streams. Mill creek is a relatively undisturbed site in Jacksonville, AL. Shoal creek is a relatively undisturbed site located in the Talladega National Forest. A backpack electroshocker was used as the method of collection. Oxygen consumption rates were determined using a closed-loop respirometer (Loligo Systems)

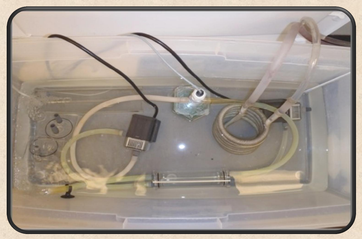
Snow creek

Mill creek

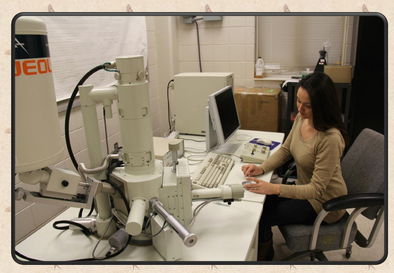
Shoal creek



Computer, respirometry system, and temperature control unit



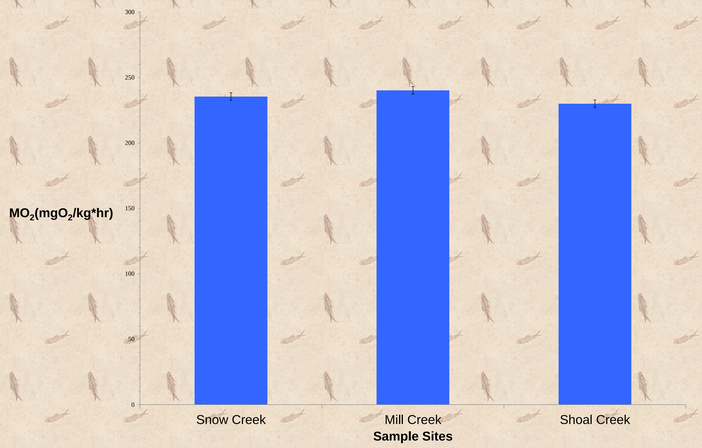
Superior view of closed-loop respirometer.

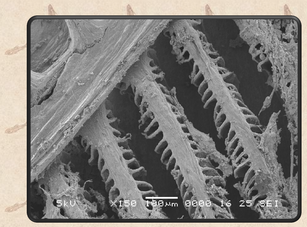


Scanning Electron Microscope

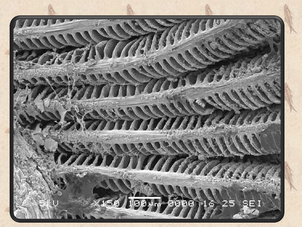
## Results

Oxygen consumption rates were not significantly different between Snow Creek and the two reference sites. Thus metabolic expenditure in fishes from Snow creek is similar to those inhabiting “healthy” streams. Examination of gill morphology does not indicate damage associated with exposure to PCBs or heavy metals.

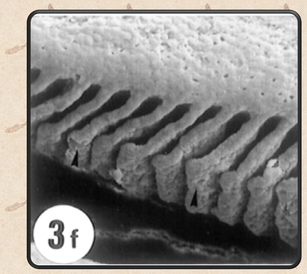


Snow creek gills at 150x magnification



Mill creek gills at 150x magnification




Swelling of lamellae in fish exposed to heavy metals at 150x
(Ribeiro et al., 2000)

Lamellae fusion and hyperplasia in fish exposed to heavy metals at 700x
(Ribeiro et al., 2000)

## Conclusion

Metabolic data and gill morphology examined in this study as well as other indicators such as IBIs suggest the Snow creek has made some recovery.